0100814

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

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 11/22/11
INITIAL/DATE

COMMENTS:

SDG J01313 SAF RC-075

Rad only Chem only ☑ Rad & Chem

☑ Complete Partial

Waste Site: 100-D-8 Outfall (Below OHWM)

RECEIVED
JAN 13 2012
EDMC

Analytical Data Package Prepared For

Washington Closure Hanford

RECEIVED
NOV 2011

Radiochemical Analysis By

TestAmerica

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

Assigned Laboratory Code: TARL

Data Package Contains 153 *Pages*

Report No.: 49411

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.
J01313	RC-075	J1CYL8	J1J310440-1	MNLC41AJ	9MNLC410	1305048
		J1CYL8	J1J310440-1	MNLC41AD	9MNLC410	1305049
		J1CYL8	J1J310440-1	MNLC41AG	9MNLC410	1305054
		J1CYL8	J1J310440-1	MNLC41AE	9MNLC410	1305055
		J1CYL8	J1J310440-1	MNLC41AH	9MNLC410	1305056
		J1CYL8	J1J310440-1	MNLC41AK	9MNLC410	1305058
		J1CYL8	J1J310440-1	MNLC41AA	9MNLC410	1305066
		J1CYL8	J1J310440-1	MNLC42AF	9MNLC420	1318074
		J1CYL8	J1J310440-1	MNLC42AC	9MNLC420	1318082
		J1CYL9	J1J310440-2	MNLC51AJ	9MNLC510	1305048
		J1CYL9	J1J310440-2	MNLC51AD	9MNLC510	1305049
		J1CYL9	J1J310440-2	MNLC51AG	9MNLC510	1305054
		J1CYL9	J1J310440-2	MNLC51AE	9MNLC510	1305055
		J1CYL9	J1J310440-2	MNLC51AH	9MNLC510	1305056
		J1CYL9	J1J310440-2	MNLC51AK	9MNLC510	1305058
		J1CYL9	J1J310440-2	MNLC51AA	9MNLC510	1305066
		J1CYL9	J1J310440-2	MNLC52AF	9MNLC520	1318074
		J1CYL9	J1J310440-2	MNLC52AC	9MNLC520	1318082
		J1CYM0	J1J310440-3	MNLC61AJ	9MNLC610	1305048
		J1CYM0	J1J310440-3	MNLC61AD	9MNLC610	1305049
		J1CYM0	J1J310440-3	MNLC61AG	9MNLC610	1305054
		J1CYM0	J1J310440-3	MNLC61AE	9MNLC610	1305055
		J1CYM0	J1J310440-3	MNLC61AH	9MNLC610	1305056
		J1CYM0	J1J310440-3	MNLC61AK	9MNLC610	1305058
		J1CYM0	J1J310440-3	MNLC61AA	9MNLC610	1305066
		J1CYM0	J1J310440-3	MNLC62AF	9MNLC620	1318074

Report No.: 49411

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SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
J01313	RC-075	J1CYM0	J1J310440-3	MNLC62AC	9MNLC620	1318082
		J1CYM1	J1J310440-4	MNLC71AJ	9MNLC710	1305048
		J1CYM1	J1J310440-4	MNLC71AD	9MNLC710	1305049
		J1CYM1	J1J310440-4	MNLC71AG	9MNLC710	1305054
		J1CYM1	J1J310440-4	MNLC71AE	9MNLC710	1305055
		J1CYM1	J1J310440-4	MNLC71AH	9MNLC710	1305056
		J1CYM1	J1J310440-4	MNLC71AK	9MNLC710	1305058
		J1CYM1	J1J310440-4	MNLC71AA	9MNLC710	1305066
		J1CYM1	J1J310440-4	MNLC72AF	9MNLC720	1318074
		J1CYM1	J1J310440-4	MNLC72AC	9MNLC720	1318082
		J1CYM2	J1J310440-5	MNLC81AJ	9MNLC810	1305048
		J1CYM2	J1J310440-5	MNLC81AD	9MNLC810	1305049
		J1CYM2	J1J310440-5	MNLC81AG	9MNLC810	1305054
		J1CYM2	J1J310440-5	MNLC81AE	9MNLC810	1305055
		J1CYM2	J1J310440-5	MNLC81AH	9MNLC810	1305056
		J1CYM2	J1J310440-5	MNLC81AK	9MNLC810	1305058
		J1CYM2	J1J310440-5	MNLC81AA	9MNLC810	1305066
		J1CYM2	J1J310440-5	MNLC82AF	9MNLC820	1318074
		J1CYM2	J1J310440-5	MNLC82AC	9MNLC820	1318082
		J1CYM3	J1J310440-6	MNLC91AJ	9MNLC910	1305048
		J1CYM3	J1J310440-6	MNLC91AD	9MNLC910	1305049
		J1CYM3	J1J310440-6	MNLC91AG	9MNLC910	1305054
		J1CYM3	J1J310440-6	MNLC91AE	9MNLC910	1305055
		J1CYM3	J1J310440-6	MNLC91AH	9MNLC910	1305056
		J1CYM3	J1J310440-6	MNLC91AK	9MNLC910	1305058
		J1CYM3	J1J310440-6	MNLC91AA	9MNLC910	1305066
		J1CYM3	J1J310440-6	MNLC92AF	9MNLC920	1318074
		J1CYM3	J1J310440-6	MNLC92AC	9MNLC920	1318082
		J1CYM4	J1J310440-7	MNLDA1AJ	9MNLDA10	1305048
		J1CYM4	J1J310440-7	MNLDA1AD	9MNLDA10	1305049
		J1CYM4	J1J310440-7	MNLDA1AG	9MNLDA10	1305054
		J1CYM4	J1J310440-7	MNLDA1AE	9MNLDA10	1305055
		J1CYM4	J1J310440-7	MNLDA1AH	9MNLDA10	1305056
		J1CYM4	J1J310440-7	MNLDA1AK	9MNLDA10	1305058
		J1CYM4	J1J310440-7	MNLDA1AA	9MNLDA10	1305066
		J1CYM4	J1J310440-7	MNLDA2AF	9MNLDA20	1318074
		J1CYM4	J1J310440-7	MNLDA2AC	9MNLDA20	1318082
		J1CYM5	J1J310440-8	MNLDD1AJ	9MNLDD10	1305048

Report No.: 49411

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SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
J01313	RC-075	J1CYM5	J1J310440-8	MNLDD1AD	9MNLDD10	1305049
		J1CYM5	J1J310440-8	MNLDD1AG	9MNLDD10	1305054
		J1CYM5	J1J310440-8	MNLDD1AE	9MNLDD10	1305055
		J1CYM5	J1J310440-8	MNLDD1AH	9MNLDD10	1305056
		J1CYM5	J1J310440-8	MNLDD1AK	9MNLDD10	1305058
		J1CYM5	J1J310440-8	MNLDD1AA	9MNLDD10	1305066
		J1CYM5	J1J310440-8	MNLDD2AF	9MNLDD20	1318074
		J1CYM5	J1J310440-8	MNLDD3AC	9MNLDD30	1318082
		J1CYM6	J1J310440-9	MNLDE1AJ	9MNLDE10	1305048
		J1CYM6	J1J310440-9	MNLDE1AD	9MNLDE10	1305049
		J1CYM6	J1J310440-9	MNLDE1AG	9MNLDE10	1305054
		J1CYM6	J1J310440-9	MNLDE1AE	9MNLDE10	1305055
		J1CYM6	J1J310440-9	MNLDE1AH	9MNLDE10	1305056
		J1CYM6	J1J310440-9	MNLDE1AK	9MNLDE10	1305058
		J1CYM6	J1J310440-9	MNLDE1AA	9MNLDE10	1305066
		J1CYM6	J1J310440-9	MNLDE2AF	9MNLDE20	1318074
		J1CYM6	J1J310440-9	MNLDE2AC	9MNLDE20	1318082
		J1CYM7	J1J310440-10	MNLDF1AJ	9MNLDF10	1305048
		J1CYM7	J1J310440-10	MNLDF1AD	9MNLDF10	1305049
		J1CYM7	J1J310440-10	MNLDF1AG	9MNLDF10	1305054
		J1CYM7	J1J310440-10	MNLDF1AE	9MNLDF10	1305055
		J1CYM7	J1J310440-10	MNLDF1AH	9MNLDF10	1305056
		J1CYM7	J1J310440-10	MNLDF1AK	9MNLDF10	1305058
		J1CYM7	J1J310440-10	MNLDF1AA	9MNLDF10	1305066
		J1CYM7	J1J310440-10	MNLDF2AF	9MNLDF20	1318074
		J1CYM7	J1J310440-10	MNLDF2AC	9MNLDF20	1318082
	RC-075	J1CYM8	J1J310440-11	MNLDG1AJ	9MNLDG10	1305048
		J1CYM8	J1J310440-11	MNLDG1AD	9MNLDG10	1305049
		J1CYM8	J1J310440-11	MNLDG1AG	9MNLDG10	1305054
		J1CYM8	J1J310440-11	MNLDG1AE	9MNLDG10	1305055
		J1CYM8	J1J310440-11	MNLDG1AH	9MNLDG10	1305056
		J1CYM8	J1J310440-11	MNLDG1AK	9MNLDG10	1305058
		J1CYM8	J1J310440-11	MNLDG1AA	9MNLDG10	1305066
		J1CYM8	J1J310440-11	MNLDG2AF	9MNLDG20	1318074
		J1CYM8	J1J310440-11	MNLDG2AC	9MNLDG20	1318082
		J1CYM9	J1J310440-12	MNLDH1AJ	9MNLDH10	1305048
		J1CYM9	J1J310440-12	MNLDH1AD	9MNLDH10	1305049
		J1CYM9	J1J310440-12	MNLDH1AG	9MNLDH10	1305054

Report No.: 49411

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SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
J01313	RC-075	J1CYM9	J1J310440-12	MNLDH1AE	9MNLDH10	1305055
		J1CYM9	J1J310440-12	MNLDH1AH	9MNLDH10	1305056
		J1CYM9	J1J310440-12	MNLDH1AK	9MNLDH10	1305058
		J1CYM9	J1J310440-12	MNLDH1AA	9MNLDH10	1305066
		J1CYM9	J1J310440-12	MNLDH2AF	9MNLDH20	1318074
		J1CYM9	J1J310440-12	MNLDH2AC	9MNLDH20	1318082
		J1CYN0	J1J310440-13	MNLDJ1AJ	9MNLDJ10	1305048
		J1CYN0	J1J310440-13	MNLDJ1AD	9MNLDJ10	1305049
		J1CYN0	J1J310440-13	MNLDJ1AG	9MNLDJ10	1305054
		J1CYN0	J1J310440-13	MNLDJ1AE	9MNLDJ10	1305055
		J1CYN0	J1J310440-13	MNLDJ1AH	9MNLDJ10	1305056
		J1CYN0	J1J310440-13	MNLDJ1AK	9MNLDJ10	1305058
		J1CYN0	J1J310440-13	MNLDJ1AA	9MNLDJ10	1305066
		J1CYN0	J1J310440-13	MNLDJ2AF	9MNLDJ20	1318074
		J1CYN0	J1J310440-13	MNLDJ2AC	9MNLDJ20	1318082

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Washington Hanford Closure
2620 Fermi Avenue
Richland, WA 99354

TestAmerica Laboratories, Inc.

November 21, 2011

Attention: Joan Kessner

SAF Number	:	RC-075
Date SDG Closed	:	October 31, 2011
Number of Samples	:	Thirteen (13)
Sample Type	:	Soil
SDG Number	:	J01313
Data Deliverable	:	15– Day / Summary

CASE NARRATIVE

I. Introduction

On October 31, 2011, thirteen soil samples were received at TestAmerica for radiochemical 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
J1CYL8	MNLC4	SOIL	10/31/11
J1CYL9	MNLC5	SOIL	10/31/11
J1CYM0	MNLC6	SOIL	10/31/11
J1CYM1	MNLC7	SOIL	10/31/11
J1CYM2	MNLC8	SOIL	10/31/11
J1CYM3	MNLC9	SOIL	10/31/11
J1CYM4	MNLDA	SOIL	10/31/11
J1CYM5	MNLD0	SOIL	10/31/11
J1CYM6	MNLDE	SOIL	10/31/11
J1CYM7	MNLDF	SOIL	10/31/11
J1CYM8	MNLDG	SOIL	10/31/11
J1CYM9	MNLDH	SOIL	10/31/11
J1CYN0	MNLDJ	SOIL	10/31/11

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:

Alpha Spectroscopy
Plutonium-238, -239/240 by method RL-ALP-002
Uranium 234, 235 and 238 by method RL-ALP-015
Gas Proportional Counting
Strontium-90 by method RL-GPC-003
Gamma Spectroscopy
Gamma Spec by method RL-GAM-001
Liquid Scintillation Counting
Technetium-99 by method RL-LSC-013
Tritium by method RL-LSC-005
Carbon-14 by method RL-LSC-008
Nickel-63 by method RL-LCS-017
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

Alpha Spectroscopy
Plutonium-238, -239/240 by method RL-ALP-002:
When the original batch was counted the expected peaks were not found on the spectra. The samples were re-analyzed for acceptable results. Except as noted; the LCS, batch blank, samples and sample duplicate (J1CYM6) results are within contractual requirements.

Uranium 234, 235 and 238 by method RL-ALP-015:
When the original batch was counted the expected peaks were not found on the spectra. The samples were re-analyzed for acceptable results except for sample J1CYM5 which had a slightly high tracer yield. The sample was re-counted for an acceptable tracer yield. Except as noted; the LCS, batch blank, samples and sample duplicate (J1CYM5) results are within contractual requirements.

Gas Proportional Counting
Strontium-90 by method RL-GPC-003:

The LCS, batch blank, samples and sample duplicate (J1CYL9) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec by method RL-GAM-001:

The CRDL was not met for some of the analytes. Except as noted, the LCS, batch blank, samples and sample duplicate (J1CYL8) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by method RL-LSC-013:

The LCS, batch blank, samples, sample duplicate (J1CYM0), and sample matrix spike (J1CYM1) results are within contractual requirements.

Tritium by method RL-LSC-005:

The LCS, batch blank, samples and sample duplicate (J1CYM3) results are within contractual requirements.

Carbon-14 by method RL-LSC-008:

The LCS, batch blank, samples and sample duplicate (J1CYM4) results are within contractual requirements.

Nickel-63 by method RL-LCS-017:

The LCS, batch blank, samples and sample duplicate (J1CYM2) results are within contractual requirements.

Chemical Analysis

Hexavalent Chromium by EPA method 7196A

The matrix spike recovered low at 70%. The post digestive matrix spike recovered at 90% and the insoluble matrix spike recovered at 108%. This implies a reducing capacity in the sample, but not enough to exhaust the more copious insoluble matrix spike. The sample and sample duplicate (J1CYL8) agreement is outside the acceptance limits. This may be attributed to the inhomogeniety of the matrix. Except as noted; the LCS, batch blank, samples, sample duplicate (J1CYL8) and sample matrix spike (J1CYL8) results are within contractual requirements.

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

Reviewed and approved:

Rhonda Wagar
Project Manager

Drinking Water Method Cross References

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

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

Uncertainty Estimation

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

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

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

Report Definitions

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

Sample Results Summary

Date: 21-Nov-11

TestAmerica TARL

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

Report No. : 49411

SDG No: J01313

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
1305066 88 EA									
J1CYL8									
	MNLC41AA	HEXCHROME	2.36E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	MNLC41AN	HEXCHROME	4.53E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	3.50E-01	63.0
J1CYL9									
	MNLC51AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1CYM0									
	MNLC61AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1CYM1									
	MNLC71AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1CYM2									
	MNLC81AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1CYM3									
	MNLC91AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1CYM4									
	MNLDA1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1CYM5									
	MNLDD1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1CYM6									
	MNLDE1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1CYM7									
	MNLDF1AA	HEXCHROME	7.27E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
J1CYM8									
	MNLDG1AA	HEXCHROME	3.79E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
J1CYM9									
	MNLDH1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1CYN0									
	MNLDJ1AA	HEXCHROME	7.59E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
1318074 PUISO_PLATE_AEA									
J1CYL8									
	MNLC42AF	PU-238	-5.14E-03 +- 6.9E-02	U	pCi/g	83%	1.54E-01	1.00E+00	
		PU239/40	6.66E-02 +- 9.8E-02	U	pCi/g	83%	1.28E-01	1.00E+00	
J1CYL9									
	MNLC52AF	PU-238	-4.94E-03 +- 9.9E-02	U	pCi/g	63%	2.06E-01	1.00E+00	
		PU239/40	-7.40E-03 +- 9.9E-02	U	pCi/g	63%	2.23E-01	1.00E+00	
J1CYM0									
	MNLC62AF	PU-238	0.00E+00 +- 6.5E-02	U	pCi/g	100%	1.21E-01	1.00E+00	
		PU239/40	-3.24E-03 +- 6.5E-02	U	pCi/g	100%	1.35E-01	1.00E+00	
J1CYM1									

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Sample Results Summary

Date: 21-Nov-11

TestAmerica TARL

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

Report No. : 49411

SDG No: J01313

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
1318074 PUISO_PLATE_AEA									
J1CYM1									
	MNLC72AF	PU-238	-2.72E-03 +- 5.4E-02	U	pCi/g	100%	1.13E-01	1.00E+00	
		PU239/40	7.59E-02 +- 9.5E-02	U	pCi/g	100%	1.30E-01	1.00E+00	
J1CYM2									
	MNLC82AF	PU-238	3.43E-02 +- 6.9E-02	U	pCi/g	98%	1.29E-01	1.00E+00	
		PU239/40	0.00E+00 +- 6.9E-02	U	pCi/g	98%	1.29E-01	1.00E+00	
J1CYM3									
	MNLC92AF	PU-238	-1.43E-03 +- 5.7E-02	U	pCi/g	100%	1.07E-01	1.00E+00	
		PU239/40	-4.28E-03 +- 5.7E-02	U	pCi/g	100%	1.28E-01	1.00E+00	
J1CYM4									
	MNLDA2AF	PU-238	0.00E+00 +- 8.1E-02	U	pCi/g	84%	1.52E-01	1.00E+00	
		PU239/40	2.03E-01 +- 1.9E-01		pCi/g	84%	1.52E-01	1.00E+00	
J1CYM5									
	MNLDD2AF	PU-238	3.80E-02 +- 8.0E-02	U	pCi/g	84%	1.50E-01	1.00E+00	
		PU239/40	3.99E-02 +- 8.1E-02	U	pCi/g	84%	1.50E-01	1.00E+00	
J1CYM6									
	MNLDE2AF	PU-238	-1.61E-03 +- 6.5E-02	U	pCi/g	95%	1.21E-01	1.00E+00	
		PU239/40	-4.84E-03 +- 6.5E-02	U	pCi/g	95%	1.45E-01	1.00E+00	
J1CYM6 DUP									
	MNLDE1AM	PU-238	-2.89E-03 +- 5.8E-02	U	pCi/g	100%	1.21E-01	1.00E+00	-56.8
		PU239/40	-1.45E-03 +- 5.8E-02	U	pCi/g	100%	1.08E-01	1.00E+00	-108.0
J1CYM7									
	MNLDF2AF	PU-238	3.29E-02 +- 6.6E-02	U	pCi/g	95%	1.23E-01	1.00E+00	
		PU239/40	2.96E-02 +- 6.6E-02	U	pCi/g	95%	1.37E-01	1.00E+00	
J1CYM8									
	MNLDG2AF	PU-238	-2.77E-03 +- 5.5E-02	U	pCi/g	98%	1.16E-01	1.00E+00	
		PU239/40	5.11E-02 +- 7.9E-02	U	pCi/g	98%	1.25E-01	1.00E+00	
J1CYM9									
	MNLDH2AF	PU-238	0.00E+00 +- 6.7E-02	U	pCi/g	99%	1.26E-01	1.00E+00	
		PU239/40	0.00E+00 +- 6.7E-02	U	pCi/g	99%	1.26E-01	1.00E+00	
J1CYN0									
	MNLDJ2AF	PU-238	-1.50E-03 +- 6.0E-02	U	pCi/g	94%	1.12E-01	1.00E+00	
		PU239/40	-4.50E-03 +- 6.0E-02	U	pCi/g	94%	1.35E-01	1.00E+00	
1318082 UISO_IE_PLATE_AEA									
J1CYL8									
	MNLC42AC	U-234	4.49E-01 +- 2.4E-01		pCi/g	95%	1.63E-01	1.00E+00	
		U-235	4.12E-02 +- 7.4E-02	U	pCi/g	95%	1.46E-01	1.00E+00	
		U-238	4.77E-01 +- 2.5E-01		pCi/g	95%	1.55E-01	1.00E+00	

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Sample Results Summary

Date: 21-Nov-11

TestAmerica TARL

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

Report No. : 49411

SDG No: J01313

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
1318082 UISO_IE_PLATE_AEA									
	J1CYL9								
	MNLC52AC	U-234	1.34E-01 +- 1.2E-01	U	pCi/g	104%	1.46E-01	1.00E+00	
		U-235	-1.22E-03 +- 4.9E-02	U	pCi/g	104%	9.14E-02	1.00E+00	
		U-238	1.61E-01 +- 1.3E-01		pCi/g	104%	1.38E-01	1.00E+00	
	J1CYM0								
	MNLC62AC	U-234	1.41E-01 +- 1.2E-01		pCi/g	98%	8.79E-02	1.00E+00	
		U-235	0.00E+00 +- 4.7E-02	U	pCi/g	98%	8.79E-02	1.00E+00	
		U-238	1.64E-01 +- 1.3E-01		pCi/g	98%	8.79E-02	1.00E+00	
	J1CYM1								
	MNLC72AC	U-234	4.46E-01 +- 2.3E-01		pCi/g	91%	1.04E-01	1.00E+00	
		U-235	2.49E-02 +- 5.0E-02	U	pCi/g	91%	9.34E-02	1.00E+00	
		U-238	4.71E-01 +- 2.4E-01		pCi/g	91%	1.04E-01	1.00E+00	
	J1CYM2								
	MNLC82AC	U-234	2.82E-01 +- 1.8E-01		pCi/g	95%	1.08E-01	1.00E+00	
		U-235	5.17E-02 +- 7.4E-02	U	pCi/g	95%	9.69E-02	1.00E+00	
		U-238	4.39E-01 +- 2.3E-01		pCi/g	95%	9.69E-02	1.00E+00	
	J1CYM3								
	MNLC92AC	U-234	9.54E-02 +- 9.9E-02	U	pCi/g	90%	9.06E-02	1.00E+00	
		U-235	4.83E-02 +- 6.9E-02	U	pCi/g	90%	9.06E-02	1.00E+00	
		U-238	1.67E-01 +- 1.3E-01		pCi/g	90%	1.01E-01	1.00E+00	
	J1CYM4								
	MNLDA2AC	U-234	4.65E-01 +- 2.4E-01		pCi/g	89%	1.09E-01	1.00E+00	
		U-235	7.79E-02 +- 9.1E-02	U	pCi/g	89%	9.74E-02	1.00E+00	
		U-238	4.65E-01 +- 2.4E-01		pCi/g	89%	1.09E-01	1.00E+00	
	J1CYM5								
	MNLDD3AC	U-234	7.98E-01 +- 3.4E-01		pCi/g	91%	1.35E-01	1.00E+00	
		U-235	4.42E-02 +- 7.7E-02	U	pCi/g	91%	1.46E-01	1.00E+00	
		U-238	7.41E-01 +- 3.2E-01		pCi/g	91%	1.46E-01	1.00E+00	
	J1CYM5 DUP								
	MNLDD1AM	U-234	6.16E-01 +- 2.8E-01		pCi/g	93%	9.36E-02	1.00E+00	25.7
		U-235	2.52E-02 +- 5.2E-02	U	pCi/g	93%	8.66E-02	1.00E+00	54.9
		U-238	5.65E-01 +- 2.7E-01		pCi/g	93%	8.66E-02	1.00E+00	27.0
	J1CYM6								
	MNLDE2AC	U-234	2.84E-01 +- 1.9E-01		pCi/g	89%	1.57E-01	1.00E+00	
		U-235	-9.45E-03 +- 5.4E-02	U	pCi/g	89%	1.47E-01	1.00E+00	
		U-238	2.89E-01 +- 1.9E-01		pCi/g	89%	1.36E-01	1.00E+00	
	J1CYM7								
	MNLDF2AC	U-234	6.64E-01 +- 2.9E-01		pCi/g	95%	1.55E-01	1.00E+00	

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Sample Results Summary

Date: 21-Nov-11

TestAmerica TARL

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

Report No. : 49411

SDG No: J01313

Batch / Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
1318082 UISO_IE_PLATE_AEA								
J1CYM7								
MNLDF2AC	U-235	-1.26E-03 +- 5.0E-02	U	pCi/g	95%	9.41E-02	1.00E+00	
	U-238	2.41E-01 +- 1.7E-01		pCi/g	95%	1.42E-01	1.00E+00	
J1CYM8								
MNLDG2AC	U-234	6.45E-01 +- 2.7E-01		pCi/g	107%	8.64E-02	1.00E+00	
	U-235	4.61E-02 +- 6.6E-02	U	pCi/g	107%	8.64E-02	1.00E+00	
	U-238	3.23E-01 +- 1.8E-01		pCi/g	107%	8.64E-02	1.00E+00	
J1CYM9								
MNLDH2AC	U-234	3.87E-01 +- 2.1E-01		pCi/g	92%	1.02E-01	1.00E+00	
	U-235	2.43E-02 +- 4.9E-02	U	pCi/g	92%	9.12E-02	1.00E+00	
	U-238	2.39E-01 +- 1.6E-01		pCi/g	92%	1.10E-01	1.00E+00	
J1CYN0								
MNLDJ2AC	U-234	4.15E-01 +- 2.2E-01		pCi/g	89%	9.19E-02	1.00E+00	
	U-235	0.00E+00 +- 4.9E-02	U	pCi/g	89%	9.19E-02	1.00E+00	
	U-238	3.65E-01 +- 2.0E-01		pCi/g	89%	1.02E-01	1.00E+00	
1305048 GAMMA_GS								
J1CYL8								
MNLC41AJ	AMERICIUM 241	-9.15E-02 +- 8.4E-02	U	pCi/g		1.38E-01		
	CO-60	6.99E-02 +- 2.8E-02	U	pCi/g		4.46E-02	5.00E-02	
	CS-137	4.43E-01 +- 6.9E-02		pCi/g		3.23E-02	1.00E-01	
	EU-152	7.95E-01 +- 1.4E-01		pCi/g		8.80E-02	1.00E-01	
	EU-154	8.49E-02 +- 6.2E-02	U	pCi/g		1.14E-01	1.00E-01	
	EU-155	7.77E-02 +- 6.8E-02	U	pCi/g		1.16E-01	1.00E-01	
J1CYL8 DUP								
MNLC41AL	AMERICIUM 241	1.51E-01 +- 1.9E-01	U	pCi/g		3.19E-01		819.6
	CO-60	8.12E-02 +- 2.9E-02	U	pCi/g		5.11E-02	5.00E-02	15.0
	CS-137	4.79E-01 +- 7.6E-02		pCi/g		3.32E-02	1.00E-01	7.9
	EU-152	8.17E-01 +- 1.5E-01		pCi/g		8.88E-02	1.00E-01	2.7
	EU-154	1.01E-01 +- 7.2E-02	U	pCi/g		1.32E-01	1.00E-01	16.9
	EU-155	2.12E-02 +- 6.2E-02	U	pCi/g		1.05E-01	1.00E-01	114.1
J1CYL9								
MNLC51AJ	AMERICIUM 241	-3.95E-02 +- 8.7E-02	U	pCi/g		1.41E-01		
	CO-60	6.85E-03 +- 1.4E-02	U	pCi/g		2.61E-02	5.00E-02	
	CS-137	1.77E-02 +- 1.4E-02	U	pCi/g		2.56E-02	1.00E-01	
	EU-152	3.28E-02 +- 3.4E-02	U	pCi/g		6.07E-02	1.00E-01	
	EU-154	-1.80E-03 +- 4.8E-02	U	pCi/g		8.45E-02	1.00E-01	
	EU-155	3.81E-02 +- 3.7E-02	U	pCi/g		6.50E-02	1.00E-01	
J1CYM0								

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Sample Results Summary

Date: 21-Nov-11

TestAmerica TARL

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

Report No. : 49411

SDG No: J01313

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
1305048 GAMMA_GS									
J1CYM0									
	MNLC61AJ	AMERICIUM 241	-1.87E-02 +- 3.9E-02	U	pCi/g		6.41E-02		
		CO-60	-5.01E-03 +- 2.1E-02	U	pCi/g		3.66E-02	5.00E-02	
		CS-137	-1.75E-02 +- 2.3E-02	U	pCi/g		3.86E-02	1.00E-01	
		EU-152	7.46E-03 +- 7.8E-02	U	pCi/g		9.78E-02	1.00E-01	
		EU-154	-1.94E-02 +- 6.5E-02	U	pCi/g		1.11E-01	1.00E-01	
		EU-155	5.94E-03 +- 5.6E-02	U	pCi/g		9.40E-02	1.00E-01	
J1CYM1									
	MNLC71AJ	AMERICIUM 241	-2.75E-02 +- 8.7E-02	U	pCi/g		1.46E-01		
		CO-60	9.11E-01 +- 1.2E-01		pCi/g		2.95E-02	5.00E-02	
		CS-137	6.51E-01 +- 1.0E-01		pCi/g		3.92E-02	1.00E-01	
		EU-152	8.14E-01 +- 1.5E-01		pCi/g		1.18E-01	1.00E-01	
		EU-154	1.28E-01 +- 7.0E-02	U	pCi/g		1.30E-01	1.00E-01	
		EU-155	-1.84E-02 +- 7.2E-02	U	pCi/g		1.19E-01	1.00E-01	
J1CYM2									
	MNLC81AJ	AMERICIUM 241	-1.26E-02 +- 7.6E-02	U	pCi/g		1.25E-01		
		CO-60	1.87E-02 +- 2.4E-02	U	pCi/g		4.60E-02	5.00E-02	
		CS-137	1.04E-01 +- 3.6E-02		pCi/g		3.78E-02	1.00E-01	
		EU-152	3.09E-01 +- 9.8E-02		pCi/g		1.10E-01	1.00E-01	
		EU-154	1.37E-02 +- 7.1E-02	U	pCi/g		1.28E-01	1.00E-01	
		EU-155	3.30E-02 +- 5.6E-02	U	pCi/g		9.68E-02	1.00E-01	
J1CYM3									
	MNLC91AJ	AMERICIUM 241	-2.23E-02 +- 4.0E-02	U	pCi/g		6.71E-02		
		CO-60	-9.12E-03 +- 2.2E-02	U	pCi/g		3.73E-02	5.00E-02	
		CS-137	3.13E-03 +- 2.3E-02	U	pCi/g		4.09E-02	1.00E-01	
		EU-152	3.15E-03 +- 7.3E-02	U	pCi/g		1.03E-01	1.00E-01	
		EU-154	3.17E-02 +- 6.8E-02	U	pCi/g		1.26E-01	1.00E-01	
		EU-155	-6.50E-03 +- 5.7E-02	U	pCi/g		9.70E-02	1.00E-01	
J1CYM4									
	MNLDA1AJ	AMERICIUM 241	5.38E-02 +- 1.0E-01	U	pCi/g		1.70E-01		
		CO-60	1.27E-01 +- 3.8E-02		pCi/g		2.44E-02	5.00E-02	
		CS-137	4.47E-01 +- 6.8E-02		pCi/g		2.79E-02	1.00E-01	
		EU-152	6.74E-01 +- 1.2E-01		pCi/g		6.56E-02	1.00E-01	
		EU-154	4.64E-02 +- 5.7E-02	U	pCi/g		1.04E-01	1.00E-01	
		EU-155	7.02E-02 +- 4.4E-02	U	pCi/g		7.79E-02	1.00E-01	
J1CYM5									
	MNLDD1AJ	AMERICIUM 241	2.11E-01 +- 1.8E-01	U	pCi/g		3.12E-01		
		CO-60	6.97E-02 +- 2.6E-02	U	pCi/g		4.81E-02	5.00E-02	

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Sample Results Summary

Date: 21-Nov-11

TestAmerica TARL

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

Report No. : 49411

SDG No: J01313

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
1305048 GAMMA_GS									
J1CYM5									
	MNLDD1AJ	CS-137	5.21E-01 +- 8.1E-02		pCi/g		3.68E-02	1.00E-01	
		EU-152	1.07E+00 +- 1.7E-01		pCi/g		8.47E-02	1.00E-01	
		EU-154	2.34E-01 +- 7.8E-02	U	pCi/g		1.45E-01	1.00E-01	
		EU-155	3.68E-02 +- 6.5E-02	U	pCi/g		1.10E-01	1.00E-01	
J1CYM6									
	MNLDE1AJ	AMERICIUM 241	-3.19E-02 +- 7.1E-02	U	pCi/g		1.19E-01		
		CO-60	-1.13E-03 +- 1.7E-02	U	pCi/g		2.96E-02	5.00E-02	
		CS-137	-9.46E-04 +- 1.7E-02	U	pCi/g		2.86E-02	1.00E-01	
		EU-152	1.55E-02 +- 9.7E-02	U	pCi/g		8.13E-02	1.00E-01	
		EU-154	7.19E-03 +- 5.5E-02	U	pCi/g		9.75E-02	1.00E-01	
		EU-155	-5.17E-03 +- 5.4E-02	U	pCi/g		9.07E-02	1.00E-01	
J1CYM7									
	MNLDF1AJ	AMERICIUM 241	-7.98E-03 +- 9.0E-02	U	pCi/g		1.48E-01		
		CO-60	1.62E-01 +- 5.0E-02		pCi/g		4.09E-02	5.00E-02	
		CS-137	5.19E-01 +- 9.5E-02		pCi/g		4.57E-02	1.00E-01	
		EU-152	1.95E+00 +- 3.0E-01		pCi/g		1.17E-01	1.00E-01	
		EU-154	3.90E-01 +- 1.3E-01	U	pCi/g		2.03E-01	1.00E-01	
		EU-155	1.29E-01 +- 7.6E-02	U	pCi/g		1.32E-01	1.00E-01	
J1CYM8									
	MNLDG1AJ	AMERICIUM 241	6.59E-03 +- 4.8E-02	U	pCi/g		8.21E-02		
		CO-60	1.79E-01 +- 4.9E-02	U	pCi/g		7.29E-02	5.00E-02	
		CS-137	4.46E-01 +- 8.3E-02		pCi/g		4.90E-02	1.00E-01	
		EU-152	1.33E+00 +- 2.2E-01		pCi/g		1.25E-01	1.00E-01	
		EU-154	1.35E-01 +- 8.6E-02	U	pCi/g		1.63E-01	1.00E-01	
		EU-155	2.84E-02 +- 7.7E-02	U	pCi/g		1.31E-01	1.00E-01	
J1CYM9									
	MNLDH1AJ	AMERICIUM 241	-1.04E-01 +- 1.6E-01	U	pCi/g		2.57E-01		
		CO-60	7.67E-03 +- 1.8E-02	U	pCi/g		3.33E-02	5.00E-02	
		CS-137	3.65E-02 +- 2.0E-02	U	pCi/g		3.68E-02	1.00E-01	
		EU-152	1.89E-03 +- 4.6E-02	U	pCi/g		7.95E-02	1.00E-01	
		EU-154	-5.14E-02 +- 5.8E-02	U	pCi/g		9.40E-02	1.00E-01	
		EU-155	-1.49E-02 +- 5.4E-02	U	pCi/g		8.96E-02	1.00E-01	
J1CYN0									
	MNLDJ1AJ	AMERICIUM 241	-4.95E-03 +- 7.7E-02	U	pCi/g		1.30E-01		
		CO-60	7.33E-02 +- 3.2E-02	U	pCi/g		4.15E-02	5.00E-02	
		CS-137	2.51E-01 +- 5.2E-02		pCi/g		2.99E-02	1.00E-01	
		EU-152	5.52E-01 +- 1.2E-01		pCi/g		8.96E-02	1.00E-01	

TestAmerica

rptSTLRchSaSummary2 V5.2.18
A2002

RPD - Relative Percent Difference.

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Sample Results Summary

TestAmerica TARL

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

Date: 21-Nov-11

Report No. : 49411

SDG No: J01313

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
1305048 GAMMA_GS									
J1CYN0									
	MNLDJ1AJ	EU-154	2.46E-01 +- 7.3E-02	U	pCi/g		1.34E-01	1.00E-01	
		EU-155	3.77E-03 +- 6.3E-02	U	pCi/g		1.05E-01	1.00E-01	
1305049 SRTOT_SEP_PRECIP_GPC									
J1CYL8									
	MNLC41AD	STRONTIUM	7.96E-02 +- 8.1E-02	U	pCi/g	62%	1.63E-01		
J1CYL9									
	MNLC51AD	STRONTIUM	4.17E-02 +- 8.1E-02	U	pCi/g	63%	1.80E-01		
J1CYL9 DUP									
	MNLC51AL	STRONTIUM	6.54E-02 +- 8.9E-02	U	pCi/g	56%	1.89E-01		44.4
J1CYM0									
	MNLC61AD	STRONTIUM	-5.44E-02 +- 7.4E-02	U	pCi/g	59%	1.90E-01		
J1CYM1									
	MNLC71AD	STRONTIUM	1.21E-01 +- 9.4E-02	U	pCi/g	60%	1.77E-01		
J1CYM2									
	MNLC81AD	STRONTIUM	3.46E-02 +- 8.3E-02	U	pCi/g	58%	1.87E-01		
J1CYM3									
	MNLC91AD	STRONTIUM	4.49E-02 +- 8.6E-02	U	pCi/g	54%	1.90E-01		
J1CYM4									
	MNLDA1AD	STRONTIUM	1.23E-01 +- 1.0E-01	U	pCi/g	54%	1.95E-01		
J1CYM5									
	MNLDD1AD	STRONTIUM	7.03E-01 +- 2.3E-01		pCi/g	60%	1.77E-01		
J1CYM6									
	MNLDE1AD	STRONTIUM	1.95E-02 +- 7.2E-02	U	pCi/g	62%	1.67E-01		
J1CYM7									
	MNLDF1AD	STRONTIUM	1.43E-02 +- 7.2E-02	U	pCi/g	60%	1.68E-01		
J1CYM8									
	MNLDG1AD	STRONTIUM	7.12E-02 +- 9.1E-02	U	pCi/g	59%	1.92E-01		
J1CYM9									
	MNLDH1AD	STRONTIUM	8.12E-02 +- 8.8E-02	U	pCi/g	58%	1.81E-01		
J1CYN0									
	MNLDJ1AD	STRONTIUM	6.02E-02 +- 7.9E-02	U	pCi/g	62%	1.66E-01		
1305054 TC99_ETVDSK_LSC									
J1CYL8									
	MNLC41AG	TC-99	1.12E-01 +- 3.4E-01	U	pCi/g	100%	6.36E-01	1.50E+01	
J1CYL9									
	MNLC51AG	TC-99	2.04E-01 +- 3.5E-01	U	pCi/g	100%	6.33E-01	1.50E+01	
J1CYM0									
	MNLC61AG	TC-99	1.07E-01 +- 3.4E-01	U	pCi/g	100%	6.33E-01	1.50E+01	

TestAmerica

rptSTLRchSaSummary2 V5.2.18
A2002

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Sample Results Summary

TestAmerica TARL

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

Date: 21-Nov-11

Report No. : 49411

SDG No: J01313

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
1305054 TC99_ETVDSK_LSC									
J1CYM0 DUP									
	MNLC61AL	TC-99	3.22E-02 +- 3.4E-01	U	pCi/g	100%	6.32E-01	1.50E+01	107.3
J1CYM1									
	MNLC71AG	TC-99	1.88E-01 +- 3.5E-01	U	pCi/g	100%	6.34E-01	1.50E+01	
J1CYM2									
	MNLC81AG	TC-99	-2.81E-02 +- 3.4E-01	U	pCi/g	100%	6.33E-01	1.50E+01	
J1CYM3									
	MNLC91AG	TC-99	7.32E-02 +- 3.4E-01	U	pCi/g	100%	6.38E-01	1.50E+01	
J1CYM4									
	MNLDA1AG	TC-99	1.33E-01 +- 3.4E-01	U	pCi/g	100%	6.32E-01	1.50E+01	
J1CYM5									
	MNLDD1AG	TC-99	-4.52E-02 +- 3.3E-01	U	pCi/g	100%	6.29E-01	1.50E+01	
J1CYM6									
	MNLDE1AG	TC-99	-1.57E-02 +- 3.4E-01	U	pCi/g	100%	6.37E-01	1.50E+01	
J1CYM7									
	MNLDF1AG	TC-99	3.63E-01 +- 3.5E-01	U	pCi/g	100%	6.28E-01	1.50E+01	
J1CYM8									
	MNLDG1AG	TC-99	2.73E-01 +- 3.5E-01	U	pCi/g	100%	6.32E-01	1.50E+01	
J1CYM9									
	MNLDH1AG	TC-99	2.14E-01 +- 3.5E-01	U	pCi/g	100%	6.31E-01	1.50E+01	
J1CYN0									
	MNLDJ1AG	TC-99	1.71E-01 +- 3.5E-01	U	pCi/g	100%	6.34E-01	1.50E+01	
1305055 NI63_LSC									
J1CYL8									
	MNLC41AE	NI-63	1.21E+01 +- 7.1E+00	U	pCi/g	100%	1.31E+01	3.00E+01	
J1CYL9									
	MNLC51AE	NI-63	-7.06E+00 +- 5.9E+00	U	pCi/g	100%	1.38E+01	3.00E+01	
J1CYM0									
	MNLC61AE	NI-63	-4.29E+00 +- 6.0E+00	U	pCi/g	100%	1.38E+01	3.00E+01	
J1CYM1									
	MNLC71AE	NI-63	3.61E+01 +- 9.3E+00		pCi/g	100%	1.44E+01	3.00E+01	
J1CYM2									
	MNLC81AE	NI-63	-2.33E+00 +- 5.9E+00	U	pCi/g	100%	1.32E+01	3.00E+01	
J1CYM2 DUP									
	MNLC81AL	NI-63	7.57E+00 +- 6.5E+00	U	pCi/g	100%	1.26E+01	3.00E+01	378.3
J1CYM3									
	MNLC91AE	NI-63	-1.67E+00 +- 5.6E+00	U	pCi/g	100%	1.21E+01	3.00E+01	
J1CYM4									
	MNLDA1AE	NI-63	5.97E+00 +- 6.6E+00	U	pCi/g	100%	1.34E+01	3.00E+01	

TestAmerica

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Sample Results Summary

TestAmerica TARL

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

Date: 21-Nov-11

Report No. : 49411

SDG No: J01313

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
1305055 NI63_LSC									
J1CYM5									
	MNLDD1AE	NI-63	4.24E+00 +- 6.4E+00	U	pCi/g	100%	1.30E+01	3.00E+01	
J1CYM6									
	MNLDE1AE	NI-63	1.16E+00 +- 6.1E+00	U	pCi/g	100%	1.26E+01	3.00E+01	
J1CYM7									
	MNLDF1AE	NI-63	1.83E+01 +- 7.1E+00		pCi/g	100%	1.21E+01	3.00E+01	
J1CYM8									
	MNLDG1AE	NI-63	1.50E+01 +- 7.5E+00		pCi/g	100%	1.39E+01	3.00E+01	
J1CYM9									
	MNLDH1AE	NI-63	1.16E+00 +- 6.1E+00	U	pCi/g	100%	1.26E+01	3.00E+01	
J1CYN0									
	MNLDJ1AE	NI-63	6.18E+00 +- 6.4E+00	U	pCi/g	100%	1.25E+01	3.00E+01	
1305056 906.0_H3_LSC									
J1CYL8									
	MNLC41AH	H-3	1.45E-02 +- 2.3E-02	U	pCi/g	100%	5.04E-02	4.00E+02	
J1CYL9									
	MNLC51AH	H-3	1.30E-02 +- 1.4E-02	U	pCi/g	100%	3.00E-02	4.00E+02	
J1CYM0									
	MNLC61AH	H-3	5.53E-03 +- 9.6E-03	U	pCi/g	100%	2.13E-02	4.00E+02	
J1CYM1									
	MNLC71AH	H-3	3.79E-02 +- 2.8E-02	U	pCi/g	100%	6.01E-02	4.00E+02	
J1CYM2									
	MNLC81AH	H-3	3.20E-03 +- 1.8E-02	U	pCi/g	100%	4.08E-02	4.00E+02	
J1CYM3									
	MNLC91AH	H-3	2.43E-03 +- 9.2E-03	U	pCi/g	100%	2.08E-02	4.00E+02	
J1CYM3 DUP									
	MNLC91AL	H-3	8.75E-03 +- 1.4E-02	U	pCi/g	100%	3.10E-02	4.00E+02	113.2
J1CYM4									
	MNLDA1AH	H-3	2.02E-02 +- 2.3E-02	U	pCi/g	100%	4.97E-02	4.00E+02	
J1CYM5									
	MNLDD1AH	H-3	2.65E-02 +- 3.0E-02	U	pCi/g	100%	6.75E-02	4.00E+02	
J1CYM6									
	MNLDE1AH	H-3	1.05E-02 +- 1.0E-02	U	pCi/g	100%	2.21E-02	4.00E+02	
J1CYM7									
	MNLDF1AH	H-3	4.03E-02 +- 2.9E-02	U	pCi/g	100%	6.22E-02	4.00E+02	
J1CYM8									
	MNLDG1AH	H-3	2.35E-02 +- 2.4E-02	U	pCi/g	100%	5.26E-02	4.00E+02	
J1CYM9									
	MNLDH1AH	H-3	6.91E-03 +- 9.8E-03	U	pCi/g	100%	2.18E-02	4.00E+02	

TestAmerica

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A2002

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Sample Results Summary

TestAmerica TARL

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

Date: 21-Nov-11

Report No. : 49411

SDG No: J01313

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
1305056	906.0_H3_LSC								
	J1CYN0								
	MNLDJ1AH	H-3	2.86E-02 +- 2.4E-02	U	pCi/g	100%	5.30E-02	4.00E+02	
1305058	C14_CHEM_LSC								
	J1CYL8								
	MNLC41AK	C-14	2.68E-01 +- 2.2E-01	U	pCi/g	100%	4.63E-01	5.00E+01	
	J1CYL9								
	MNLC51AK	C-14	2.56E-01 +- 2.2E-01	U	pCi/g	100%	4.65E-01	5.00E+01	
	J1CYM0								
	MNLC61AK	C-14	1.34E-01 +- 2.1E-01	U	pCi/g	100%	4.65E-01	5.00E+01	
	J1CYM1								
	MNLC71AK	C-14	3.72E-01 +- 2.3E-01	U	pCi/g	100%	4.65E-01	5.00E+01	
	J1CYM2								
	MNLC81AK	C-14	1.57E-01 +- 2.1E-01	U	pCi/g	100%	4.65E-01	5.00E+01	
	J1CYM3								
	MNLC91AK	C-14	1.62E-01 +- 2.1E-01	U	pCi/g	100%	4.64E-01	5.00E+01	
	J1CYM4								
	MNLDA1AK	C-14	3.40E-01 +- 2.2E-01	U	pCi/g	100%	4.64E-01	5.00E+01	
	J1CYM4 DUP								
	MNLDA1AL	C-14	6.60E-01 +- 2.4E-01		pCi/g	100%	4.66E-01	5.00E+01	63.9
	J1CYM5								
	MNLDD1AK	C-14	1.34E-01 +- 2.1E-01	U	pCi/g	100%	4.66E-01	5.00E+01	
	J1CYM6								
	MNLDE1AK	C-14	2.81E-01 +- 2.2E-01	U	pCi/g	100%	4.66E-01	5.00E+01	
	J1CYM7								
	MNLDF1AK	C-14	5.21E-02 +- 2.1E-01	U	pCi/g	100%	4.67E-01	5.00E+01	
	J1CYM8								
	MNLDG1AK	C-14	2.61E-01 +- 2.2E-01	U	pCi/g	100%	4.66E-01	5.00E+01	
	J1CYM9								
	MNLDH1AK	C-14	7.70E-03 +- 2.1E-01	U	pCi/g	100%	4.66E-01	5.00E+01	
	J1CYN0								
	MNLDJ1AK	C-14	2.77E-01 +- 2.2E-01	U	pCi/g	100%	4.63E-01	5.00E+01	

No. of Results: 238

TestAmerica

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RPD - Relative Percent Difference.

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QC Results Summary

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Date: 21-Nov-11

Report No. : 49411

SDG No.: J01313

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDL
88 EA								
1305066 MATRIX SPIKE, J1CYL8								
MNLC41AM	HEXCHROME	8.48E+00 +- 0.0E+00		mg/kg	N/A	70%	-0.3	1.55E-01
1305066 LCS,								
MNLWG1AC	HEXCHROME	1.96E+01 +- 0.0E+00		mg/kg	N/A	98%	0.0	1.55E-01
1305066 BLANK QC,								
MNLWG1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01
PUISO_PLATE_AEA								
1318074 BLANK QC,								
MN0WN1AA	PU-238	0.00E+00 +- 6.7E-02	U	pCi/g	100%			1.25E-01
	PU239/40	0.00E+00 +- 6.7E-02	U	pCi/g	100%			1.25E-01
1318074 LCS,								
MN0WN1AC	PU239/40	7.80E+00 +- 2.1E+00		pCi/g	87%	114%	0.1	1.43E-01
UISO_IE_PLATE_AEA								
1318082 BLANK QC,								
MN0WQ1AA	U-234	-2.24E-03 +- 4.5E-02	U	pCi/g	102%			9.33E-02
	U-235	0.00E+00 +- 4.5E-02	U	pCi/g	102%			8.37E-02
	U-238	-2.24E-03 +- 4.5E-02	U	pCi/g	102%			9.33E-02
1318082 LCS,								
MN0WQ1AC	U-234	3.47E+00 +- 7.4E-01		pCi/g	93%	104%	0.0	6.36E-02
	U-238	3.65E+00 +- 7.7E-01		pCi/g	93%	104%	0.0	6.36E-02
GAMMA_GS								
1305048 BLANK QC,								
MNLTR1AA	AMERICIUM 241	4.64E-02 +- 4.6E-02	U	pCi/g				8.17E-02
	CO-60	-8.26E-03 +- 1.5E-02	U	pCi/g				2.48E-02
	CS-137	-8.55E-03 +- 1.4E-02	U	pCi/g				2.36E-02
	EU-152	1.03E-02 +- 3.7E-02	U	pCi/g				6.76E-02
	EU-154	2.24E-02 +- 4.0E-02	U	pCi/g				7.96E-02
	EU-155	0.00E+00 +- 3.5E-02	U	pCi/g				6.00E-02
1305048 LCS,								
MNLTR1AC	CS-137	1.05E+00 +- 1.6E-01		pCi/g		98%	0.0	4.26E-02
SRTOT_SEP_PRECIP_GPC								
1305049 BLANK QC,								
MNLT01AA	STRONTIUM	3.11E-02 +- 6.3E-02	U	pCi/g	86%			1.41E-01
1305049 LCS,								
MNLT01AC	STRONTIUM	1.06E+00 +- 3.0E-01		pCi/g	88%	94%	-0.1	1.21E-01
TC99_ETVDSK_LSC								
1305054 BLANK QC,								
MNLT61AA	TC-99	2.70E-01 +- 3.5E-01	U	pCi/g	100%			6.34E-01
1305054 LCS,								
MNLT61AC	TC-99	6.32E+01 +- 3.9E+00		pCi/g	100%	93%	-0.1	6.30E-01
1305054 MATRIX SPIKE, J1CYM1								
MNLC71AL	TC-99	2.08E+02 +- 1.2E+01		pCi/g	100%	92%	-0.1	6.40E-01

TestAmerica
rptSTLRchQcSummary V5.2.18
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.

QC Results Summary

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Date: 21-Nov-11

Report No. : 49411

SDG No.: J01313

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDL
NI63_LSC								
1305055 BLANK QC,								
MNLVL1AA	NI-63	-1.92E-01 +- 6.0E+00	U	pCi/g	100%			1.27E+01
1305055 LCS,								
MNLVL1AC	NI-63	4.80E+02 +- 4.8E+01		pCi/g	100%	78%	-0.2	1.29E+01
906.0_H3_LSC								
1305056 BLANK QC,								
MNLV11AA	H-3	2.18E-02 +- 1.8E-02	U	pCi/g	100%			3.97E-02
1305056 LCS,								
MNLV11AC	H-3	2.79E-01 +- 2.5E-02		pCi/g	100%	104%	0.0	3.36E-02
C14_CHEM_LSC								
1305058 BLANK QC,								
MNLV61AA	C-14	-9.56E-05 +- 5.2E-03	U	pCi/g	100%			1.17E-02
1305058 LCS,								
MNLV61AC	C-14	7.24E+00 +- 5.2E-01		pCi/g	100%	99%	0.0	4.67E-01

No. of Results: 29

TestAmerica

rptSTLRchQcSummary V5.2.18
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: 21-Nov-11

Lab Name:	**TestAmerica**	**SDG:**	J01313	**Collection Date:**	10/30/2011 2:30:00 PM
Lot-Sample No.:	**J1J310440-1**	**Report No. :**	49411	**Received Date:**	10/31/2011 12:45:00 PM
Client Sample ID:	**J1CYL8**	**COC No. :**	RC-075-191	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305048	GAMMA_GS			**Work Order:** MNLC41AJ			**Report DB ID:** 9MNLC410					
AMERICIUM 241	***-9.15E-02***	U	8.4E-02	8.4E-02	1.38E-01	pCi/g		*-0.66*	11/11/11 11:59 p		365.5	GER10$1
								-(2.2)			g	
CO-60	***6.99E-02***	U	2.8E-02	2.8E-02	4.46E-02	pCi/g		*(1.6)*	11/11/11 11:59 p		365.5	GER10$1
							5.00E-02	*(5.)*			g	
CS-137	***4.43E-01***		6.9E-02	6.9E-02	3.23E-02	pCi/g		*(13.7)*	11/11/11 11:59 p		365.5	GER10$1
							1.00E-01	*(12.9)*			g	
EU-152	***7.95E-01***		1.4E-01	1.4E-01	8.80E-02	pCi/g		*(9.)*	11/11/11 11:59 p		365.5	GER10$1
							1.00E-01	*(11.3)*			g	
EU-154	***8.49E-02***	U	6.2E-02	6.2E-02	1.14E-01	pCi/g		*0.74*	11/11/11 11:59 p		365.5	GER10$1
							1.00E-01	*(2.7)*			g	
EU-155	***7.77E-02***	U	6.8E-02	6.8E-02	1.16E-01	pCi/g		*0.67*	11/11/11 11:59 p		365.5	GER10$1
							1.00E-01	*(2.3)*			g	
Batch: 1305049	SRTOT_SEP_PRECIP_GPC			**Work Order:** MNLC41AD			**Report DB ID:** 9MNLC410					
STRONTIUM	***7.96E-02***	U	7.8E-02	8.1E-02	1.63E-01	pCi/g	62%	*0.49*	11/14/11 05:58 p		6.0	GPC27A
						7.55E-02		*(2.)*			g	
Batch: 1305054	TC99_ETVDSK_LSC			**Work Order:** MNLC41AG			**Report DB ID:** 9MNLC410					
TC-99	***1.12E-01***	U	2.6E-01	3.4E-01	6.36E-01	pCi/g	100%	*0.18*	11/12/11 12:30 p		2.0	LSC4
						3.05E-01	1.50E+01	*0.65*			g	
Batch: 1305055	NI63_LSC			**Work Order:** MNLC41AE			**Report DB ID:** 9MNLC410					
NI-63	***1.21E+01***	U	5.9E+00	7.1E+00	1.31E+01	pCi/g	100%	*0.93*	11/12/11 06:27 p		0.24	LSC3
						6.14E+00	3.00E+01	*(3.4)*			g	

TestAmerica
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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: 21-Nov-11

Lab Name:	TestAmerica	**SDG:**	J01313	**Collection Date:**	10/30/2011 2:30:00 PM
Lot-Sample No.:	J1J310440-1	**Report No. :**	49411	**Received Date:**	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYL8	**COC No. :**	RC-075-191	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305056	906.0_H3_LSC			**Work Order:**	MNLC41AH		**Report DB ID:**	9MNLC410				
H-3	***1.45E-02***	U	2.1E-02	2.3E-02	5.04E-02	pCi/g	100%	*0.29*	11/9/11 05:50 a		78.3	LSC8
						2.40E-02	4.00E+02	*(1.3)*			g	
Batch: 1305058	C14_CHEM_LSC			**Work Order:**	MNLC41AK		**Report DB ID:**	9MNLC410				
C-14	***2.68E-01***	U	2.0E-01	2.2E-01	4.63E-01	pCi/g	100%	*0.58*	11/7/11 09:13 p		5.038	LSC3
						2.18E-01	5.00E+01	*(2.4)*			g	
Batch: 1305066	88 EA			**Work Order:**	MNLC41AA		**Report DB ID:**	9MNLC410				
HEXCHROME	***2.36E-01***			0.0E+00	1.55E-01	mg/kg	N/A	*(1.5)*	11/1/11 08:45 p		2.5456	
							1.55E-01	*N/A*	11/1/11 08:45 p		g	
Batch: 1318074	PUISO_PLATE_AEA			**Work Order:**	MNLC42AF		**Report DB ID:**	9MNLC420				
PU-238	***-5.14E-03***	U	6.9E-02	6.9E-02	1.54E-01	pCi/g	83%	*-0.03*	11/15/11 07:07 p		1.0	ALP38
						3.08E-02	1.00E+00	*-0.15*			g	
PU239/40	***6.66E-02***	U	9.7E-02	9.8E-02	1.28E-01	pCi/g	83%	*0.52*	11/15/11 07:07 p		1.0	ALP38
						1.78E-02	1.00E+00	*(1.4)*			g	
Batch: 1318082	UISO_IE_PLATE_AEA			**Work Order:**	MNLC42AC		**Report DB ID:**	9MNLC420				
U-234	***4.49E-01***		2.2E-01	2.4E-01	1.63E-01	pCi/g	95%	*(2.8)*	11/17/11 06:06 p		0.99	ALP3
						4.66E-02	1.00E+00	*(3.8)*			g	
U-235	***4.12E-02***	U	7.3E-02	7.4E-02	1.46E-01	pCi/g	95%	*0.28*	11/17/11 06:06 p		0.99	ALP3
						3.80E-02	1.00E+00	*(1.1)*			g	
U-238	***4.77E-01***		2.2E-01	2.5E-01	1.55E-01	pCi/g	95%	*(3.1)*	11/17/11 06:06 p		0.99	ALP3
						4.25E-02	1.00E+00	*(3.9)*			g	

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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: 21-Nov-11

Lab Name:	**TestAmerica**	**SDG:**	J01313	**Collection Date:**	10/30/2011 2:30:00 PM
Lot-Sample No.:	**J1J310440-1**	**Report No. :**	49411	**Received Date:**	10/31/2011 12:45:00 PM
Client Sample ID:	**J1CYL8**	**COC No. :**	RC-075-191	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
							Ratio U-234/238 = 0.9					

No. of Results: 17 Comments:

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V5.2.18 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: 21-Nov-11

Lab Name:	TestAmerica	**SDG:**	J01313	**Collection Date:**	10/30/2011 2:35:00 PM
Lot-Sample No.:	J1J310440-2	**Report No. :**	49411	**Received Date:**	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYL9	**COC No. :**	RC-075-191	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305048	GAMMA_GS			**Work Order:** MNLC51AJ			**Report DB ID:** 9MNLC510					
AMERICIUM 241	***-3.95E-02***	U	8.7E-02	8.7E-02	1.41E-01	pCi/g		*-0.28*	11/12/11 12:00 a		339.5	GER11$1
								-0.9			g	
CO-60	***6.85E-03***	U	1.4E-02	1.4E-02	2.61E-02	pCi/g		*0.26*	11/12/11 12:00 a		339.5	GER11$1
							5.00E-02	*0.99*			g	
CS-137	***1.77E-02***	U	1.4E-02	1.4E-02	2.56E-02	pCi/g		*0.69*	11/12/11 12:00 a		339.5	GER11$1
							1.00E-01	*(2.6)*			g	
EU-152	***3.28E-02***	U	3.4E-02	3.4E-02	6.07E-02	pCi/g		*0.54*	11/12/11 12:00 a		339.5	GER11$1
							1.00E-01	*(1.9)*			g	
EU-154	***-1.80E-03***	U	4.8E-02	4.8E-02	8.45E-02	pCi/g		*-0.02*	11/12/11 12:00 a		339.5	GER11$1
							1.00E-01	*-0.07*			g	
EU-155	***3.81E-02***	U	3.7E-02	3.7E-02	6.50E-02	pCi/g		*0.59*	11/12/11 12:00 a		339.5	GER11$1
							1.00E-01	*(2.1)*			g	
Batch: 1305049	SRTOT_SEP_PRECIP_GPC			**Work Order:** MNLC51AD			**Report DB ID:** 9MNLC510					
STRONTIUM	***4.17E-02***	U	8.1E-02	8.1E-02	1.80E-01	pCi/g	63%	*0.23*	11/14/11 05:58 p		5.99	GPC27C
						8.41E-02		*(1.)*			g	
Batch: 1305054	TC99_ETVDSK_LSC			**Work Order:** MNLC51AG			**Report DB ID:** 9MNLC510					
TC-99	***2.04E-01***	U	2.7E-01	3.5E-01	6.33E-01	pCi/g	100%	*0.32*	11/12/11 01:33 p		2.0	LSC4
						3.04E-01	1.50E+01	*(1.2)*			g	
Batch: 1305055	NI63_LSC			**Work Order:** MNLC51AE			**Report DB ID:** 9MNLC510					
NI-63	***-7.06E+00***	U	5.0E+00	5.9E+00	1.38E+01	pCi/g	100%	*-0.51*	11/12/11 06:50 p		0.24	LSC3
						6.46E+00	3.00E+01	*-(2.4)*			g	

TestAmerica
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V5.2.18 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name:	TestAmerica	**SDG:**	J01313	**Collection Date:**	10/30/2011 2:35:00 PM
Lot-Sample No.:	J1J310440-2	**Report No. :**	49411	**Received Date:**	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYL9	**COC No. :**	RC-075-191	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305056	906.0_H3_LSC			**Work Order:** MNLC51AH			**Report DB ID:** 9MNLC510					
H-3	***1.30E-02***	U	1.3E-02	1.4E-02	3.00E-02	pCi/g	100%	*0.43*	11/9/11 07:12 a		77.6	LSC8
						1.43E-02	4.00E+02	*(1.9)*			g	
Batch: 1305058	C14_CHEM_LSC			**Work Order:** MNLC51AK			**Report DB ID:** 9MNLC510					
C-14	***2.56E-01***	U	2.0E-01	2.2E-01	4.65E-01	pCi/g	100%	*0.55*	11/7/11 09:36 p		5.014	LSC3
						2.20E-01	5.00E+01	*(2.3)*			g	
Batch: 1305066	88 EA			**Work Order:** MNLC51AA			**Report DB ID:** 9MNLC510					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	11/1/11 08:45 p		2.5144	
							1.55E-01	*N/A*	11/1/11 08:45 p		g	
Batch: 1318074	PUISO_PLATE_AEA			**Work Order:** MNLC52AF			**Report DB ID:** 9MNLC520					
PU-238	***-4.94E-03***	U	9.9E-02	9.9E-02	2.06E-01	pCi/g	63%	*-0.02*	11/15/11 07:07 p		1.0	ALP39
						3.63E-02	1.00E+00	*-0.1*			g	
PU239/40	***-7.40E-03***	U	9.9E-02	9.9E-02	2.23E-01	pCi/g	63%	*-0.03*	11/15/11 07:07 p		1.0	ALP39
						4.45E-02	1.00E+00	*-0.15*			g	
Batch: 1318082	UISO_IE_PLATE_AEA			**Work Order:** MNLC52AC			**Report DB ID:** 9MNLC520					
U-234	***1.34E-01***	U	1.2E-01	1.2E-01	1.46E-01	pCi/g	104%	*0.92*	11/17/11 06:07 p		0.99	ALP4
						4.01E-02	1.00E+00	*(2.2)*			g	
U-235	***-1.22E-03***	U	4.9E-02	4.9E-02	9.14E-02	pCi/g	104%	*-0.01*	11/17/11 06:07 p		0.99	ALP4
						1.27E-02	1.00E+00	*-0.05*			g	
U-238	***1.61E-01***		1.3E-01	1.3E-01	1.38E-01	pCi/g	104%	*(1.2)*	11/17/11 06:07 p		0.99	ALP4
						3.59E-02	1.00E+00	*(2.4)*			g	

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V5.2.18 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name:	**TestAmerica**	**SDG:**	J01313	**Collection Date:**	10/30/2011 2:35:00 PM
Lot-Sample No.:	**J1J310440-2**	**Report No. :**	49411	**Received Date:**	10/31/2011 12:45:00 PM
Client Sample ID:	**J1CYL9**	**COC No. :**	RC-075-191	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
								Ratio U-234/238 = 0.8				

No. of Results: 17 Comments:

TestAmerica
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V5.2.18 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: 21-Nov-11

Lab Name:	TestAmerica	SDG:	J01313	Collection Date:	10/30/2011 2:40:00 PM
Lot-Sample No.:	J1J310440-3	Report No. :	49411	Received Date:	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYM0	COC No. :	RC-075-191	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305048	GAMMA_GS			Work Order:	MNLC61AJ		Report DB ID:	9MNLC610				
AMERICIUM 241	***-1.87E-02***	U	3.9E-02	3.9E-02	6.41E-02	pCi/g		*-0.29*	11/12/11 12:01 a		340.5	GER14$1
								-0.97			g	
CO-60	***-5.01E-03***	U	2.1E-02	2.1E-02	3.66E-02	pCi/g		*-0.14*	11/12/11 12:01 a		340.5	GER14$1
							5.00E-02	*-0.47*			g	
CS-137	***-1.75E-02***	U	2.3E-02	2.3E-02	3.86E-02	pCi/g		*-0.45*	11/12/11 12:01 a		340.5	GER14$1
							1.00E-01	*-(1.5)*			g	
EU-152	***7.46E-03***	U	7.8E-02	7.8E-02	9.78E-02	pCi/g		*0.08*	11/12/11 12:01 a		340.5	GER14$1
							1.00E-01	*0.19*			g	
EU-154	***-1.94E-02***	U	6.5E-02	6.5E-02	1.11E-01	pCi/g		*-0.18*	11/12/11 12:01 a		340.5	GER14$1
							1.00E-01	*-0.6*			g	
EU-155	***5.94E-03***	U	5.6E-02	5.6E-02	9.40E-02	pCi/g		*0.06*	11/12/11 12:01 a		340.5	GER14$1
							1.00E-01	*0.21*			g	
Batch: 1305049	SRTOT_SEP_PRECIP_GPC			Work Order:	MNLC61AD		Report DB ID:	9MNLC610				
STRONTIUM	***-5.44E-02***	U	7.3E-02	7.4E-02	1.90E-01	pCi/g	59%	*-0.29*	11/14/11 05:58 p		6.0	GPC28C
						8.84E-02		*-(1.5)*			g	
Batch: 1305054	TC99_ETVDSK_LSC			Work Order:	MNLC61AG		Report DB ID:	9MNLC610				
TC-99	***1.07E-01***	U	2.6E-01	3.4E-01	6.33E-01	pCi/g	100%	*0.17*	11/12/11 02:36 p		2.0	LSC4
						3.04E-01	1.50E+01	*0.62*			g	
Batch: 1305055	NI63_LSC			Work Order:	MNLC61AE		Report DB ID:	9MNLC610				
NI-63	***-4.29E+00***	U	5.2E+00	6.0E+00	1.38E+01	pCi/g	100%	*-0.31*	11/12/11 07:13 p		0.24	LSC3
						6.50E+00	3.00E+01	*-(1.4)*			g	

TestAmerica
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V5.2.18 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name:	TestAmerica	**SDG:**	J01313	**Collection Date:**	10/30/2011 2:40:00 PM
Lot-Sample No.:	J1J310440-3	**Report No. :**	49411	**Received Date:**	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYM0	**COC No. :**	RC-075-191	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305056	906.0_H3_LSC			**Work Order:**	MNLC61AH		**Report DB ID:**	9MNLC610				
H-3	***5.53E-03***	U	9.0E-03	9.6E-03	2.13E-02	pCi/g	100%	*0.26*	11/9/11 08:34 a		83.0	LSC8
						1.02E-02	4.00E+02	*(1.2)*			g	
Batch: 1305058	C14_CHEM_LSC			**Work Order:**	MNLC61AK		**Report DB ID:**	9MNLC610				
C-14	***1.34E-01***	U	2.0E-01	2.1E-01	4.65E-01	pCi/g	100%	*0.29*	11/7/11 09:59 p		5.022	LSC3
						2.19E-01	5.00E+01	*(1.3)*			g	
Batch: 1305066	88 EA			**Work Order:**	MNLC61AA		**Report DB ID:**	9MNLC610				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	11/1/11 08:45 p		2.523	
							1.55E-01	*N/A*	11/1/11 08:45 p		g	
Batch: 1318074	PUISO_PLATE_AEA			**Work Order:**	MNLC62AF		**Report DB ID:**	9MNLC620				
PU-238	***0.00E+00***	U	0.0E+00	6.5E-02	1.21E-01	pCi/g	100%	*0.*	11/15/11 07:08 p		0.99	ALP40
						1.68E-02	1.00E+00	*0.*			g	
PU239/40	***-3.24E-03***	U	6.5E-02	6.5E-02	1.35E-01	pCi/g	100%	*-0.02*	11/15/11 07:08 p		0.99	ALP40
						2.38E-02	1.00E+00	*-0.1*			g	
Batch: 1318082	UISO_IE_PLATE_AEA			**Work Order:**	MNLC62AC		**Report DB ID:**	9MNLC620				
U-234	***1.41E-01***		1.1E-01	1.2E-01	8.79E-02	pCi/g	98%	*(1.6)*	11/17/11 06:07 p		1.01	ALP8
						1.22E-02	1.00E+00	*(2.4)*			g	
U-235	***0.00E+00***	U	0.0E+00	4.7E-02	8.79E-02	pCi/g	98%	*0.*	11/17/11 06:07 p		1.01	ALP8
						1.22E-02	1.00E+00	*0.*			g	
U-238	***1.64E-01***		1.2E-01	1.3E-01	8.79E-02	pCi/g	98%	*(1.9)*	11/17/11 06:07 p		1.01	ALP8
						1.22E-02	1.00E+00	*(2.6)*			g	

TestAmerica
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V5.2.18 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: 21-Nov-11

Lab Name:	**TestAmerica**	**SDG:**	J01313	**Collection Date:**	10/30/2011 2:40:00 PM
Lot-Sample No.:	**J1J310440-3**	**Report No. :**	49411	**Received Date:**	10/31/2011 12:45:00 PM
Client Sample ID:	**J1CYM0**	**COC No. :**	RC-075-191	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
								Ratio U-234/238 = 0.9				

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.18 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: 21-Nov-11

Lab Name:	**TestAmerica**	**SDG:**	J01313	**Collection Date:**	10/30/2011 2:15:00 PM
Lot-Sample No.:	**J1J310440-4**	**Report No. :**	49411	**Received Date:**	10/31/2011 12:45:00 PM
Client Sample ID:	**J1CYM1**	**COC No. :**	RC-075-191	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305048	GAMMA_GS			**Work Order:** MNLC71AJ			**Report DB ID:** 9MNLC710					
AMERICIUM 241	***-2.75E-02***	U	8.7E-02	8.7E-02	1.46E-01	pCi/g		*-0.19*	11/12/11 02:49 p		345.5	GER10$1
								-0.63			g	
CO-60	***9.11E-01***		1.2E-01	1.2E-01	2.95E-02	pCi/g		*(30.8)*	11/12/11 02:49 p		345.5	GER10$1
							5.00E-02	*(14.6)*			g	
CS-137	***6.51E-01***		1.0E-01	1.0E-01	3.92E-02	pCi/g		*(16.6)*	11/12/11 02:49 p		345.5	GER10$1
							1.00E-01	*(13.)*			g	
EU-152	***8.14E-01***		1.5E-01	1.5E-01	1.18E-01	pCi/g		*(6.9)*	11/12/11 02:49 p		345.5	GER10$1
							1.00E-01	*(10.7)*			g	
EU-154	***1.28E-01***	U	7.0E-02	7.0E-02	1.30E-01	pCi/g		*0.98*	11/12/11 02:49 p		345.5	GER10$1
							1.00E-01	*(3.7)*			g	
EU-155	***-1.84E-02***	U	7.2E-02	7.2E-02	1.19E-01	pCi/g		*-0.15*	11/12/11 02:49 p		345.5	GER10$1
							1.00E-01	*-0.51*			g	
Batch: 1305049	SRTOT_SEP_PRECIP_GPC			**Work Order:** MNLC71AD			**Report DB ID:** 9MNLC710					
STRONTIUM	***1.21E-01***	U	8.8E-02	9.4E-02	1.77E-01	pCi/g	60%	*0.68*	11/14/11 05:58 p		6.0	GPC28D
						8.21E-02		*(2.6)*			g	
Batch: 1305054	TC99_ETVDSK_LSC			**Work Order:** MNLC71AG			**Report DB ID:** 9MNLC710					
TC-99	***1.88E-01***	U	2.6E-01	3.5E-01	6.34E-01	pCi/g	100%	*0.3*	11/12/11 04:41 p		2.01	LSC4
						3.04E-01	1.50E+01	*(1.1)*			g	
Batch: 1305055	NI63_LSC			**Work Order:** MNLC71AE			**Report DB ID:** 9MNLC710					
NI-63	***3.61E+01***		7.4E+00	9.3E+00	1.44E+01	pCi/g	100%	*(2.5)*	11/12/11 07:36 p		0.24	LSC3
						6.74E+00	3.00E+01	*(7.8)*			g	

TestAmerica
rptSTLRchSample
V5.2.18 A2002

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FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name:	TestAmerica	SDG:	J01313	Collection Date:	10/30/2011 2:15:00 PM
Lot-Sample No.:	J1J310440-4	Report No. :	49411	Received Date:	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYM1	COC No. :	RC-075-191	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305056	906.0_H3_LSC			Work Order:	MNLC71AH		Report DB ID:	9MNLC710				
H-3	***3.79E-02***	U	2.6E-02	2.8E-02	6.01E-02	pCi/g	100%	*0.63*	11/9/11 09:56 a		82.9	LSC8
						2.86E-02	4.00E+02	*(2.7)*			g	
Batch: 1305058	C14_CHEM_LSC			Work Order:	MNLC71AK		Report DB ID:	9MNLC710				
C-14	***3.72E-01***	U	2.1E-01	2.3E-01	4.65E-01	pCi/g	100%	*0.8*	11/7/11 10:22 p		5.012	LSC3
						2.20E-01	5.00E+01	*(3.3)*			g	
Batch: 1305066	88 EA			Work Order:	MNLC71AA		Report DB ID:	9MNLC710				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	11/1/11 08:45 p		2.5034	
							1.55E-01	*N/A*	11/1/11 08:45 p		g	
Batch: 1318074	PUISO_PLATE_AEA			Work Order:	MNLC72AF		Report DB ID:	9MNLC720				
PU-238	***-2.72E-03***	U	5.4E-02	5.4E-02	1.13E-01	pCi/g	100%	*-0.02*	11/15/11 07:08 p		1.01	ALP41
						2.00E-02	1.00E+00	*-0.1*			g	
PU239/40	***7.59E-02***	U	9.4E-02	9.5E-02	1.30E-01	pCi/g	100%	*0.58*	11/15/11 07:08 p		1.01	ALP41
						2.83E-02	1.00E+00	*(1.6)*			g	
Batch: 1318082	UISO_IE_PLATE_AEA			Work Order:	MNLC72AC		Report DB ID:	9MNLC720				
U-234	***4.46E-01***		2.1E-01	2.3E-01	1.04E-01	pCi/g	91%	*(4.3)*	11/17/11 06:08 p		1.0	ALP9
						1.83E-02	1.00E+00	*(3.9)*			g	
U-235	***2.49E-02***	U	5.0E-02	5.0E-02	9.34E-02	pCi/g	91%	*0.27*	11/17/11 06:08 p		1.0	ALP9
						1.30E-02	1.00E+00	*0.99*			g	
U-238	***4.71E-01***		2.2E-01	2.4E-01	1.04E-01	pCi/g	91%	*(4.5)*	11/17/11 06:08 p		1.0	ALP9
						1.83E-02	1.00E+00	*(4.)*			g	

TestAmerica
rptSTLRchSample
V5.2.18 A2002

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FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name:	TestAmerica	SDG:	J01313	Collection Date:	10/30/2011 2:15:00 PM
Lot-Sample No.:	J1J310440-4	Report No. :	49411	Received Date:	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYM1	COC No. :	RC-075-191	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
								Ratio U-234/238 = 0.9				

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.18 A2002

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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: 21-Nov-11

Lab Name:	**TestAmerica**	**SDG:**	J01313	**Collection Date:**	10/30/2011 2:20:00 PM
Lot-Sample No.:	**J1J310440-5**	**Report No. :**	49411	**Received Date:**	10/31/2011 12:45:00 PM
Client Sample ID:	**J1CYM2**	**COC No. :**	RC-075-191	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305048	GAMMA_GS			**Work Order:** MNLC81AJ			**Report DB ID:** 9MNLC810					
AMERICIUM 241	***-1.26E-02***	U	7.6E-02	7.6E-02	1.25E-01	pCi/g		*-0.1*	11/12/11 02:49 p		314.8	GER7$1
								-0.33			g	
CO-60	***1.87E-02***	U	2.4E-02	2.4E-02	4.60E-02	pCi/g		*0.41*	11/12/11 02:49 p		314.8	GER7$1
							5.00E-02	*(1.6)*			g	
CS-137	***1.04E-01***		3.6E-02	3.6E-02	3.78E-02	pCi/g		*(2.8)*	11/12/11 02:49 p		314.8	GER7$1
							1.00E-01	*(5.8)*			g	
EU-152	***3.09E-01***		9.8E-02	9.8E-02	1.10E-01	pCi/g		*(2.8)*	11/12/11 02:49 p		314.8	GER7$1
							1.00E-01	*(6.3)*			g	
EU-154	***1.37E-02***	U	7.1E-02	7.1E-02	1.28E-01	pCi/g		*0.11*	11/12/11 02:49 p		314.8	GER7$1
							1.00E-01	*0.39*			g	
EU-155	***3.30E-02***	U	5.6E-02	5.6E-02	9.68E-02	pCi/g		*0.34*	11/12/11 02:49 p		314.8	GER7$1
							1.00E-01	*(1.2)*			g	
Batch: 1305049	SRTOT_SEP_PRECIP_GPC			**Work Order:** MNLC81AD			**Report DB ID:** 9MNLC810					
STRONTIUM	***3.46E-02***	U	8.3E-02	8.3E-02	1.87E-01	pCi/g	58%	*0.18*	11/14/11 05:58 p		6.0	GPC31A
						8.73E-02		*0.83*			g	
Batch: 1305054	TC99_ETVDSK_LSC			**Work Order:** MNLC81AG			**Report DB ID:** 9MNLC810					
TC-99	***-2.81E-02***	U	2.6E-01	3.4E-01	6.33E-01	pCi/g	100%	*-0.04*	11/12/11 06:46 p		1.99	LSC4
						3.04E-01	1.50E+01	*-0.17*			g	
Batch: 1305055	NI63_LSC			**Work Order:** MNLC81AE			**Report DB ID:** 9MNLC810					
NI-63	***-2.33E+00***	U	5.1E+00	5.9E+00	1.32E+01	pCi/g	100%	*-0.18*	11/12/11 07:59 p		0.25	LSC3
						6.19E+00	3.00E+01	*-0.79*			g	

TestAmerica
rptSTLRchSample
V5.2.18 A2002

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FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name:	**TestAmerica**	**SDG:**	J01313	**Collection Date:**	10/30/2011 2:20:00 PM
Lot-Sample No.:	**J1J310440-5**	**Report No. :**	49411	**Received Date:**	10/31/2011 12:45:00 PM
Client Sample ID:	**J1CYM2**	**COC No. :**	RC-075-191	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305056	906.0_H3_LSC			**Work Order:**	MNLC81AH		**Report DB ID:**	9MNLC810				
H-3	***3.20E-03***	U	1.7E-02	1.8E-02	4.08E-02	pCi/g	100%	*0.08*	11/9/11 11:18 a		89.9	LSC8
						1.94E-02	4.00E+02	*0.36*			g	
Batch: 1305058	C14_CHEM_LSC			**Work Order:**	MNLC81AK		**Report DB ID:**	9MNLC810				
C-14	***1.57E-01***	U	2.0E-01	2.1E-01	4.65E-01	pCi/g	100%	*0.34*	11/7/11 10:45 p		5.022	LSC3
						2.19E-01	5.00E+01	*(1.5)*			g	
Batch: 1305066	88 EA			**Work Order:**	MNLC81AA		**Report DB ID:**	9MNLC810				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	11/1/11 08:45 p		2.5553	
							1.55E-01	*N/A*	11/1/11 08:45 p		g	
Batch: 1318074	PUISO_PLATE_AEA			**Work Order:**	MNLC82AF		**Report DB ID:**	9MNLC820				
PU-238	***3.43E-02***	U	6.9E-02	6.9E-02	1.29E-01	pCi/g	98%	*0.27*	11/15/11 07:09 p		0.99	ALP42
						1.78E-02	1.00E+00	*0.99*			g	
PU239/40	***0.00E+00***	U	0.0E+00	6.9E-02	1.29E-01	pCi/g	98%	*0.*	11/15/11 07:09 p		0.99	ALP42
						1.78E-02	1.00E+00	*0.*			g	
Batch: 1318082	UISO_IE_PLATE_AEA			**Work Order:**	MNLC82AC		**Report DB ID:**	9MNLC820				
U-234	***2.82E-01***		1.7E-01	1.8E-01	1.08E-01	pCi/g	95%	*(2.6)*	11/17/11 07:37 p		0.99	ALP10
						1.90E-02	1.00E+00	*(3.1)*			g	
U-235	***5.17E-02***	U	7.3E-02	7.4E-02	9.69E-02	pCi/g	95%	*0.53*	11/17/11 07:37 p		0.99	ALP10
						1.34E-02	1.00E+00	*(1.4)*			g	
U-238	***4.39E-01***		2.1E-01	2.3E-01	9.69E-02	pCi/g	95%	*(4.5)*	11/17/11 07:37 p		0.99	ALP10
						1.34E-02	1.00E+00	*(3.8)*			g	

TestAmerica
rptSTLRchSample
V5.2.18 A2002

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FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name:	TestAmerica	SDG:	J01313	Collection Date:	10/30/2011 2:20:00 PM
Lot-Sample No.:	J1J310440-5	Report No. :	49411	Received Date:	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYM2	COC No. :	RC-075-191	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
								Ratio U-234/238 = 0.6				

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.18 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name:	TestAmerica	**SDG:**	J01313	**Collection Date:**	10/30/2011 2:25:00 PM
Lot-Sample No.:	J1J310440-6	**Report No. :**	49411	**Received Date:**	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYM3	**COC No. :**	RC-075-191	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305048	GAMMA_GS			**Work Order:** MNLC91AJ			**Report DB ID:** 9MNLC910					
AMERICIUM 241	***-2.23E-02***	U	4.0E-02	4.0E-02	6.71E-02	pCi/g		*-0.33*	11/12/11 02:50 p		323.4	GER14$1
								-(1.1)			g	
CO-60	***-9.12E-03***	U	2.2E-02	2.2E-02	3.73E-02	pCi/g		*-0.24*	11/12/11 02:50 p		323.4	GER14$1
							5.00E-02	*-0.84*			g	
CS-137	***3.13E-03***	U	2.3E-02	2.3E-02	4.09E-02	pCi/g		*0.08*	11/12/11 02:50 p		323.4	GER14$1
							1.00E-01	*0.27*			g	
EU-152	***3.15E-03***	U	7.3E-02	7.3E-02	1.03E-01	pCi/g		*0.03*	11/12/11 02:50 p		323.4	GER14$1
							1.00E-01	*0.09*			g	
EU-154	***3.17E-02***	U	6.8E-02	6.8E-02	1.26E-01	pCi/g		*0.25*	11/12/11 02:50 p		323.4	GER14$1
							1.00E-01	*0.93*			g	
EU-155	***-6.50E-03***	U	5.7E-02	5.7E-02	9.70E-02	pCi/g		*-0.07*	11/12/11 02:50 p		323.4	GER14$1
							1.00E-01	*-0.23*			g	
Batch: 1305049	SRTOT_SEP_PRECIP_GPC			**Work Order:** MNLC91AD			**Report DB ID:** 9MNLC910					
STRONTIUM	***4.49E-02***	U	8.5E-02	8.6E-02	1.90E-01	pCi/g	54%	*0.24*	11/14/11 05:58 p		5.99	GPC31B
						8.82E-02		*(1.)*			g	
Batch: 1305054	TC99_ETVDSK_LSC			**Work Order:** MNLC91AG			**Report DB ID:** 9MNLC910					
TC-99	***7.32E-02***	U	2.6E-01	3.4E-01	6.38E-01	pCi/g	100%	*0.11*	11/12/11 07:49 p		2.0	LSC4
						3.06E-01	1.50E+01	*0.43*			g	
Batch: 1305055	NI63_LSC			**Work Order:** MNLC91AE			**Report DB ID:** 9MNLC910					
NI-63	***-1.67E+00***	U	4.8E+00	5.6E+00	1.21E+01	pCi/g	100%	*-0.14*	11/12/11 08:45 p		0.26	LSC3
						5.70E+00	3.00E+01	*-0.59*			g	

TestAmerica
rptSTLRchSample
V5.2.18 A2002

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FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name: TestAmerica
Lot-Sample No.: J1J310440-6
Client Sample ID: J1CYM3

SDG: J01313
Report No. : 49411
COC No. : RC-075-191

Collection Date: 10/30/2011 2:25:00 PM
Received Date: 10/31/2011 12:45:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305056	906.0_H3_LSC			Work Order: MNLC91AH			Report DB ID: 9MNLC910					
H-3	***2.43E-03***	U	8.7E-03	9.2E-03	2.08E-02	pCi/g	100%	*0.12*	11/9/11 12:39 p		90.5	LSC8
						9.93E-03	4.00E+02	*0.52*			g	
Batch: 1305058	C14_CHEM_LSC			Work Order: MNLC91AK			Report DB ID: 9MNLC910					
C-14	***1.62E-01***	U	2.0E-01	2.1E-01	4.64E-01	pCi/g	100%	*0.35*	11/7/11 11:08 p		5.03	LSC3
						2.19E-01	5.00E+01	*(1.5)*			g	
Batch: 1305066	88 EA			Work Order: MNLC91AA			Report DB ID: 9MNLC910					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	11/1/11 08:45 p		2.5259	
							1.55E-01	*N/A*	11/1/11 08:45 p		g	
Batch: 1318074	PUISO_PLATE_AEA			Work Order: MNLC92AF			Report DB ID: 9MNLC920					
PU-238	***-1.43E-03***	U	5.7E-02	5.7E-02	1.07E-01	pCi/g	100%	*-0.01*	11/15/11 07:09 p		1.0	ALP43
						1.48E-02	1.00E+00	*-0.05*			g	
PU239/40	***-4.28E-03***	U	5.7E-02	5.7E-02	1.28E-01	pCi/g	100%	*-0.03*	11/15/11 07:09 p		1.0	ALP43
						2.57E-02	1.00E+00	*-0.15*			g	
Batch: 1318082	UISO_IE_PLATE_AEA			Work Order: MNLC92AC			Report DB ID: 9MNLC920					
U-234	***9.54E-02***	U	9.7E-02	9.9E-02	9.06E-02	pCi/g	90%	*(1.1)*	11/17/11 06:08 p		1.01	ALP11
						1.26E-02	1.00E+00	*(1.9)*			g	
U-235	***4.83E-02***	U	6.8E-02	6.9E-02	9.06E-02	pCi/g	90%	*0.53*	11/17/11 06:08 p		1.01	ALP11
						1.26E-02	1.00E+00	*(1.4)*			g	
U-238	***1.67E-01***		1.3E-01	1.3E-01	1.01E-01	pCi/g	90%	*(1.6)*	11/17/11 06:08 p		1.01	ALP11
						1.78E-02	1.00E+00	*(2.5)*			g	

TestAmerica
rptSTLRchSample
V5.2.18 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: 21-Nov-11

Lab Name:	TestAmerica	SDG:	J01313	Collection Date:	10/30/2011 2:25:00 PM
Lot-Sample No.:	J1J310440-6	Report No. :	49411	Received Date:	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYM3	COC No. :	RC-075-191	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
								Ratio U-234/238 = 0.6				

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.18 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: 21-Nov-11

Lab Name: TestAmerica
Lot-Sample No.: J1J310440-7
Client Sample ID: J1CYM4

SDG: J01313
Report No. : 49411
COC No. : RC-075-191

Collection Date: 10/30/2011 2:00:00 PM
Received Date: 10/31/2011 12:45:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305048	GAMMA_GS			Work Order: MNLDA1AJ			Report DB ID: 9MNLDA10					
AMERICIUM 241	***5.38E-02***	U	1.0E-01	1.0E-01	1.70E-01	pCi/g		*0.32*	11/12/11 02:51 p		359.7	GER11$1
								(1.1)			g	
CO-60	***1.27E-01***		3.8E-02	3.8E-02	2.44E-02	pCi/g		*(5.2)*	11/12/11 02:51 p		359.7	GER11$1
							5.00E-02	*(6.6)*			g	
CS-137	***4.47E-01***		6.8E-02	6.8E-02	2.79E-02	pCi/g		*(16.)*	11/12/11 02:51 p		359.7	GER11$1
							1.00E-01	*(13.2)*			g	
EU-152	***6.74E-01***		1.2E-01	1.2E-01	6.56E-02	pCi/g		*(10.3)*	11/12/11 02:51 p		359.7	GER11$1
							1.00E-01	*(11.4)*			g	
EU-154	***4.64E-02***	U	5.7E-02	5.7E-02	1.04E-01	pCi/g		*0.45*	11/12/11 02:51 p		359.7	GER11$1
							1.00E-01	*(1.6)*			g	
EU-155	***7.02E-02***	U	4.4E-02	4.4E-02	7.79E-02	pCi/g		*0.9*	11/12/11 02:51 p		359.7	GER11$1
							1.00E-01	*(3.2)*			g	
Batch: 1305049	SRTOT_SEP_PRECIP_GPC			Work Order: MNLDA1AD			Report DB ID: 9MNLDA10					
STRONTIUM	***1.23E-01***	U	9.6E-02	1.0E-01	1.95E-01	pCi/g	54%	*0.63*	11/14/11 05:58 p		6.01	GPC31D
						9.03E-02		*(2.4)*			g	
Batch: 1305054	TC99_ETVDSK_LSC			Work Order: MNLDA1AG			Report DB ID: 9MNLDA10					
TC-99	***1.33E-01***	U	2.6E-01	3.4E-01	6.32E-01	pCi/g	100%	*0.21*	11/12/11 08:52 p		2.0	LSC4
						3.04E-01	1.50E+01	*0.77*			g	
Batch: 1305055	NI63_LSC			Work Order: MNLDA1AE			Report DB ID: 9MNLDA10					
NI-63	***5.97E+00***	U	5.6E+00	6.6E+00	1.34E+01	pCi/g	100%	*0.45*	11/12/11 09:08 p		0.25	LSC3
						6.28E+00	3.00E+01	*(1.8)*			g	

TestAmerica
rptSTLRchSample
V5.2.18 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: 21-Nov-11

Lab Name:	TestAmerica	SDG:	J01313	Collection Date:	10/30/2011 2:00:00 PM
Lot-Sample No.:	J1J310440-7	Report No. :	49411	Received Date:	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYM4	COC No. :	RC-075-191	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305056	906.0_H3_LSC			Work Order: MNLDA1AH			Report DB ID: 9MNLDA10					
H-3	***2.02E-02***	U	2.1E-02	2.3E-02	4.97E-02	pCi/g	100%	*0.41*	11/9/11 03:23 p		81.8	LSC8
						2.37E-02	4.00E+02	*(1.8)*			g	
Batch: 1305058	C14_CHEM_LSC			Work Order: MNLDA1AK			Report DB ID: 9MNLDA10					
C-14	***3.40E-01***	U	2.0E-01	2.2E-01	4.64E-01	pCi/g	100%	*0.73*	11/7/11 11:30 p		5.03	LSC3
						2.19E-01	5.00E+01	*(3.)*			g	
Batch: 1305066	88 EA			Work Order: MNLDA1AA			Report DB ID: 9MNLDA10					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	11/1/11 08:45 p		2.5574	
							1.55E-01	*N/A*	11/1/11 08:45 p		g	
Batch: 1318074	PUISO_PLATE_AEA			Work Order: MNLDA2AF			Report DB ID: 9MNLDA20					
PU-238	***0.00E+00***	U	0.0E+00	8.1E-02	1.52E-01	pCi/g	84%	*0.*	11/15/11 07:10 p		0.99	ALP44
						2.11E-02	1.00E+00	*0.*			g	
PU239/40	***2.03E-01***		1.8E-01	1.9E-01	1.52E-01	pCi/g	84%	*(1.3)*	11/15/11 07:10 p		0.99	ALP44
						2.11E-02	1.00E+00	*(2.2)*			g	
Batch: 1318082	UISO_IE_PLATE_AEA			Work Order: MNLDA2AC			Report DB ID: 9MNLDA20					
U-234	***4.65E-01***		2.2E-01	2.4E-01	1.09E-01	pCi/g	89%	*(4.3)*	11/17/11 06:08 p		1.0	ALP12
						1.91E-02	1.00E+00	*(3.9)*			g	
U-235	***7.79E-02***	U	9.0E-02	9.1E-02	9.74E-02	pCi/g	89%	*0.8*	11/17/11 06:08 p		1.0	ALP12
						1.35E-02	1.00E+00	*(1.7)*			g	
U-238	***4.65E-01***		2.2E-01	2.4E-01	1.09E-01	pCi/g	89%	*(4.3)*	11/17/11 06:08 p		1.0	ALP12
						1.91E-02	1.00E+00	*(3.9)*			g	

TestAmerica
rptSTLRchSample
V5.2.18 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name:	TestAmerica	SDG:	J01313	Collection Date:	10/30/2011 2:00:00 PM
Lot-Sample No.:	J1J310440-7	Report No. :	49411	Received Date:	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYM4	COC No. :	RC-075-191	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Ratio U-234/238 = 1.0												

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.18 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name:	**TestAmerica**	**SDG:**	J01313	**Collection Date:**	10/30/2011 2:05:00 PM
Lot-Sample No.:	**J1J310440-8**	**Report No. :**	49411	**Received Date:**	10/31/2011 12:45:00 PM
Client Sample ID:	**J1CYM5**	**COC No. :**	RC-075-191	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305048	GAMMA_GS			**Work Order:** MNLDD1AJ			**Report DB ID:** 9MNLDD10					
AMERICIUM 241	***2.11E-01***	U	1.8E-01	1.8E-01	3.12E-01	pCi/g		*0.68* *(2.3)*	11/12/11 06:22 p		374.1 g	GER13$1
CO-60	***6.97E-02***	U	2.6E-02	2.6E-02	4.81E-02	pCi/g	5.00E-02	*(1.4)* *(5.5)*	11/12/11 06:22 p		374.1 g	GER13$1
CS-137	***5.21E-01***		8.1E-02	8.1E-02	3.68E-02	pCi/g	1.00E-01	*(14.1)* *(12.9)*	11/12/11 06:22 p		374.1 g	GER13$1
EU-152	***1.07E+00***		1.7E-01	1.7E-01	8.47E-02	pCi/g	1.00E-01	*(12.6)* *(12.4)*	11/12/11 06:22 p		374.1 g	GER13$1
EU-154	***2.34E-01***	U	7.8E-02	7.8E-02	1.45E-01	pCi/g	1.00E-01	*(1.6)* *(6.)*	11/12/11 06:22 p		374.1 g	GER13$1
EU-155	***3.68E-02***	U	6.5E-02	6.5E-02	1.10E-01	pCi/g	1.00E-01	*0.33* *(1.1)*	11/12/11 06:22 p		374.1 g	GER13$1
Batch: 1305049	SRTOT_SEP_PRECIP_GPC			**Work Order:** MNLDD1AD			**Report DB ID:** 9MNLDD10					
STRONTIUM	***7.03E-01***		1.4E-01	2.3E-01	1.77E-01	pCi/g 8.23E-02	60%	*(4.)* *(6.2)*	11/14/11 05:58 p		5.99 g	GPC32A
Batch: 1305054	TC99_ETVDSK_LSC			**Work Order:** MNLDD1AG			**Report DB ID:** 9MNLDD10					
TC-99	***-4.52E-02***	U	2.6E-01	3.3E-01	6.29E-01	pCi/g 3.02E-01	100% 1.50E+01	*-0.07* *-0.27*	11/12/11 09:55 p		2.01 g	LSC4
Batch: 1305055	NI63_LSC			**Work Order:** MNLDD1AE			**Report DB ID:** 9MNLDD10					
NI-63	***4.24E+00***	U	5.4E+00	6.4E+00	1.30E+01	pCi/g 6.12E+00	100% 3.00E+01	*0.33* *(1.3)*	11/12/11 09:31 p		0.25 g	LSC3

TestAmerica
rptSTLRchSample
V5.2.18 A2002

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FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name: TestAmerica
Lot-Sample No.: J1J310440-8
Client Sample ID: J1CYM5

SDG: J01313
Report No. : 49411
COC No. : RC-075-191

Collection Date: 10/30/2011 2:05:00 PM
Received Date: 10/31/2011 12:45:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305056	906.0_H3_LSC			Work Order: MNLDD1AH			Report DB ID: 9MNLDD10					
H-3	***2.65E-02***	U	2.9E-02	3.0E-02	6.75E-02	pCi/g	100%	*0.39*	11/9/11 04:45 p		71.1	LSC8
						3.21E-02	4.00E+02	*(1.7)*			g	
Batch: 1305058	C14_CHEM_LSC			Work Order: MNLDD1AK			Report DB ID: 9MNLDD10					
C-14	***1.34E-01***	U	2.0E-01	2.1E-01	4.66E-01	pCi/g	100%	*0.29*	11/8/11 12:16 a		5.008	LSC3
						2.20E-01	5.00E+01	*(1.2)*			g	
Batch: 1305066	88 EA			Work Order: MNLDD1AA			Report DB ID: 9MNLDD10					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	11/1/11 08:45 p		2.6017	
							1.55E-01	*N/A*	11/1/11 08:45 p		g	
Batch: 1318074	PUISO_PLATE_AEA			Work Order: MNLDD2AF			Report DB ID: 9MNLDD20					
PU-238	***3.80E-02***	U	8.0E-02	8.0E-02	1.50E-01	pCi/g	84%	*0.25*	11/15/11 07:10 p		0.99	ALP46
						2.08E-02	1.00E+00	*0.94*			g	
PU239/40	***3.99E-02***	U	8.0E-02	8.1E-02	1.50E-01	pCi/g	84%	*0.27*	11/15/11 07:10 p		0.99	ALP46
						2.08E-02	1.00E+00	*0.99*			g	
Batch: 1318082	UISO_IE_PLATE_AEA			Work Order: MNLDD3AC			Report DB ID: 9MNLDD30					
U-234	***7.98E-01***		2.9E-01	3.4E-01	1.35E-01	pCi/g	91%	*(5.9)*	11/21/11 02:10 p		1.0	ALP3
						3.12E-02	1.00E+00	*(4.7)*			g	
U-235	***4.42E-02***	U	7.6E-02	7.7E-02	1.46E-01	pCi/g	91%	*0.3*	11/21/11 02:10 p		1.0	ALP3
						3.69E-02	1.00E+00	*(1.2)*			g	
U-238	***7.41E-01***		2.8E-01	3.2E-01	1.46E-01	pCi/g	91%	*(5.1)*	11/21/11 02:10 p		1.0	ALP3
						3.69E-02	1.00E+00	*(4.6)*			g	

TestAmerica
rptSTLRchSample
V5.2.18 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name:	TestAmerica	SDG:	J01313	Collection Date:	10/30/2011 2:05:00 PM
Lot-Sample No.:	J1J310440-8	Report No. :	49411	Received Date:	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYM5	COC No. :	RC-075-191	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
							Ratio U-234/238 = 1.1					

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.18 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: 21-Nov-11

Lab Name:	TestAmerica	SDG:	J01313	Collection Date:	10/30/2011 2:10:00 PM
Lot-Sample No.:	J1J310440-9	Report No. :	49411	Received Date:	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYM6	COC No. :	RC-075-191	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305048	GAMMA_GS			Work Order: MNLDE1AJ			Report DB ID: 9MNLDE10					
AMERICIUM 241	***-3.19E-02***	U	7.1E-02	7.1E-02	1.19E-01	pCi/g		*-0.27*	11/12/11 06:23 p		333.8	GER10$1
								-0.9			g	
CO-60	***-1.13E-03***	U	1.7E-02	1.7E-02	2.96E-02	pCi/g		*-0.04*	11/12/11 06:23 p		333.8	GER10$1
							5.00E-02	*-0.14*			g	
CS-137	***-9.46E-04***	U	1.7E-02	1.7E-02	2.86E-02	pCi/g		*-0.03*	11/12/11 06:23 p		333.8	GER10$1
							1.00E-01	*-0.11*			g	
EU-152	***1.55E-02***	U	9.7E-02	9.7E-02	8.13E-02	pCi/g		*0.19*	11/12/11 06:23 p		333.8	GER10$1
							1.00E-01	*0.32*			g	
EU-154	***7.19E-03***	U	5.5E-02	5.5E-02	9.75E-02	pCi/g		*0.07*	11/12/11 06:23 p		333.8	GER10$1
							1.00E-01	*0.26*			g	
EU-155	***-5.17E-03***	U	5.4E-02	5.4E-02	9.07E-02	pCi/g		*-0.06*	11/12/11 06:23 p		333.8	GER10$1
							1.00E-01	*-0.19*			g	
Batch: 1305049	SRTOT_SEP_PRECIP_GPC			Work Order: MNLDE1AD			Report DB ID: 9MNLDE10					
STRONTIUM	***1.95E-02***	U	7.2E-02	7.2E-02	1.67E-01	pCi/g	62%	*0.12*	11/14/11 05:58 p		6.01	GPC32B
						7.73E-02		*0.54*			g	
Batch: 1305054	TC99_ETVDSK_LSC			Work Order: MNLDE1AG			Report DB ID: 9MNLDE10					
TC-99	***-1.57E-02***	U	2.6E-01	3.4E-01	6.37E-01	pCi/g	100%	*-0.02*	11/12/11 10:57 p		1.99	LSC4
						3.06E-01	1.50E+01	*-0.09*			g	
Batch: 1305055	NI63_LSC			Work Order: MNLDE1AE			Report DB ID: 9MNLDE10					
NI-63	***1.16E+00***	U	5.2E+00	6.1E+00	1.26E+01	pCi/g	100%	*0.09*	11/12/11 09:54 p		0.25	LSC3
						5.93E+00	3.00E+01	*0.38*			g	

TestAmerica
rptSTLRchSample
V5.2.18 A2002

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FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name: TestAmerica
Lot-Sample No.: J1J310440-9
Client Sample ID: J1CYM6

SDG: J01313
Report No. : 49411
COC No. : RC-075-191

Collection Date: 10/30/2011 2:10:00 PM
Received Date: 10/31/2011 12:45:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305056	906.0_H3_LSC			Work Order: MNLDE1AH			Report DB ID: 9MNLDE10					
H-3	***1.05E-02***	U	9.5E-03	1.0E-02	2.21E-02	pCi/g	100%	*0.47*	11/9/11 06:06 p		82.7	LSC8
						1.05E-02	4.00E+02	*(2.1)*			g	
Batch: 1305058	C14_CHEM_LSC			Work Order: MNLDE1AK			Report DB ID: 9MNLDE10					
C-14	***2.81E-01***	U	2.0E-01	2.2E-01	4.66E-01	pCi/g	100%	*0.6*	11/8/11 12:39 a		5.005	LSC3
						2.20E-01	5.00E+01	*(2.5)*			g	
Batch: 1305066	88 EA			Work Order: MNLDE1AA			Report DB ID: 9MNLDE10					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	11/1/11 08:45 p		2.5007	
							1.55E-01	*N/A*	11/1/11 08:45 p		g	
Batch: 1318074	PUISO_PLATE_AEA			Work Order: MNLDE2AF			Report DB ID: 9MNLDE20					
PU-238	***-1.61E-03***	U	6.5E-02	6.5E-02	1.21E-01	pCi/g	95%	*-0.01*	11/15/11 08:38 p		1.02	ALP39
						1.68E-02	1.00E+00	*-0.05*			g	
PU239/40	***-4.84E-03***	U	6.5E-02	6.5E-02	1.45E-01	pCi/g	95%	*-0.03*	11/15/11 08:38 p		1.02	ALP39
						2.90E-02	1.00E+00	*-0.15*			g	
Batch: 1318082	UISO_IE_PLATE_AEA			Work Order: MNLDE2AC			Report DB ID: 9MNLDE20					
U-234	***2.84E-01***		1.8E-01	1.9E-01	1.57E-01	pCi/g	89%	*(1.8)*	11/17/11 08:12 p		1.01	ALP3
						4.21E-02	1.00E+00	*(3.)*			g	
U-235	***-9.45E-03***	U	5.4E-02	5.4E-02	1.47E-01	pCi/g	89%	*-0.06*	11/17/11 08:12 p		1.01	ALP3
						3.71E-02	1.00E+00	*-0.35*			g	
U-238	***2.89E-01***		1.8E-01	1.9E-01	1.36E-01	pCi/g	89%	*(2.1)*	11/17/11 08:12 p		1.01	ALP3
						3.14E-02	1.00E+00	*(3.1)*			g	

TestAmerica
rptSTLRchSample
V5.2.18 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: 21-Nov-11

Lab Name:	TestAmerica	SDG:	J01313	Collection Date:	10/30/2011 2:10:00 PM
Lot-Sample No.:	J1J310440-9	Report No. :	49411	Received Date:	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYM6	COC No. :	RC-075-191	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Ratio U-234/238 = 1.0												

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.18 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: 21-Nov-11

Lab Name: TestAmerica
Lot-Sample No.: J1J310440-10
Client Sample ID: J1CYM7

SDG: J01313
Report No. : 49411
COC No. : RC-075-191

Collection Date: 10/30/2011 1:45:00 PM
Received Date: 10/31/2011 12:45:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305048	GAMMA_GS			Work Order: MNLDF1AJ			Report DB ID: 9MNLDF10					
AMERICIUM 241	***-7.98E-03***	U	9.0E-02	9.0E-02	1.48E-01	pCi/g		*-0.05* *-0.18*	11/12/11 06:24 p		344.0 g	GER7$1
CO-60	***1.62E-01***		5.0E-02	5.0E-02	4.09E-02	pCi/g	5.00E-02	*(4.)* *(6.5)*	11/12/11 06:24 p		344.0 g	GER7$1
CS-137	***5.19E-01***		9.5E-02	9.5E-02	4.57E-02	pCi/g	1.00E-01	*(11.4)* *(11.)*	11/12/11 06:24 p		344.0 g	GER7$1
EU-152	***1.95E+00***		3.0E-01	3.0E-01	1.17E-01	pCi/g	1.00E-01	*(16.7)* *(13.1)*	11/12/11 06:24 p		344.0 g	GER7$1
EU-154	***3.90E-01***	U	1.3E-01	1.3E-01	2.03E-01	pCi/g	1.00E-01	*(1.9)* *(6.)*	11/12/11 06:24 p		344.0 g	GER7$1
EU-155	***1.29E-01***	U	7.6E-02	7.6E-02	1.32E-01	pCi/g	1.00E-01	*0.98* *(3.4)*	11/12/11 06:24 p		344.0 g	GER7$1
Batch: 1305049	SRTOT_SEP_PRECIP_GPC			Work Order: MNLDF1AD			Report DB ID: 9MNLDF10					
STRONTIUM	***1.43E-02***	U	7.2E-02	7.2E-02	1.68E-01	pCi/g 7.74E-02	60%	*0.09* *0.4*	11/14/11 05:58 p		6.0 g	GPC32C
Batch: 1305054	TC99_ETVDSK_LSC			Work Order: MNLDF1AG			Report DB ID: 9MNLDF10					
TC-99	***3.63E-01***	U	2.7E-01	3.5E-01	6.28E-01	pCi/g 3.02E-01	100% 1.50E+01	*0.58* *(2.)*	11/13/11 01:03 a		2.02 g	LSC4
Batch: 1305055	NI63_LSC			Work Order: MNLDF1AE			Report DB ID: 9MNLDF10					
NI-63	***1.83E+01***		5.8E+00	7.1E+00	1.21E+01	pCi/g 5.67E+00	100% 3.00E+01	*(1.5)* *(5.2)*	11/12/11 10:17 p		0.26 g	LSC3

TestAmerica
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V5.2.18 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: 21-Nov-11

Lab Name:	TestAmerica	SDG:	J01313	Collection Date:	10/30/2011 1:45:00 PM
Lot-Sample No.:	J1J310440-10	Report No. :	49411	Received Date:	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYM7	COC No. :	RC-075-191	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305056	906.0_H3_LSC			Work Order: MNLDF1AH			Report DB ID: 9MNLDF10					
H-3	***4.03E-02***	U	2.7E-02	2.9E-02	6.22E-02	pCi/g	100%	*0.65*	11/9/11 07:28 p		67.4	LSC8
						2.96E-02	4.00E+02	*(2.8)*			g	
Batch: 1305058	C14_CHEM_LSC			Work Order: MNLDF1AK			Report DB ID: 9MNLDF10					
C-14	***5.21E-02***	U	1.9E-01	2.1E-01	4.67E-01	pCi/g	100%	*0.11*	11/8/11 01:01 a		5.004	LSC3
						2.20E-01	5.00E+01	*0.5*			g	
Batch: 1305066	88 EA			Work Order: MNLDF1AA			Report DB ID: 9MNLDF10					
HEXCHROME	***7.27E-01***			0.0E+00	1.55E-01	mg/kg	N/A	*(4.7)*	11/1/11 08:45 p		2.5602	
							1.55E-01	*N/A*	11/1/11 08:45 p		g	
Batch: 1318074	PUISO_PLATE_AEA			Work Order: MNLDF2AF			Report DB ID: 9MNLDF20					
PU-238	***3.29E-02***	U	6.6E-02	6.6E-02	1.23E-01	pCi/g	95%	*0.27*	11/15/11 08:40 p		1.02	ALP40
						1.71E-02	1.00E+00	*0.99*			g	
PU239/40	***2.96E-02***	U	6.6E-02	6.6E-02	1.37E-01	pCi/g	95%	*0.22*	11/15/11 08:40 p		1.02	ALP40
						2.42E-02	1.00E+00	*0.89*			g	
Batch: 1318082	UISO_IE_PLATE_AEA			Work Order: MNLDF2AC			Report DB ID: 9MNLDF20					
U-234	***6.64E-01***		2.6E-01	2.9E-01	1.55E-01	pCi/g	95%	*(4.3)*	11/17/11 08:13 p		1.01	ALP4
						4.33E-02	1.00E+00	*(4.5)*			g	
U-235	***-1.26E-03***	U	5.0E-02	5.0E-02	9.41E-02	pCi/g	95%	*-0.01*	11/17/11 08:13 p		1.01	ALP4
						1.31E-02	1.00E+00	*-0.05*			g	
U-238	***2.41E-01***		1.6E-01	1.7E-01	1.42E-01	pCi/g	95%	*(1.7)*	11/17/11 08:13 p		1.01	ALP4
						3.69E-02	1.00E+00	*(2.9)*			g	

TestAmerica
rptSTLRchSample
V5.2.18 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name:	TestAmerica	SDG:	J01313	Collection Date:	10/30/2011 1:45:00 PM
Lot-Sample No.:	J1J310440-10	Report No. :	49411	Received Date:	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYM7	COC No. :	RC-075-191	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Ratio U-234/238 = 2.8												

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.18 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name:	TestAmerica	SDG:	J01313	Collection Date:	10/30/2011 1:50:00 PM
Lot-Sample No.:	J1J310440-11	Report No. :	49411	Received Date:	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYM8	COC No. :	RC-075-191	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305048	GAMMA_GS			Work Order: MNLDG1AJ			Report DB ID: 9MNLDG10					
AMERICIUM 241	***6.59E-03***	U	4.8E-02	4.8E-02	8.21E-02	pCi/g		*0.08*	11/12/11 06:24 p		364.2	GER14$1
								0.27			g	
CO-60	***1.79E-01***	U	4.9E-02	4.9E-02	7.29E-02	pCi/g		*(2.5)*	11/12/11 06:24 p		364.2	GER14$1
							5.00E-02	*(7.3)*			g	
CS-137	***4.46E-01***		8.3E-02	8.3E-02	4.90E-02	pCi/g		*(9.1)*	11/12/11 06:24 p		364.2	GER14$1
							1.00E-01	*(10.7)*			g	
EU-152	***1.33E+00***		2.2E-01	2.2E-01	1.25E-01	pCi/g		*(10.6)*	11/12/11 06:24 p		364.2	GER14$1
							1.00E-01	*(12.3)*			g	
EU-154	***1.35E-01***	U	8.6E-02	8.6E-02	1.63E-01	pCi/g		*0.83*	11/12/11 06:24 p		364.2	GER14$1
							1.00E-01	*(3.1)*			g	
EU-155	***2.84E-02***	U	7.7E-02	7.7E-02	1.31E-01	pCi/g		*0.22*	11/12/11 06:24 p		364.2	GER14$1
							1.00E-01	*0.74*			g	
Batch: 1305049	SRTOT_SEP_PRECIP_GPC			Work Order: MNLDG1AD			Report DB ID: 9MNLDG10					
STRONTIUM	***7.12E-02***	U	8.9E-02	9.1E-02	1.92E-01	pCi/g	59%	*0.37*	11/14/11 05:58 p		5.99	GPC32D
						8.97E-02		*(1.6)*			g	
Batch: 1305054	TC99_ETVDSK_LSC			Work Order: MNLDG1AG			Report DB ID: 9MNLDG10					
TC-99	***2.73E-01***	U	2.7E-01	3.5E-01	6.32E-01	pCi/g	100%	*0.43*	11/13/11 02:06 a		2.0	LSC4
						3.04E-01	1.50E+01	*(1.5)*			g	
Batch: 1305055	NI63_LSC			Work Order: MNLDG1AE			Report DB ID: 9MNLDG10					
NI-63	***1.50E+01***		6.2E+00	7.5E+00	1.39E+01	pCi/g	100%	*(1.1)*	11/12/11 11:03 p		0.24	LSC3
						6.52E+00	3.00E+01	*(4.)*			g	

TestAmerica
rptSTLRchSample
V5.2.18 A2002

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FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name: TestAmerica
Lot-Sample No.: J1J310440-11
Client Sample ID: J1CYM8

SDG: J01313
Report No. : 49411
COC No. : RC-075-191

Collection Date: 10/30/2011 1:50:00 PM
Received Date: 10/31/2011 12:45:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305056	906.0_H3_LSC			Work Order: MNLDG1AH			Report DB ID: 9MNLDG10					
H-3	***2.35E-02***	U	2.3E-02	2.4E-02	5.26E-02	pCi/g	100%	*0.45*	11/9/11 10:12 p		81.4	LSC8
						2.51E-02	4.00E+02	*(2.)*			g	
Batch: 1305058	C14_CHEM_LSC			Work Order: MNLDG1AK			Report DB ID: 9MNLDG10					
C-14	***2.61E-01***	U	2.0E-01	2.2E-01	4.66E-01	pCi/g	100%	*0.56*	11/8/11 01:47 a		5.003	LSC3
						2.20E-01	5.00E+01	*(2.4)*			g	
Batch: 1305066	88 EA			Work Order: MNLDG1AA			Report DB ID: 9MNLDG10					
HEXCHROME	***3.79E-01***			0.0E+00	1.55E-01	mg/kg	N/A	*(2.4)*	11/1/11 08:45 p		2.6151	
							1.55E-01	*N/A*	11/1/11 08:45 p		g	
Batch: 1318074	PUISO_PLATE_AEA			Work Order: MNLDG2AF			Report DB ID: 9MNLDG20					
PU-238	***-2.77E-03***	U	5.5E-02	5.5E-02	1.16E-01	pCi/g	98%	*-0.02*	11/15/11 08:40 p		1.01	ALP41
						2.04E-02	1.00E+00	*-0.1*			g	
PU239/40	***5.11E-02***	U	7.8E-02	7.9E-02	1.25E-01	pCi/g	98%	*0.41*	11/15/11 08:40 p		1.01	ALP41
						2.49E-02	1.00E+00	*(1.3)*			g	
Batch: 1318082	UISO_IE_PLATE_AEA			Work Order: MNLDG2AC			Report DB ID: 9MNLDG20					
U-234	***6.45E-01***		2.4E-01	2.7E-01	8.64E-02	pCi/g	107%	*(7.5)*	11/17/11 08:25 p		1.01	ALP8
						1.20E-02	1.00E+00	*(4.7)*			g	
U-235	***4.61E-02***	U	6.5E-02	6.6E-02	8.64E-02	pCi/g	107%	*0.53*	11/17/11 08:25 p		1.01	ALP8
						1.20E-02	1.00E+00	*(1.4)*			g	
U-238	***3.23E-01***		1.7E-01	1.8E-01	8.64E-02	pCi/g	107%	*(3.7)*	11/17/11 08:25 p		1.01	ALP8
						1.20E-02	1.00E+00	*(3.5)*			g	

TestAmerica
rptSTLRchSample
V5.2.18 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name:	TestAmerica	SDG:	J01313	Collection Date:	10/30/2011 1:50:00 PM
Lot-Sample No.:	J1J310440-11	Report No. :	49411	Received Date:	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYM8	COC No. :	RC-075-191	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Ratio U-234/238 = 2.0												

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.18 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: 21-Nov-11

Lab Name:	TestAmerica	**SDG:**	J01313	**Collection Date:**	10/30/2011 1:55:00 PM
Lot-Sample No.:	J1J310440-12	**Report No. :**	49411	**Received Date:**	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYM9	**COC No. :**	RC-075-191	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305048	GAMMA_GS			**Work Order:** MNLDH1AJ			**Report DB ID:** 9MNLDH10					
AMERICIUM 241	***-1.04E-01***	U	1.6E-01	1.6E-01	2.57E-01	pCi/g		*-0.4* *-(1.3)*	11/12/11 10:17 p		365.8 g	GER13$1
CO-60	***7.67E-03***	U	1.8E-02	1.8E-02	3.33E-02	pCi/g	5.00E-02	*0.23* *0.83*	11/12/11 10:17 p		365.8 g	GER13$1
CS-137	***3.65E-02***	U	2.0E-02	2.0E-02	3.68E-02	pCi/g	1.00E-01	*0.99* *(3.6)*	11/12/11 10:17 p		365.8 g	GER13$1
EU-152	***1.89E-03***	U	4.6E-02	4.6E-02	7.95E-02	pCi/g	1.00E-01	*0.02* *0.08*	11/12/11 10:17 p		365.8 g	GER13$1
EU-154	***-5.14E-02***	U	5.8E-02	5.8E-02	9.40E-02	pCi/g	1.00E-01	*-0.55* *-(1.8)*	11/12/11 10:17 p		365.8 g	GER13$1
EU-155	***-1.49E-02***	U	5.4E-02	5.4E-02	8.96E-02	pCi/g	1.00E-01	*-0.17* *-0.55*	11/12/11 10:17 p		365.8 g	GER13$1
Batch: 1305049	SRTOT_SEP_PRECIP_GPC			**Work Order:** MNLDH1AD			**Report DB ID:** 9MNLDH10					
STRONTIUM	***8.12E-02***	U	8.6E-02	8.8E-02	1.81E-01	pCi/g 8.42E-02	58%	*0.45* *(1.8)*	11/14/11 07:15 p		5.99 g	GPC32A
Batch: 1305054	TC99_ETVDSK_LSC			**Work Order:** MNLDH1AG			**Report DB ID:** 9MNLDH10					
TC-99	***2.14E-01***	U	2.7E-01	3.5E-01	6.31E-01	pCi/g 3.03E-01	100% 1.50E+01	*0.34* *(1.2)*	11/13/11 03:08 a		2.0 g	LSC4
Batch: 1305055	NI63_LSC			**Work Order:** MNLDH1AE			**Report DB ID:** 9MNLDH10					
NI-63	***1.16E+00***	U	5.1E+00	6.1E+00	1.26E+01	pCi/g 5.90E+00	100% 3.00E+01	*0.09* *0.38*	11/12/11 11:26 p		0.25 g	LSC3

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
rptSTLRchSample
V5.2.18 A2002

FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name: TestAmerica
Lot-Sample No.: J1J310440-12
Client Sample ID: J1CYM9

SDG: J01313
Report No. : 49411
COC No. : RC-075-191

Collection Date: 10/30/2011 1:55:00 PM
Received Date: 10/31/2011 12:45:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305056	906.0_H3_LSC			Work Order: MNLDH1AH			Report DB ID: 9MNLDH10					
H-3	***6.91E-03***	U	9.2E-03	9.8E-03	2.18E-02	pCi/g	100%	*0.32*	11/9/11 11:34 p		89.3	LSC8
						1.04E-02	4.00E+02	*(1.4)*			g	
Batch: 1305058	C14_CHEM_LSC			Work Order: MNLDH1AK			Report DB ID: 9MNLDH10					
C-14	***7.70E-03***	U	1.9E-01	2.1E-01	4.66E-01	pCi/g	100%	*0.02*	11/8/11 02:10 a		5.013	LSC3
						2.20E-01	5.00E+01	*0.07*			g	
Batch: 1305066	88 EA			Work Order: MNLDH1AA			Report DB ID: 9MNLDH10					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	11/1/11 08:45 p		2.5263	
							1.55E-01	*N/A*	11/1/11 08:45 p		g	
Batch: 1318074	PUISO_PLATE_AEA			Work Order: MNLDH2AF			Report DB ID: 9MNLDH20					
PU-238	***0.00E+00***	U	0.0E+00	6.7E-02	1.26E-01	pCi/g	99%	*0.*	11/15/11 08:41 p		1.0	ALP42
						1.75E-02	1.00E+00	*0.*			g	
PU239/40	***0.00E+00***	U	0.0E+00	6.7E-02	1.26E-01	pCi/g	99%	*0.*	11/15/11 08:41 p		1.0	ALP42
						1.75E-02	1.00E+00	*0.*			g	
Batch: 1318082	UISO_IE_PLATE_AEA			Work Order: MNLDH2AC			Report DB ID: 9MNLDH20					
U-234	***3.87E-01***		1.9E-01	2.1E-01	1.02E-01	pCi/g	92%	*(3.8)*	11/17/11 08:29 p		1.01	ALP9
						1.79E-02	1.00E+00	*(3.7)*			g	
U-235	***2.43E-02***	U	4.9E-02	4.9E-02	9.12E-02	pCi/g	92%	*0.27*	11/17/11 08:29 p		1.01	ALP9
						1.27E-02	1.00E+00	*0.99*			g	
U-238	***2.39E-01***		1.5E-01	1.6E-01	1.10E-01	pCi/g	92%	*(2.2)*	11/17/11 08:29 p		1.01	ALP9
						2.19E-02	1.00E+00	*(3.)*			g	

TestAmerica
rptSTLRchSample
V5.2.18 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: 21-Nov-11

Lab Name:	TestAmerica	SDG:	J01313	Collection Date:	10/30/2011 1:55:00 PM
Lot-Sample No.:	J1J310440-12	Report No. :	49411	Received Date:	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYM9	COC No. :	RC-075-191	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Ratio U-234/238 = 1.6												

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.18 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: 21-Nov-11

Lab Name: TestAmerica
Lot-Sample No.: J1J310440-13
Client Sample ID: J1CYN0

SDG: J01313
Report No. : 49411
COC No. : RC-075-191

Collection Date: 10/30/2011 1:45:00 PM
Received Date: 10/31/2011 12:45:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305048	GAMMA_GS			Work Order: MNLDJ1AJ			Report DB ID: 9MNLDJ10					
AMERICIUM 241	***-4.95E-03***	U	7.7E-02	7.7E-02	1.30E-01	pCi/g		*-0.04*	11/12/11 10:17 p		402.4	GER10$1
								-0.13			g	
CO-60	***7.33E-02***	U	3.2E-02	3.2E-02	4.15E-02	pCi/g		*(1.8)*	11/12/11 10:17 p		402.4	GER10$1
							5.00E-02	*(4.5)*			g	
CS-137	***2.51E-01***		5.2E-02	5.2E-02	2.99E-02	pCi/g		*(8.4)*	11/12/11 10:17 p		402.4	GER10$1
							1.00E-01	*(9.7)*			g	
EU-152	***5.52E-01***		1.2E-01	1.2E-01	8.96E-02	pCi/g		*(6.2)*	11/12/11 10:17 p		402.4	GER10$1
							1.00E-01	*(9.5)*			g	
EU-154	***2.46E-01***	U	7.3E-02	7.3E-02	1.34E-01	pCi/g		*(1.8)*	11/12/11 10:17 p		402.4	GER10$1
							1.00E-01	*(6.8)*			g	
EU-155	***3.77E-03***	U	6.3E-02	6.3E-02	1.05E-01	pCi/g		*0.04*	11/12/11 10:17 p		402.4	GER10$1
							1.00E-01	*0.12*			g	
Batch: 1305049	SRTOT_SEP_PRECIP_GPC			Work Order: MNLDJ1AD			Report DB ID: 9MNLDJ10					
STRONTIUM	***6.02E-02***	U	7.7E-02	7.9E-02	1.66E-01	pCi/g	62%	*0.36*	11/14/11 07:15 p		6.0	GPC32B
						7.71E-02		*(1.5)*			g	
Batch: 1305054	TC99_ETVDSK_LSC			Work Order: MNLDJ1AG			Report DB ID: 9MNLDJ10					
TC-99	***1.71E-01***	U	2.6E-01	3.5E-01	6.34E-01	pCi/g	100%	*0.27*	11/13/11 04:11 a		2.0	LSC4
						3.04E-01	1.50E+01	*0.99*			g	
Batch: 1305055	NI63_LSC			Work Order: MNLDJ1AE			Report DB ID: 9MNLDJ10					
NI-63	***6.18E+00***	U	5.4E+00	6.4E+00	1.25E+01	pCi/g	100%	*0.49*	11/12/11 11:49 p		0.25	LSC3
						5.89E+00	3.00E+01	*(1.9)*			g	

TestAmerica
rptSTLRchSample
V5.2.18 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name: TestAmerica
Lot-Sample No.: J1J310440-13
Client Sample ID: J1CYN0

SDG: J01313
Report No. : 49411
COC No. : RC-075-191

Collection Date: 10/30/2011 1:45:00 PM
Received Date: 10/31/2011 12:45:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305056	906.0_H3_LSC			Work Order: MNLDJ1AH			Report DB ID: 9MNLDJ10					
H-3	***2.86E-02***	U	2.3E-02	2.4E-02	5.30E-02	pCi/g	100%	*0.54*	11/10/11 12:56 a		68.5	LSC8
						2.53E-02	4.00E+02	*(2.3)*			g	
Batch: 1305058	C14_CHEM_LSC			Work Order: MNLDJ1AK			Report DB ID: 9MNLDJ10					
C-14	***2.77E-01***	U	2.0E-01	2.2E-01	4.63E-01	pCi/g	100%	*0.6*	11/8/11 02:33 a		5.04	LSC3
						2.18E-01	5.00E+01	*(2.5)*			g	
Batch: 1305066	88 EA			Work Order: MNLDJ1AA			Report DB ID: 9MNLDJ10					
HEXCHROME	***7.59E-01***			0.0E+00	1.55E-01	mg/kg	N/A	*(4.9)*	11/1/11 08:45 p		2.5	
							1.55E-01	*N/A*	11/1/11 08:45 p		g	
Batch: 1318074	PUISO_PLATE_AEA			Work Order: MNLDJ2AF			Report DB ID: 9MNLDJ20					
PU-238	***-1.50E-03***	U	6.0E-02	6.0E-02	1.12E-01	pCi/g	94%	*-0.01*	11/15/11 08:41 p		1.01	ALP43
						1.56E-02	1.00E+00	*-0.05*			g	
PU239/40	***-4.50E-03***	U	6.0E-02	6.0E-02	1.35E-01	pCi/g	94%	*-0.03*	11/15/11 08:41 p		1.01	ALP43
						2.70E-02	1.00E+00	*-0.15*			g	
Batch: 1318082	UISO_IE_PLATE_AEA			Work Order: MNLDJ2AC			Report DB ID: 9MNLDJ20					
U-234	***4.15E-01***		2.0E-01	2.2E-01	9.19E-02	pCi/g	89%	*(4.5)*	11/17/11 08:30 p		1.01	ALP11
						1.28E-02	1.00E+00	*(3.8)*			g	
U-235	***0.00E+00***	U	0.0E+00	4.9E-02	9.19E-02	pCi/g	89%	*0.*	11/17/11 08:30 p		1.01	ALP11
						1.28E-02	1.00E+00	*0.*			g	
U-238	***3.65E-01***		1.9E-01	2.0E-01	1.02E-01	pCi/g	89%	*(3.6)*	11/17/11 08:30 p		1.01	ALP11
						1.80E-02	1.00E+00	*(3.6)*			g	

TestAmerica
rptSTLRchSample
V5.2.18 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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FORM I

SAMPLE RESULTS

Date: 21-Nov-11

Lab Name:	TestAmerica	SDG:	J01313	Collection Date:	10/30/2011 1:45:00 PM
Lot-Sample No.:	J1J310440-13	Report No. :	49411	Received Date:	10/31/2011 12:45:00 PM
Client Sample ID:	J1CYN0	COC No. :	RC-075-191	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
								Ratio U-234/238 = 1.1				

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.18 A2002

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

FORM II

Date: 21-Nov-11

DUPLICATE RESULTS

Lab Name: TestAmerica
Lot-Sample No.: J1J310440-1
Client Sample ID: J1CYL8

SDG: J01313
Report No. : 49411
COC No. : RC-075-191

Collection Date: 10/30/2011 2:30:00 PM
Received Date: 10/31/2011 12:45:00 PM
Matrix: SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305066	88 EA			Work Order: MNLC41AN		Report DB ID: MNLC41ER			Orig Sa DB ID: 9MNLC410			
HEXCHROME	4.53E-01			0.0E+00	1.55E-01	mg/kg	N/A	(2.9)	11/1/11 08:45 p		2.5036	
	2.36E-01		RPD	63.0		3.50E-01		N/A	11/1/11 08:45 p		g	

No. of Results: 1 Comments:

TestAmerica RPD - Relative Percent Difference.
rptSTLRchDupV5.2 MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
.18 A2002

FORM II

Date: 21-Nov-11

DUPLICATE RESULTS

Lab Name: TestAmerica
Lot-Sample No.: J1J310440-1
Client Sample ID: J1CYL8 DUP

SDG: J01313
Report No. : 49411
COC No. : RC-075-191

Collection Date: 10/30/2011 2:30:00 PM
Received Date: 10/31/2011 12:45:00 PM
Matrix: SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305048	GAMMA_GS			Work Order:	MNLC41AL	Report DB ID:	MNLC41LR		Orig Sa DB ID:	9MNLC410		
AMERICIUM 241	1.51E-01	U	1.9E-01	1.9E-01	3.19E-01	pCi/g		0.47	11/12/11 02:47 p		365.5	GER13$1
	-9.15E-02	U	RPD	819.6				(1.6)			g	
CO-60	8.12E-02	U	2.9E-02	2.9E-02	5.11E-02	pCi/g		(1.6)	11/12/11 02:47 p		365.5	GER13$1
	6.99E-02	U	RPD	15.0		5.00E-02		(5.6)			g	
CS-137	4.79E-01		7.6E-02	7.6E-02	3.32E-02	pCi/g		(14.4)	11/12/11 02:47 p		365.5	GER13$1
	4.43E-01		RPD	7.9		1.00E-01		(12.6)			g	
EU-152	8.17E-01		1.5E-01	1.5E-01	8.88E-02	pCi/g		(9.2)	11/12/11 02:47 p		365.5	GER13$1
	7.95E-01		RPD	2.7		1.00E-01		(10.8)			g	
EU-154	1.01E-01	U	7.2E-02	7.2E-02	1.32E-01	pCi/g		0.76	11/12/11 02:47 p		365.5	GER13$1
	8.49E-02	U	RPD	16.9		1.00E-01		(2.8)			g	
EU-155	2.12E-02	U	6.2E-02	6.2E-02	1.05E-01	pCi/g		0.2	11/12/11 02:47 p		365.5	GER13$1
	7.77E-02	U	RPD	114.1		1.00E-01		0.68			g	

No. of Results: 6 Comments:

TestAmerica
rptSTLRchDupV5.2
.18 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

Date: 21-Nov-11

DUPLICATE RESULTS

Lab Name: TestAmerica
Lot-Sample No.: J1J310440-2
Client Sample ID: J1CYL9 DUP

SDG: J01313
Report No. : 49411
COC No. : RC-075-191

Collection Date: 10/30/2011 2:35:00 PM
Received Date: 10/31/2011 12:45:00 PM
Matrix: SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305049	SRTOT_SEP_PRECIP_GPC			Work Order: MNLC51AL		Report DB ID: MNLC51LR			Orig Sa DB ID: 9MNLC510			
STRONTIUM	6.54E-02	U	8.7E-02	8.9E-02	1.89E-01	pCi/g	56%	0.35	11/14/11 05:58 p		6.01	GPC28B
	4.17E-02	U	RPD	44.4				(1.5)			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchDupV5.2
.18 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

Date: 21-Nov-11

DUPLICATE RESULTS

Lab Name: TestAmerica
Lot-Sample No.: J1J310440-3
Client Sample ID: J1CYM0 DUP

SDG: J01313
Report No. : 49411
COC No. : RC-075-191

Collection Date: 10/30/2011 2:40:00 PM
Received Date: 10/31/2011 12:45:00 PM
Matrix: SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305054	TC99_ETVDSK_LSC			Work Order: MNLC61AL		Report DB ID: MNLC61LR			Orig Sa DB ID: 9MNLC610			
TC-99	3.22E-02	U	2.6E-01	3.4E-01	6.32E-01	pCi/g	100%	0.05	11/12/11 03:38 p		2.0	LSC4
	1.07E-01	U	RPD	107.3		1.50E+01		0.19			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchDupV5.2
.18 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

Date: 21-Nov-11

DUPLICATE RESULTS

Lab Name: TestAmerica
Lot-Sample No.: J1J310440-5
Client Sample ID: J1CYM2 DUP

SDG: J01313
Report No. : 49411
COC No. : RC-075-191

Collection Date: 10/30/2011 2:20:00 PM
Received Date: 10/31/2011 12:45:00 PM
Matrix: SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305055	NI63_LSC			Work Order:	MNLC81AL	Report DB ID:	MNLC81LR		Orig Sa DB ID: 9MNLC810			
NI-63	7.57E+00	U	5.5E+00	6.5E+00	1.26E+01	pCi/g	100%	0.6	11/12/11 08:22 p		0.25	LSC3
	-2.33E+00	U	RPD	378.3		3.00E+01		(2.3)			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchDupV5.2
.18 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

Date: 21-Nov-11

DUPLICATE RESULTS

Lab Name: TestAmerica
Lot-Sample No.: J1J310440-6
Client Sample ID: J1CYM3 DUP

SDG: J01313
Report No. : 49411
COC No. : RC-075-191

Collection Date: 10/30/2011 2:25:00 PM
Received Date: 10/31/2011 12:45:00 PM
Matrix: SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305056	906.0_H3_LSC			Work Order: MNLC91AL		Report DB ID: MNLC91LR			Orig Sa DB ID: 9MNLC910			
H-3	8.75E-03	U	1.3E-02	1.4E-02	3.10E-02	pCi/g	100%	0.28	11/9/11 02:01 p		60.4	LSC8
	2.43E-03	U	RPD	113.2		4.00E+02		(1.3)			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchDupV5.2
.18 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

Date: 21-Nov-11

DUPLICATE RESULTS

Lab Name: TestAmerica
Lot-Sample No.: J1J310440-7
Client Sample ID: J1CYM4 DUP

SDG: J01313
Report No. : 49411
COC No. : RC-075-191

Collection Date: 10/30/2011 2:00:00 PM
Received Date: 10/31/2011 12:45:00 PM
Matrix: SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305058	C14_CHEM_LSC			Work Order:	MNLDA1AL	Report DB ID:	MNLDA1LR		Orig Sa DB ID:	9MNLDA10		
C-14	6.60E-01		2.2E-01	2.4E-01	4.66E-01	pCi/g	100%	(1.4)	11/7/11 11:53 p		5.002	LSC3
	3.40E-01	U	RPD	63.9		5.00E+01		(5.5)			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchDupV5.2
.18 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

Date: 21-Nov-11

DUPLICATE RESULTS

Lab Name: TestAmerica
Lot-Sample No.: J1J310440-8
Client Sample ID: J1CYM5 DUP

SDG: J01313
Report No. : 49411
COC No. : RC-075-191

Collection Date: 10/30/2011 2:05:00 PM
Received Date: 10/31/2011 12:45:00 PM
Matrix: SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1318082	UISO_IE_PLATE_AEA			Work Order: MNLDD1AM		Report DB ID: MNLDD1MR			Orig Sa DB ID: 9MNLDD30			
U-234	6.16E-01		2.5E-01	2.8E-01	9.36E-02	pCi/g	93%	(6.6)	11/17/11 06:13 p		1.01	ALP71
	7.98E-01		RPD 25.7			1.00E+00		(4.4)			g	
U-235	2.52E-02	U	5.1E-02	5.2E-02	8.66E-02	pCi/g	93%	0.29	11/17/11 06:13 p		1.01	ALP71
	4.42E-02	U	RPD 54.9			1.00E+00		0.97			g	
U-238	5.65E-01		2.4E-01	2.7E-01	8.66E-02	pCi/g	93%	(6.5)	11/17/11 06:13 p		1.01	ALP71
	7.41E-01		RPD 27.0			1.00E+00		(4.2)			g	

Ratio U-234/238 = 1.1 *Alpha Spec Result Sum = 1.2E+00*

No. of Results: 3 Comments:

TestAmerica
rptSTLRchDupV5.2
.18 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

Date: 21-Nov-11

DUPLICATE RESULTS

Lab Name: TestAmerica
Lot-Sample No.: J1J310440-9
Client Sample ID: J1CYM6 DUP

SDG: J01313
Report No. : 49411
COC No. : RC-075-191

Collection Date: 10/30/2011 2:10:00 PM
Received Date: 10/31/2011 12:45:00 PM
Matrix: SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1318074	PUISO_PLATE_AEA			Work Order:	MNLDE1AM	Report DB ID:	MNLDE1MR		Orig Sa DB ID: 9MNLDE20			
PU-238	-2.89E-03	U	5.8E-02	5.8E-02	1.21E-01	pCi/g	100%	-0.02	11/15/11 08:38 p		0.99	ALP38
	-1.61E-03	U	RPD	-56.8		1.00E+00		-0.1			g	
PU239/40	-1.45E-03	U	5.8E-02	5.8E-02	1.08E-01	pCi/g	100%	-0.01	11/15/11 08:38 p		0.99	ALP38
	-4.84E-03	U	RPD	-108.0		1.00E+00		-0.05			g	

No. of Results: 2 Comments:

TestAmerica
rptSTLRchDupV5.2
.18 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: 21-Nov-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: J01313

Report No. : 49411

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Lc	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1305066	88 EA			Work Order: MNLWG1AA		Report DB ID: MNLWG1AB						
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	11/1/11 08:45 p		2.5	
						1.55E-01		N/A	11/1/11 08:45 p		g	
Batch: 1305058	C14_CHEM_LSC			Work Order: MNLV61AA		Report DB ID: MNLV61AB						
C-14	-9.56E-05	U	4.7E-03	5.2E-03	1.17E-02	pCi/g	100%	-0.01	11/8/11 02:56 a		200.0	LSC3
					5.50E-03	5.00E+01		-0.04			g	
Batch: 1318074	PUISO_PLATE_AEA			Work Order: MN0WN1AA		Report DB ID: MN0WN1AB						
PU-238	0.00E+00	U	0.0E+00	6.7E-02	1.25E-01	pCi/g	100%	0.	11/15/11 08:42 p		1.01	ALP44
					1.74E-02	1.00E+00		0.			g	
PU239/40	0.00E+00	U	0.0E+00	6.7E-02	1.25E-01	pCi/g	100%	0.	11/15/11 08:42 p		1.01	ALP44
					1.74E-02	1.00E+00		0.			g	
Batch: 1318082	UISO_IE_PLATE_AEA			Work Order: MN0WQ1AA		Report DB ID: MN0WQ1AB						
U-234	-2.24E-03	U	4.5E-02	4.5E-02	9.33E-02	pCi/g	102%	-0.02	11/17/11 08:31 p		1.03	ALP12
					1.64E-02	1.00E+00		-0.1			g	
U-235	0.00E+00	U	0.0E+00	4.5E-02	8.37E-02	pCi/g	102%	0.	11/17/11 08:31 p		1.03	ALP12
					1.16E-02	1.00E+00		0.			g	
U-238	-2.24E-03	U	4.5E-02	4.5E-02	9.33E-02	pCi/g	102%	-0.02	11/17/11 08:31 p		1.03	ALP12
					1.64E-02	1.00E+00		-0.1			g	
							Ratio U-234/238 = 1.0					
Batch: 1305055	NI63_LSC			Work Order: MNLVL1AA		Report DB ID: MNLVL1AB						
NI-63	-1.92E-01	U	5.1E+00	6.0E+00	1.27E+01	pCi/g	100%	-0.02	11/13/11 12:12 a		0.25	LSC3
					5.96E+00	3.00E+01		-0.06			g	
Batch: 1305054	TC99_ETVDSK_LSC			Work Order: MNLT61AA		Report DB ID: MNLT61AB						

TestAmerica
rptSTLRchBlank
V5.2.18 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

BLANK RESULTS

Date: 21-Nov-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: J01313

Report No. : 49411

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Lc	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
TC-99	2.70E-01	U	2.7E-01	3.5E-01	6.34E-01 3.05E-01	pCi/g 1.50E+01	100%	0.43 (1.5)	11/13/11 05:14 a		2.0 g	LSC4
Batch: 1305056	906.0_H3_LSC			Work Order:	MNLV11AA	Report DB ID:	MNLV11AB					
H-3	2.18E-02	U	1.7E-02	1.8E-02	3.97E-02 1.89E-02	pCi/g 4.00E+02	100%	0.55 (2.4)	11/10/11 02:17 a		86.3 g	LSC8
Batch: 1305048	GAMMA_GS			Work Order:	MNLTR1AA	Report DB ID:	MNLTR1AB					
AMERICIUM 241	4.64E-02	U	4.6E-02	4.6E-02	8.17E-02	pCi/g		0.57 (2.)	11/12/11 10:18 p		348.0 g	GER7$1
CO-60	-8.26E-03	U	1.5E-02	1.5E-02	2.48E-02	pCi/g 5.00E-02		-0.33 -(1.1)	11/12/11 10:18 p		348.0 g	GER7$1
CS-137	-8.55E-03	U	1.4E-02	1.4E-02	2.36E-02	pCi/g 1.00E-01		-0.36 -(1.2)	11/12/11 10:18 p		348.0 g	GER7$1
EU-152	1.03E-02	U	3.7E-02	3.7E-02	6.76E-02	pCi/g 1.00E-01		0.15 0.55	11/12/11 10:18 p		348.0 g	GER7$1
EU-154	2.24E-02	U	4.0E-02	4.0E-02	7.96E-02	pCi/g 1.00E-01		0.28 (1.1)	11/12/11 10:18 p		348.0 g	GER7$1
EU-155	0.00E+00	U	3.5E-02	3.5E-02	6.00E-02	pCi/g 1.00E-01		0. 0.	11/12/11 10:18 p		348.0 g	GER7$1
Batch: 1305049	SRTOT_SEP_PRECIP_GPC			Work Order:	MNLT01AA	Report DB ID:	MNLT01AB					
STRONTIUM	3.11E-02	U	6.3E-02	6.3E-02	1.41E-01 6.57E-02	pCi/g	86%	0.22 0.98	11/14/11 07:15 p		6.0 g	GPC32D

No. of Results: 17 Comments:

TestAmerica
rptSTLRchBlank
V5.2.18 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: 21-Nov-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: J01313

Report No. : 49411

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 1305066	88 EA			Work Order: MNLWG1AC			Report DB ID: MNLWG1AS						
HEXCHROME	1.96E+01			0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		98%	11/1/11 08:45 p	2.5	
							Rec Limits:	80	120	0.0	11/1/11 08:45 p	g	
Batch: 1305058	C14_CHEM_LSC			Work Order: MNLV61AC			Report DB ID: MNLV61CS						
C-14	7.24E+00		4.2E-01	5.2E-01	4.67E-01	pCi/g	100%	7.34E+00	1.2E-01	99%	11/8/11 03:19 a	5.0	LSC3
							Rec Limits:	70	130	0.0		g	
Batch: 1318074	PUISO_PLATE_AEA			Work Order: MN0WN1AC			Report DB ID: MN0WN1CS						
PU239/40	7.80E+00		1.1E+00	2.1E+00	1.43E-01	pCi/g	87%	6.84E+00	2.1E-01	114%	11/15/11 08:43 p	1.0	ALP46
							Rec Limits:	70	130	0.1		g	
Batch: 1318082	UISO_IE_PLATE_AEA			Work Order: MN0WQ1AC			Report DB ID: MN0WQ1CS						
U-234	3.47E+00		4.3E-01	7.4E-01	6.36E-02	pCi/g	93%	3.33E+00	1.0E-01	104%	11/17/11 08:57 p	0.98	ALP71
							Rec Limits:	70	130	0.0		g	
U-238	3.65E+00		4.4E-01	7.7E-01	6.36E-02	pCi/g	93%	3.49E+00	1.1E-01	104%	11/17/11 08:57 p	0.98	ALP71
							Rec Limits:	70	130	0.0		g	
Batch: 1305055	NI63_LSC			Work Order: MNLVL1AC			Report DB ID: MNLVL1CS						
NI-63	4.80E+02		1.7E+01	4.8E+01	1.29E+01	pCi/g	100%	6.16E+02	7.0E+00	78%	11/13/11 12:36 a	0.25	LSC3
							Rec Limits:	70	130	-0.2		g	
Batch: 1305054	TC99_ETVDSK_LSC			Work Order: MNLT61AC			Report DB ID: MNLT61CS						
TC-99	6.32E+01		1.1E+00	3.9E+00	6.30E-01	pCi/g	100%	6.82E+01	7.1E-01	93%	11/13/11 06:17 a	2.01	LSC4
							Rec Limits:	70	130	-0.1		g	
Batch: 1305056	906.0_H3_LSC			Work Order: MNLV11AC			Report DB ID: MNLV11CS						
H-3	2.79E-01		2.3E-02	2.5E-02	3.36E-02	pCi/g	100%	2.67E-01	8.0E-03	104%	11/10/11 03:39 a	101.7	LSC8
							Rec Limits:	70	130	0.0		g	

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

TestAmerica
rptSTLRchLcs
V5.2.18 A2002

FORM II

LCS RESULTS

Date: 21-Nov-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: J01313

Report No. : 49411

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 1305048	GAMMA_GS			Work Order:	MNLTR1AC		Report DB ID:	MNLTR1CS					
CS-137	1.05E+00		1.6E-01	1.6E-01	4.26E-02	pCi/g		1.07E+00	1.1E-02	98%	11/12/11 10:19 p	350.1	GER14$1
							Rec Limits:	70	130	0.0		g	
Batch: 1305049	SRTOT_SEP_PRECIP_GPC			Work Order:	MNLT01AC		Report DB ID:	MNLT01CS					
STRONTIUM	1.06E+00		1.3E-01	3.0E-01	1.21E-01	pCi/g	88%	1.13E+00	1.3E-02	94%	11/14/11 07:15 p	5.98	GPC32C
							Rec Limits:	70	130	-0.1		g	

No. of Results: 10 Comments:

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

rptSTLRchLcs
V5.2.18 A2002

FORM II

Date: 21-Nov-11

MATRIX SPIKE RESULTS

Lab Name: TestAmerica

SDG: J01313

Lot-Sample No.: J1J310440-1, J1CYL8

Report No. : 49411

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: 1305066	Work Order:	MNLC41AM		Report DB ID:	MNLC41CW		Orig Sa DB ID:	9MNLC410				
HEXCHROME	8.48E+00			0.0E+00	1.55E-01	mg/kg	N/A	69.63%	1.22E+01	11/1/11 08:45 p	2.5216	88 EA
	2.36E-01									11/1/11 08:45 p	g	

Number of Results: 1

Comments:

TestAmerica RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

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

V5.2.18 A2002

FORM II

Date: 21-Nov-11

MATRIX SPIKE RESULTS

Lab Name: TestAmerica

SDG: J01313

Lot-Sample No.: J1J310440-4, J1CYM1

Report No. : 49411

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: 1305054	Work Order:	MNLC71AL		Report DB ID:	MNLC71LW		Orig Sa DB ID:	9MNLC710				
TC-99	2.08E+02		2.0E+00	1.2E+01	6.40E-01	pCi/g	100%	92.04%	2.26E+02	11/12/11 05:44 p	2.0	TC99_ETVDSK_LSC
	1.88E-01								2.3E+00		g	LSC4

Number of Results: 1

Comments:

TestAmerica
rptSTLRchMs
V5.2.18 A2002

RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/18/2011 10:59:46 AM

Lot No., Due Date: J1J310440; 11/15/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1318074; RPUISO Pulso by ALP
SDG, Matrix: J01313; SOIL

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

6.0 Comments on any No response:
Please see NCM # 10-19748

First Level [signature] **Date** 11-18-11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1318074

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

Comments on any "No" response: CRDL = 1.0 pCi/gm
See NCM #10-19248

Second Level Review: [signature] Date: 11/18/10

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-19748**
NCM Initiated By: John Norton
Date Opened: 11/18/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Environmental - Sep
Tests: Pulso by ALP
Lot #'s (Sample #'s): J1J310440 (1,10,11,12,13,2,3,4,5,6,7,8,9),
QC Batches: 1305062,

Nonconformance: Other (describe in detail)
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
John Norton	11/18/2011	When counted the expected peaks were not found on the spectra from any of these samples, suspected separations error.

Corrective Action

Name	Date	Corrective Action
John Norton	11/18/2011	The samples were re-analyzed in batch 1318074 for acceptable results.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 11/18/2011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/21/2011 3:27:52 PM

Lot No., Due Date: J1J310440; 11/15/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1318082; RUISO Uiso by ALP
SDG, Matrix: J01313; SOIL

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

6.0 Comments on any No response:
Please see NCM #10-19770

First Level John Rostron **Date** 11-21-11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1318082

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

Comments on any "No" response: CRDL = 10 pCi/g
See NCM #: 10-19770

Second Level Review: [signature] Date: 11/21/10

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-19770**
NCM Initiated By: John Norton
Date Opened: 11/21/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Environmental - Sep
Tests: Ulso by ALP
Lot #'s (Sample #'s): J1J310440 (1,10,11,12,13,2,3,4,5,6,7,8,9),
QC Batches: 1305059,

Nonconformance: Other (describe in detail)
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
John Norton	11/21/2011	When the spectra for this batch were examined the expected peaks were not found, it is suspected that the wrong separations procedure was used.

Corrective Action

Name	Date	Corrective Action
John Norton	11/21/2011	The samples were re-anlayzed in batch # 1318082. Sample J1J310440-8 provided a high tracer yeild, it was re-counted for an acceptable yield.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 11/21/2011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

11/15/2011 10:03:49 AM

Lot No., Due Date: J1J310440; 11/15/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1305049; RSRTOT SrTot by GPC
SDG, Matrix: J01313; SOIL

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

6.0 Comments on any No response:

First Level John Norton Date 11-15-11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1305049

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

Comments on any "No" response: SRDL = 1.0pci/g

Second Level Review: Rhonda Wyer Date: 11/15/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

11/15/2011 3:02:10 PM

Lot No., Due Date: J1J310440; 11/15/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1305048; RGAMMA Gamma by GER
SDG, Matrix: J01313; SOIL

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

6.0 Comments on any No response:
Please see NCM # 10-19698

First Level John Norton **Date** 11-15-11

TestAmerica Richland
QAS_RADCALCv4.8.44

TestAmerica Laboratories, Inc.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1305048

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

Comments on any "No" response: SRDL = 0.1 pci/g
See NCM #: 10-19698

Second Level Review: [signature] Date: 11/16/14

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-19698**
NCM Initiated By: John Norton
Date Opened: 11/15/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Counting
Tests: Gamma by GER
Lot #'s (Sample #'s): J1J310440 (1,10,11,12,13,2,3,4,5,6,7,8,9),
QC Batches: 1305048,

Nonconformance: MDA not met
Subcategory: Data accepted

Problem Description / Root Cause

Name	Date	Description
John Norton	11/15/2011	1: Some of the samples did not meet the CRDL. 2: The volume available for analysis was not sufficient for the creation of a duplicate.

Corrective Action

Name	Date	Corrective Action
John Norton	11/15/2011	1: Due to the priority nature of the samples the data will be presented to the client, the samples can be re-counted for a longer time frame at client request. 2: One sample was re-counted in order to provide a duplicate.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 11/15/2011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

11/15/2011 2:21:28 PM

Lot No., Due Date: J1J310440; 11/15/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1305054; RTC99 Tc-99 by LSC
SDG, Matrix: J01313; SOIL

1.0 COC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes ✓	No	N/A

2.0 QC Batch

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes ✓	No	N/A
2.2 Are the QC appropriate for the analysis included in the batch?	Yes ✓	No	N/A
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes ✓	No	N/A
2.4 Does the Worksheets include a Tracer Vial label for each sample?	Yes	No	N/A ✓

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.2 Is the LCS result, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	Yes ✓	No	N/A
3.4 Are the duplicate result, yields, and MDAs within contract limits?	Yes ✓	No	N/A
3.5 Are the sample yields and MDAs within contract limits?	Yes ✓	No	N/A

4.0 Raw Data

4.1 Were results calculated in the correct units?	Yes ✓	No	N/A
4.2 Were analysis volumes entered correctly?	Yes ✓	No	N/A
4.3 Were Yields entered correctly?	Yes	No	N/A ✓
4.4 Were spectra reviewed/meet contractual requirements?	Yes	No	N/A
4.5 Were raw counts reviewed for anomalies?	Yes ✓	No	N/A

5.0 Other

5.1 Are all nonconformances included and noted?	Yes	No	N/A ✓
5.2 Are all required forms filled out?	Yes ✓	No	N/A
5.3 Was the correct methodology used?	Yes ✓	No	N/A
5.4 Was transcription checked?	Yes ✓	No	N/A
5.5 Were all calculations checked at a minimum frequency?	Yes ✓	No	N/A
5.6 Are worksheet entries complete and correct?	Yes ✓	No	N/A

6.0 Comments on any No response:

First Level Lisa Christensen **Date** 11/15/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1305054

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

Comments on any "No" response: CRDL = 1.0 pCi/g

Second Level Review: [signature] Date: 11/15/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

11/11/2011 8:49:04 AM

Lot No., Due Date: J1J310440; 11/15/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1305056; RTRITIUM H-3 by LSC
SDG, Matrix: J01313; SOIL

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

6.0 Comments on any No response:

First Level John Norton **Date** 11-11-11

TestAmerica Richland
QAS_RADCALCv4.8.44

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1305056

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

Comments on any "No" response: CRDL = 400pci/gr

Second Level Review: Rhonda [illegible] Date: 11/11/14

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

11/10/2011 3:33:59 PM

Lot No., Due Date: J1J310440; 11/15/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1305058; RC14 C-14 by LSC
SDG, Matrix: J01313; SOIL

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

6.0 Comments on any No response:

First Level Lisa Antonson Date 11/10/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1305058

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

Comments on any "No" response: CRDL = 50.0 pCi/g

Second Level Review: Rhonda Jor Date: 11/11/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

11/15/2011 2:05:28 PM

Lot No., Due Date: J1J310440; 11/15/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1305055; RNI63 Ni-63 by LSC
SDG, Matrix: J01313; SOIL

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

6.0 Comments on any No response:

First Level [signature] **Date** 11/15/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1305055

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

Comments on any "No" response: CRDL = 30.0pCi/g

Second Level Review: [signature] Date: 11/17/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): 1305066

Lab Sample Numbers or SDGJ01313

Method/Test/Parameter: **Cr+6 in SOLID / RL-WC-004**

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

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

Comments on any "No" response:
The MS recovered low at 69.6%. The insoluble MS recovered within limits at 108.4%. PDMS recovered at 89.5%.

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

Duplicate not within acceptance criteria possibly due to inhomogeneity of sample.

Analyst: H. Rahavi Date: 11-3-11

Second-Level Review: [signature] Date: 11/3/11

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-19560**
NCM Initiated By: Hooshang Rahavi
Date Opened: 11/03/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Classical Chemistry
Tests: 7196A
Lot #'s (Sample #'s): J1J310440 (1,10,11,12,13,2,3,4,5,6,7,8,9),
QC Batches: 1305066,

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

Problem Description / Root Cause

Name	Date	Description
Hooshang Rahavi	11/03/2011	The MS recovered low at 69.6%. The insoluble MS recovered within limits at 108.4%. PDMS recovered at 89.5%. Suspect reducing capacity in the sample, but not enough to exhaust the more copious insoluble MS. Duplicate not within acceptance criteria possibly due to inhomogeneity of sample.

Corrective Action

Name	Date	Corrective Action
Hooshang Rahavi	11/03/2011	Report data

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 11/3/2011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-191	Page 1 of 6
Collector: Q Stowe	Company Contact: D Woolery; Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 8C 10-27-11
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 100-D-8 Outfall (Below OHWM)	SAF No.: RC-075	Data Turnaround: ~~21~~ 15 Days 10-27-11
Ice Chest No.: N/A	Field Logbook No.: EL-1662; COA: R100D82000	Method of Shipment: HAND DELIVER	
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: N/A	Bill of Lading/Air Bill No.: N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS
None

SDG#J01313

Special Handling and/or Storage
Cool 4 Deg C

Lot#J1J310440

Due 11.15.11

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None	None
Type of Container	G/P	G/P	aG	aG	aG	aG	G/P	G/P	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	0	0	0
Volume	~~60mL~~ 125ml	~~60mL~~ 125ml	125mL	125mL	120mL	125mL	500mL	500mL	500mL	500mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	Semi-VOA - 8270A (TCL)	PAHs - 8310	PCBs - 8082	Pesticides - 8081	See item (2) in Special Instructions.	Carbon-14; Tritium - H3	Nickel-63; Strontium-89,90 -- Total Sr	Isotopic Plutonium

10-27-11 10-27-11

Sample No.	Matrix *	Sample Date	Sample Time									
J1CYL8 MNLC4	SOIL	10-30-11	1430		X				X	X	X	X
J1CYL9 MNLC5	SOIL	10-30-11	1435		X				X	X	X	X
J1CYM0 MNLC6	SOIL	10-30-11	1440		X				X	X	X	X
J1CYM1 MNLC7	SOIL	10-30-11	1415		X				X	X	X	X
J1CYM2 MNLC8	SOIL	10-30-11	1420		X				X	X	X	X

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	10/30/11 1550	D Woolery	10-30-11 1550
D Woolery	10-30-11 1830	1060 Battelle #1A	10-30-11 1830
WCH A. Freier	1060 #1A 10-31-11 1245	TAL Lucas Velazquez	10/31/11 1245

SPECIAL INSTRUCTIONS
None

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV) {Mercury}
(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

Custodian unavailable to remove samples from controlled storage. Shipper removed samples from storage location taking custody of samples for shipment to lab.

CR 10-31-11

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-191	Page 1 of 6
Collector: Q Stowe	Company Contact: D Woolery; Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH	Price Code: 8L, 8C, 10-27-11
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 100-D-8 Outfall (Below OHWM)	SAF No.: RC-075	Data Turnaround: 21 Days, 15, 10-27-11
Ice Chest No.: N/A	Field Logbook No.: EL-1662; COA: R100D82000	Method of Shipment: HAND DELIVER	
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: N/A	Bill of Lading/Air Bill No.: N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

SDG#JC1313
Lot#JJJ310440

Special Handling and/or Storage

~~Cool 4 Deg C~~ NONE
AJ 10-31-11

Preservation	None	None										
Type of Container	G/P	G/P										
No. of Container(s)	0	0										
Volume	500mL	500mL										
SAMPLE ANALYSIS	Isotopic Uranium	Technetium-99 Low Level										
Sample No. / Matrix * / Sample Date / Sample Time												
J1CYL8 / SOIL / 10-30-11 / 1430	X	X										
J1CYL9 / SOIL / 10-30-11 / 1435	X	X										
J1CYM0 / SOIL / 10-30-11 / 1440	X	X										
J1CYM1 / SOIL / 10-30-11 / 1415	X	X										
J1CYM2 / SOIL / 10-30-11 / 1420	X	X										

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	10/30/11 1550	DWOOLERY	10-30-11 1550
DWOOLERY	10-30-11 1830	1060 BATTELLE #1A	10-30-11 1830
A. Freier (WCH)	10-31-11 1245	Lucas Velazquez (TAL)	10/31/11 1245

SPECIAL INSTRUCTIONS
None

Custodian unavailable to remove samples from controlled storage. Shipper removed samples from storage location taking custody of samples for shipment to lab.

10-31-11

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-191	Page 3 of 6

Collector Q Stowe	Company Contact D Woolery	Telephone No. 509-431-0448	Project Coordinator KESSNER, JH
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location 100-D-8 Outfall (Below OHWM)		SAF No. RC-075
Ice Chest No. N/A	Field Logbook No. EL-1662	COA R100D82000	Method of Shipment HAND DELIVER
Shipped To TestAmerica Incorporated, Richland	Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A

Price Code ~~8L~~ 8C 10-27-11

Data Turnaround ~~21~~ 15 Days 10-27-11

POSSIBLE SAMPLE HAZARDS/REMARKS
None

SDG#J01313

Special Handling and/or Storage Lot# J1J310440
Cool 4 Deg C

Due 11.15.11

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None	None
Type of Container	G/P	G/P	aG	aG	aG	aG	G/P	G/P	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	0	0	0
Volume	~~60mL~~ 125ml	~~60mL~~ 125ml	125mL	125mL	120mL	125mL	500mL	500mL	500mL	500mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	Semi-VOA - 8270A (TCL)	PAHs - 8310	PCBs - 8082	Pesticides - 8081	See item (2) in Special Instructions.	Carbon-14; Tritium - H3	Nickel-63; Strontium-89,90 – Total Sr	Isotopic Plutonium

10-27-11

Sample No.	Matrix *	Sample Date	Sample Time									
J1CYM3 MNLC9	SOIL	10-30-11	1425		X					X	X	X	X
J1CYM4 MNLDA	SOIL	10-30-11	1400		X					X	X	X	X
J1CYM5 MNLDD	SOIL	10-30-11	1405		X					X	X	X	X
J1CYM6 MNLDE	SOIL	10-30-11	1410		X					X	X	X	X
J1CYM7 MNLDF	SOIL	10-30-11	1345		X					X	X	X	X

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	10/30/11 1550	DWOOLBRY	10-30-11 1550
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
DWOOLBRY	10-30-11 1830	1060 BATTELLE #1A	10-30-11 1830
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
WCH A. Freier	1245 1060 #1A 10-31-11	TALP Lucas	1245 10/31/11
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS
None

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc} {Mercury - 7471 - (CV) {Mercury}
(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

Custodian unavailable to remove samples from controlled storage. Shipper removed samples from storage location taking custody of samples for shipment to lab.

DATE 10-31-11

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

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

WCH-EE-011

4 D 10-27-11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-191	Page 2 of 6

Collector: Q Stowe	Company Contact: D Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 100-D-8 Outfall (Below OHWM)		SAF No.: RC-075
Ice Chest No.: N/A	Field Logbook No.: EL-1662	COA: R100D82000	Method of Shipment: HAND DELIVER
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: N/A

Price Code: ~~8X~~ 8C D 10-27-11

Data Turnaround: ~~21~~ 15 Days D 10-27-11

POSSIBLE SAMPLE HAZARDS/REMARKS

None

SD G#J01313
Lot#J1J310440
Dec 11-15-11

Special Handling and/or Storage

~~Cool 4 Deg C~~ NONE
AJ 10-31-11

Preservation	None	None										
Type of Container	G/P	G/P										
No. of Container(s)	0	0										
Volume	500mL	500mL										
SAMPLE ANALYSIS	Isotopic Uranium	Technetium-99 Low Level										
Sample No. / Matrix * / Sample Date / Sample Time												
J1CYM3 / SOIL / 10-30-11 / 1425	X	X										
J1CYM4 / SOIL / 10-30-11 / 1400	X	X										
J1CYM5 / SOIL / 10-30-11 / 1405	X	X										
J1CYM6 / SOIL / 10-30-11 / 1410	X	X										
J1CYM7 / SOIL / 10-30-11 / 1335	X	X										

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	10/30/11 1550	DWOOLBRY	10-30-11 1550
DWOOLBRY	10-30-11 1830	1060 BATTELLE #1A	10-30-11 1830
WCH A. Freier	10-31-11 1010 #1A	TAR Lucas Vicuna	10/31/11 1245

SPECIAL INSTRUCTIONS
None

Custodian unavailable to remove samples from controlled storage. Shipper removed samples from storage location taking custody of samples for shipment to lab.

OK 10-31-11

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

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

WCH-EE-011

TestAmerica Laboratories, Inc.

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Washington Closure Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

RC-075-191 | Page ~~2~~ 5 of 6 | 10-27-11

Collector: Q Stowe	Company Contact: D Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 100-D-8 Outfall (Below OHWM)		SAF No.: RC-075
Ice Chest No.: N/A	Field Logbook No.: EL-1662	COA: R100D82000	Method of Shipment: 10-27-11 ~~N/A~~ HAND DELIVER
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: N/A

Price Code: ~~8L~~ 8L 10-27-11 | Data Turnaround: ~~21~~ 15 Days 10-27-11

POSSIBLE SAMPLE ~~HAZARDS~~/REMARKS
None

SDG# J0J313

Special Handling and/or Storage
Cool 4 Deg C

Lot# J13310440

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None	None
Type of Container	G/P	G/P	aG	aG	aG	aG	G/P	G/P	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	0	0	0
Volume 10-27-11	~~60mL~~ 125ml	~~60mL~~ 125ml	125mL	125mL	120mL	125mL	500mL	500mL	500mL	500mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	Semi-VOA - 8270A (TCL)	PAHs - 8310	PCBs - 8082	Pesticides - 8081	See item (2) in Special Instructions.	Carbon-14; Tritium - H3	Nickel-63; Strontium-89,90 – Total Sr	Isotopic Plutonium

10-27-11

Sample No.	Matrix *	Sample Date	Sample Time									
J1CYM8 MNLDG	SOIL	10-30-11	1350		X				X	X	X	X
J1CYM9 MNLDH	SOIL	10-30-11	1355		X				X	X	X	X
J1CYN0 MNLDJ	SOIL	10-30-11	1345		X				X	X	X	X
~~J1CYN1~~ 10-30-11	SOIL											
~~J1CYN2~~	SOIL	10-27-11										

D SW EB

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	10/30/11 1550	DWoolery	10-30-11 1550
DWoolery	10-30-11 1830	1000 Battelle #1A	10-30-11 1830
A-Freier	10-31-11 1245	Lucas Vickers	10/31/11 1245

SPECIAL INSTRUCTIONS
None

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV) {Mercury}
(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

Custodian unavailable to remove samples from controlled storage. Shipper removed samples from storage location taking custody of samples for shipment to lab.

COK 10-31-11

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-191	Page 6 of 6
Collector: Q Stowe	Company Contact: D Woolery; Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 8C; Data Turnaround: ~~21~~ 15 Days
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 100-D-8 Outfall (Below OHWM)	SAF No.: RC-075	10-27-11
Ice Chest No.: N/A	Field Logbook No.: EL-1662; COA: R100D82000	Method of Shipment: HAND DELIVER	10-27-11
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: N/A	Bill of Lading/Air Bill No.: N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

~~Cool 4 Deg C~~ NA
AJ 10-31-11

Preservation	None	None									
Type of Container	G/P	G/P									
No. of Container(s)	0	0									
Volume	500mL	500mL									
SAMPLE ANALYSIS	Isotopic Uranium	Technetium-99 Low Level									
Sample No. / Matrix * / Sample Date / Sample Time											
J1CYM8 / SOIL / 10-30-11 / 1350	X	X									
J1CYM9 / SOIL / 10-30-11 / 1355	X	X									
J1CYN0 / SOIL / 10-30-11 / 1345	X	X									
~~J1CYN1~~ 10-30-11 / SOIL											
~~J1CYN2~~ / SOIL / 10-27-11											

D
SW
EB

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	10/30/11 1550	D Woolery	10-30-11 1550
D Woolery	10-30-11 1830	1060 Battelle #1A	10-30-11 1830
WCH 1060 #1A A Freier	10-31-11 1245	TALR Lucas Velazquez	10/31/11 1245

SPECIAL INSTRUCTIONS

None

Custodian unavailable to remove samples from controlled storage. Shipper removed samples from storage location taking custody of samples for shipment to lab.

10-31-11

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

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

WCH-EE-011

Analysis Report for RCF30723

J1CYM4...BAG SAF:RC-075 100D/100-D-8 B0HWM SOILS

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF30723
Sample Description	: J1CYM4...BAG SAF:RC-075 100D/100-D-8 B0HWM SOILS
Sample Type	: COC Bagged Composite Samples
Sample Size	: 5.710E+02 grams
Facility	: Default
Sample Taken On	: 10/30/2011 2:00:00PM
Acquisition Started	: 10/30/2011 4:49:59PM
Procedure	: COC Bagged Composite Samples
Operator	: RCT
Detector Name	: OLI2
Geometry	: Non Standard Geometry
Live Time	: 1800.0 seconds
Real Time	: 1801.8 seconds
Dead Time	: 0.10 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 40 - 4096
Peak Area Range (in channels)	: 40 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/30/2011
Efficiency Calibration Used Done On	: 10/19/2011
Efficiency Calibration Description	: OLI2 NSTD EC101711 SN 85268-238
Sample Number	: 20624

QUALITATIVE ONLY

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		0.999	2.24E+00	5.37E-01	
CS-137		0.989	2.73E-02	2.15E-02	
RA-226d	@	0.345	1.03E-01	3.33E-02	

Analysis Report for RCF30722

J1CYL8...BAG SAF:RC-075 100D/100-D-8 B0HWM SOILS

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF30722
Sample Description	: J1CYL8...BAG SAF:RC-075 100D/100-D-8 B0HWM SOILS
Sample Type	: COC Bagged Composite Samples
Sample Size	: 5.140E+02 grams
Facility	: Default
Sample Taken On	: 10/30/2011 2:25:00PM
Acquisition Started	: 10/30/2011 4:18:32PM
Procedure	: COC Bagged Composite Samples
Operator	: RCT
Detector Name	: OLI2
Geometry	: Non Standard Geometry
Live Time	: 1800.0 seconds
Real Time	: 1802.1 seconds
Dead Time	: 0.12 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 40 - 4096
Peak Area Range (in channels)	: 40 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/30/2011
Efficiency Calibration Used Done On	: 10/19/2011
Efficiency Calibration Description	: OLI2 NSTD EC101711 SN 85268-238
Sample Number	: 20620

QUALITATIVE ONLY

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		0.992	2.39E+00	6.55E-01	
CS-137		0.999	9.49E-02	3.46E-02	
EU-152		0.388	2.00E-01	4.10E-02	
RA-226d	@	0.348	1.10E-01	3.93E-02	
TH-232d		0.433	1.27E-01	3.50E-02	

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Sample Check-in List

Date/Time Received: 10-31-11 | 1245 Container GM Screen Result: (Airlock) .106 Initials [BB]
Sample GM Screen Result (Sample Receiving) .06 Initials [BB]

Client: WCH SDG #: J01313 NA [ ] SAF #: RC-075 NA [BB]

Lot Number: J1J310440

Chain of Custody # RC-075-191

Shipping Container ID: hand deliv. NA [ ] Air Bill Number: NA [BB]

Samples received inside shipping container/cooler/box Yes [BB] Continue with 1 through 4. Initial appropriate response.

No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [BB]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [BB]
3. Cooler temperature: 2 °C ~~NA [ ]~~ [BB] 10-31-11
4. Vermiculite/packing materials is NA [BB] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [BB] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): ~~20~~ 13 CK 10-31-11
7. Containers received: ~~20 x 125 mLP~~ 13 x 125 mLP; 13 x 500 mLP CK 10-31-11
8. Sample holding times exceeded? NA [ ] Yes [ ] No [BB]
9. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   [BB] appropriate sample labels
10. Matrix:
    [BB] A (FLT, Wipe, Solid, Soil)
    _____S (Air, Niosh 7400)
    _____I (Water)
    _____T (Biological, Ni-63)
11. Samples:
    [BB] are in good condition
    _____are broken
    _____are leaking
    _____have air bubbles (Only for samples requiring no head space)
    _____Other _____
12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA [BB]
    (If acidification is necessary, then document sample ID, initial pH, amount of HNO_3 added and pH after addition on table overleaf)
    RPL ID # of preservative used : N/A
13. Were any anomalies identified in sample receipt? Yes [ ] No [BB]
14. Description of anomalies (include sample numbers): NA [BB]

LS-023, Rev. 15, 07/11 See over for additional information.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

15. Sample Location, Sample Collector Listed on COC? * Yes [✓] No [ ]
*For documentation only. No corrective action needed.

16. Additional Information: Chain Re-075-191 (pg. 6086) Received by signature box was missed during receiving. Receiving Technician was made aware of their error when project manager noted the missed signature. AW 11/1/11

[ ] Client/Courier denied temperature check. [✓] Client/Courier unpack cooler.

Sample Custodian: [signature] Date: 10-31-11

Client Informed on 11/1/11 by Phone Person contacted J. Kessner

[✓] No action necessary; process as is

Project Manager [signature] Date 11/1/11

SAMPLE ID	Initial pH	Acid Amt	Final pH	SAMPLE ID	Initial pH	Acid Amt	Final pH

DS 10-31-11

DS 10-31-11

JIJ310440 AW 11/1/11

LS-023, Rev. 15, 07/11

See over for additional information.

11/14/2011 1:48:38 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

6A Pu Prp PRP003/PRP005, Sep ALP002(ALP015)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 11/15/2011

Sep1 DT/Tm Tech:

Batch: 1318074 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: SannohS,BouslaughP

TestAmerica Laboratories, Inc.

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MNLC4-2-AF J1J310440-1-SAMP 10/30/2011 14:30			1.00g,in AmtRec: 1X125P, 1X500P	1.00g	PUTC12521 09/20/11,pd 01/01/10,r #Containers: 2				50 Scr:	Alpha:		Beta:	
2 MNLC5-2-AF J1J310440-2-SAMP 10/30/2011 14:35			1.00g,in AmtRec: 1X125P, 1X500P	1.00g	PUTC12522 09/20/11,pd 01/01/10,r #Containers: 2				Scr:	Alpha:		Beta:	
3 MNLC6-2-AF J1J310440-3-SAMP 10/30/2011 14:40			0.99g,in AmtRec: 1X125P, 1X500P	0.99g	PUTC12523 09/20/11,pd 01/01/10,r #Containers: 2				Scr:	Alpha:		Beta:	
4 MNLC7-2-AF J1J310440-4-SAMP 10/30/2011 14:15			1.01g,in AmtRec: 1X125P, 1X500P	1.01g	PUTC12524 09/20/11,pd 01/01/10,r #Containers: 2				Scr:	Alpha:		Beta:	
5 MNLC8-2-AF J1J310440-5-SAMP 10/30/2011 14:20			0.99g,in AmtRec: 1X125P, 1X500P	0.99g	PUTC12525 09/20/11,pd 01/01/10,r #Containers: 2				Scr:	Alpha:		Beta:	
6 MNLC9-2-AF J1J310440-6-SAMP 10/30/2011 14:25			1.00g,in AmtRec: 1X125P, 1X500P	1.00g	PUTC12526 09/20/11,pd 01/01/10,r #Containers: 2				Scr:	Alpha:		Beta:	
7 MNLDA-2-AF J1J310440-7-SAMP 10/30/2011 14:00			0.99g,in AmtRec: 1X125P, 1X500P	0.99g	PUTC12527 09/20/11,pd 01/01/10,r #Containers: 2				Scr:	Alpha:		Beta:	

11/14/2011 1:48:39 PM

Sample Preparation/Analysis

Balance Id:1120373922

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

6A Pu Prp PRP003/PRP005, Sep ALP002(ALP015)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 11/15/2011

Sep1 DT/Tm Tech:

Batch: 1318074 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BouslaughP

TestAmerica Laboratories, Inc.

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MNLDD-2-AF			0.99g,in	0.99g	PUTC12528				50				
J1J310440-8-SAMP					09/20/11,pd 01/01/10,r								
10/30/2011 14:05			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
9 MNLDE-1-AM-X			0.99g,in	0.99g	PUTC12529								
J1J310440-9-DUP					09/20/11,pd 01/01/10,r								
10/30/2011 14:10			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
10 MNLDE-2-AF			1.02g,in	1.02g	PUTC12530								
J1J310440-9-SAMP					09/20/11,pd 01/01/10,r								
10/30/2011 14:10			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
11 MNLDF-2-AF			1.02g,in	1.02g	PUTC12531								
J1J310440-10-SAMP					09/20/11,pd 01/01/10,r								
10/30/2011 13:45			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
12 MNLDG-2-AF			1.01g,in	1.01g	PUTC12532								
J1J310440-11-SAMP					09/20/11,pd 01/01/10,r								
10/30/2011 13:50			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
13 MNLDH-2-AF			1.00g,in	1.00g	PUTC12533								
J1J310440-12-SAMP					09/20/11,pd 01/01/10,r								
10/30/2011 13:55			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
14 MNLDJ-2-AF			1.01g,in	1.01g	PUTC12534								
J1J310440-13-SAMP					09/20/11,pd 01/01/10,r								
10/30/2011 13:45			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:

11/14/2011 1:48:41 PM

Sample Preparation/Analysis

6A Pu Prp PRP003/PRP005, Sep ALP002(ALP015)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Balance Id:1120373922
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,BouslaughP

AnalyDueDate: 11/15/2011

Batch: 1318074 pCi/g
SEQ Batch, Test: None

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MN0WN-1-AA-B			1.01g,in	1.01g	PUTC12535				50				
J1K140000-74-BLK					09/20/11,pd 01/01/10,r								
11/14/2011 10:49 pd			AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:	
16 MN0WN-1-AC-C			1.00g,in	1.00g	PUSK0887								
J1K140000-74-LCS					09/20/11,pd 01/01/10,r								
11/14/2011 10:49 pd			AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:	

Comments: MNLC4-SAMP "CommentsISV-Recount DUP on a Different Detector"

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

MNLC42AF-SAMP Constituent List:

MN0WN1AA-BLK:

MN0WN1AC-LCS:

MNLC42AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MN0WN1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MN0WN1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

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11/18/2011 10:58:33 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/18/2010, 11/23/2011, Batch: '1318074', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1318074						
AC		**Rev1C**	**BouslaughP**	11/14/2011 1:18:05		
SC			nortonj	IsBatched	11/14/2011 10:49:30 AM	ICOC_RADCALC v4.8.49
SC			BouslaughP	InPrep	11/14/2011 1:18:05 PM	RL-PRP-003 REV. 2
SC			WoodT	Prep1C	11/15/2011 12:19:33 AM	RL-PRP-003 REV. 2
SC			LuksicS	Sep2C	11/15/2011 5:38:44 PM	RL-ALP-016 REV. 2
SC			HiattC	CalcC	11/16/2011 4:27:19 PM	RL-CI-008 REV. 2
SC			nortonj	Rev1C	11/18/2011 10:58:21 AM	RL-DR-001 Rev 2
AC			**WoodT**	11/15/2011 12:19:33		
AC			**LuksicS**	11/15/2011 5:38:44		
AC			**HiattC**	11/16/2011 4:27:19		
AC			**nortonj**	11/18/2011 10:58:21		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 5

ICOCFractions v4.8.44

11/14/2011 3:02:30 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

7S Ulso Prp PRP003/PRP005, Sep ALP009(ALP015)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 11/15/2011

Sep1 DT/Tm Tech:

Batch: 1318082 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: SannohS,BouslaughP

TestAmerica Laboratories, Inc.

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MNLC4-2-AC J1J310440-1-SAMP 10/30/2011 14:30			0.99g,in AmtRec: 1X125P, 1X500P	0.99g	UITC27542 09/30/11,pd 06/15/01,r #Containers: 2					Scr:	Alpha:	Beta:	
2 MNLC5-2-AC J1J310440-2-SAMP 10/30/2011 14:35			0.99g,in AmtRec: 1X125P, 1X500P	0.99g	UITC27543 09/30/11,pd 06/15/01,r #Containers: 2					Scr:	Alpha:	Beta:	
3 MNLC6-2-AC J1J310440-3-SAMP 10/30/2011 14:40			1.01g,in AmtRec: 1X125P, 1X500P	1.01g	UITC27544 09/30/11,pd 06/15/01,r #Containers: 2					Scr:	Alpha:	Beta:	
4 MNLC7-2-AC J1J310440-4-SAMP 10/30/2011 14:15			1.00g,in AmtRec: 1X125P, 1X500P	1.00g	UITC27545 09/30/11,pd 06/15/01,r #Containers: 2					Scr:	Alpha:	Beta:	
5 MNLC8-2-AC J1J310440-5-SAMP 10/30/2011 14:20			0.99g,in AmtRec: 1X125P, 1X500P	0.99g	UITC27546 09/30/11,pd 06/15/01,r #Containers: 2					Scr:	Alpha:	Beta:	
6 MNLC9-2-AC J1J310440-6-SAMP 10/30/2011 14:25			1.01g,in AmtRec: 1X125P, 1X500P	1.01g	UITC27547 09/30/11,pd 06/15/01,r #Containers: 2					Scr:	Alpha:	Beta:	
7 MNLDA-2-AC J1J310440-7-SAMP 10/30/2011 14:00			1.00g,in AmtRec: 1X125P, 1X500P	1.00g	UITC27548 09/30/11,pd 06/15/01,r #Containers: 2					Scr:	Alpha:	Beta:	

11/14/2011 3:02:32 PM

Sample Preparation/Analysis

Balance Id:1120373922

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

7S Uiso Prp PRP003/PRP005, Sep ALP009(ALP015)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 11/15/2011

Sep1 DT/Tm Tech:

Batch: 1318082 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BouslaughP

TestAmerica Laboratories, Inc.

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MNLDD-1-AM-X			1.01g,in	1.01g	UITC27549				50				
J1J310440-8-DUP					09/30/11,pd 06/15/01,r								
10/30/2011 14:05			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
9 MNLDD-2-AC			1.00g,in	1.00g	UITC27550								
J1J310440-8-SAMP					09/30/11,pd 06/15/01,r								
10/30/2011 14:05			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
10 MNLDE-2-AC			1.01g,in	1.01g	UITC27551								
J1J310440-9-SAMP					09/30/11,pd 06/15/01,r								
10/30/2011 14:10			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
11 MNLDF-2-AC			1.01g,in	1.01g	UITC27552								
J1J310440-10-SAMP					09/30/11,pd 06/15/01,r								
10/30/2011 13:45			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
12 MNLDG-2-AC			1.01g,in	1.01g	UITC27553								
J1J310440-11-SAMP					09/30/11,pd 06/15/01,r								
10/30/2011 13:50			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
13 MNLDH-2-AC			1.01g,in	1.01g	UITC27554								
J1J310440-12-SAMP					09/30/11,pd 06/15/01,r								
10/30/2011 13:55			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
14 MNLDJ-2-AC			1.01g,in	1.01g	UITC27555								
J1J310440-13-SAMP					09/30/11,pd 06/15/01,r								
10/30/2011 13:45			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:

11/14/2011 3:02:33 PM

Sample Preparation/Analysis

7S Uiso Prp PRP003/PRP005, Sep ALP009(ALP015)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Balance Id:1120373922

Pipet #: _____

AnalyDueDate: 11/15/2011

Sep1 DT/Tm Tech:

Batch: 1318082 pCi/g

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BouslaughP

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MN0WQ-1-AA-B			1.03g,in	1.03g	UITC27556				50				
J1K140000-82-BLK					09/30/11,pd 06/15/01,r								
11/14/2011 10:48 pd			AmtRec:		#Containers: 1				Scr:		Alpha:		Beta:
16 MN0WQ-1-AC-C			0.98g,in	0.98g	UISH1420								
J1K140000-82-LCS					08/12/11,pd 06/15/01,r								
11/14/2011 10:48 pd			AmtRec:		#Containers: 1				Scr:		Alpha:		Beta:

Comments: MNLC4-SAMP "CommentsISV-Recount DUP on a Different Detector"

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

MNLC42AC-SAMP Constituent List:

MN0WQ1AA-BLK:

MN0WQ1AC-LCS:

MNLC42AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MN0WQ1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MN0WQ1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.
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PRIORITY

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RE-COUNT REQUEST

DUE DATE 11-15

CUSTOMER WCH

ANALAYSIS U150

MATRIX SOIL

LOT NUMBER JIJ310440

SAMPLE DELIVERY GROUP J01313

OLD BATCH NUMBER 1305059

NEW BATCH NUMBER 1318082

LAB SAMPLE ID	CLIENT ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) MNLDD2AC		HIGH TRACER YIELD
2)		
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		
13)		
14)		
15)		
16)		
17)		
18)		
19)		
20)		

RC-126, 12/07, Rev 5

11/21/2011 9:24:56 AM

Sample Preparation/Analysis

Balance Id:1120373922

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

7S Ulso Prp PRP003/PRP005, Sep ALP009(ALP015)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 11/15/2011

Sep1 DT/Tm Tech:

Batch: 1318082 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 1305048 AXTA, 1305049 CHTH, 1305054 ANS5, 1305055 AFS4, 1305056 ATS6, 1305058 5SS3, 1305059 7SSR, 1305062 6ASO, 1305066 DWEA, 1318074 6ASO, 1318082 7SSR,

Prep Tech: SannohS,BouslaughP

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MNLC4-2-AC			0.99g,in	0.99g	UITC27542								
J1J310440-1-SAMP					09/30/11,pd 06/15/01,r								
10/30/2011 14:30			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
2 MNLC5-2-AC			0.99g,in	0.99g	UITC27543								
J1J310440-2-SAMP					09/30/11,pd 06/15/01,r								
10/30/2011 14:35			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
3 MNLC6-2-AC			1.01g,in	1.01g	UITC27544								
J1J310440-3-SAMP					09/30/11,pd 06/15/01,r								
10/30/2011 14:40			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
4 MNLC7-2-AC			1.00g,in	1.00g	UITC27545								
J1J310440-4-SAMP					09/30/11,pd 06/15/01,r								
10/30/2011 14:15			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
5 MNLC8-2-AC			0.99g,in	0.99g	UITC27546								
J1J310440-5-SAMP					09/30/11,pd 06/15/01,r								
10/30/2011 14:20			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
6 MNLC9-2-AC			1.01g,in	1.01g	UITC27547								
J1J310440-6-SAMP					09/30/11,pd 06/15/01,r								
10/30/2011 14:25			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
7 MNLDA-2-AC			1.00g,in	1.00g	UITC27548								
J1J310440-7-SAMP					09/30/11,pd 06/15/01,r								
10/30/2011 14:00			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:

11/21/2011 9:24:57 AM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

PRIORITY

7S Uiso Prp PRP003/PRP005, Sep ALP009(ALP015)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 11/15/2011

Sep1 DT/Tm Tech:

Batch: 1318082 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BouslaughP

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MNLDD-1-AM-X J1J310440-8-DUP 10/30/2011 14:05			1.01g,in AmtRec: 1X125P, 1X500P	1.01g	UITC27549 09/30/11,pd 06/15/01,r #Containers: 2				Scr:		Alpha:		Beta:
9 MNLDD-2-AC J1J310440-8-SAMP 10/30/2011 14:05			1.00g,in AmtRec: 1X125P, 1X500P	1.00g	UITC27550 09/30/11,pd 06/15/01,r #Containers: 2				Scr:		Alpha:		Beta:
10 MNLDD-3-AC J1J310440-8-SAMP 10/30/2011 14:05			1.00 AmtRec: 1X125P, 1X500P		UITC 27550 #Containers: 2				50 Scr:		Alpha:		Beta:
11 MNLDE-2-AC J1J310440-9-SAMP 10/30/2011 14:10			1.01g,in AmtRec: 1X125P, 1X500P	1.01g	UITC27551 09/30/11,pd 06/15/01,r #Containers: 2				Scr:		Alpha:		Beta:
12 MNLDF-2-AC J1J310440-10-SAMP 10/30/2011 13:45			1.01g,in AmtRec: 1X125P, 1X500P	1.01g	UITC27552 09/30/11,pd 06/15/01,r #Containers: 2				Scr:		Alpha:		Beta:
13 MNLDG-2-AC J1J310440-11-SAMP 10/30/2011 13:50			1.01g,in AmtRec: 1X125P, 1X500P	1.01g	UITC27553 09/30/11,pd 06/15/01,r #Containers: 2				Scr:		Alpha:		Beta:
14 MNLDH-2-AC J1J310440-12-SAMP 10/30/2011 13:55			1.01g,in AmtRec: 1X125P, 1X500P	1.01g	UITC27554 09/30/11,pd 06/15/01,r #Containers: 2				Scr:		Alpha:		Beta:

TestAmerica Laboratories, Inc.

11/21/2011 9:24:57 AM

Sample Preparation/Analysis

Balance Id:1120373922

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

7S Ulso Prp PRP003/PRP005, Sep ALP009(ALP015)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 11/15/2011

Sep1 DT/Tm Tech:

Batch: 1318082 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BouslaughP

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MNLDJ-2-AC			1.01g,in	1.01g	UITC27555								
J1J310440-13-SAMP					09/30/11,pd 06/15/01,r								
10/30/2011 13:45			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
16 MN0WQ-1-AA-B			1.03g,in	1.03g	UITC27556								
J1K140000-82-BLK					09/30/11,pd 06/15/01,r								
11/14/2011 10:48 pd			AmtRec:		#Containers: 1				Scr:		Alpha:		Beta:
17 MN0WQ-1-AC-C			0.98g,in	0.98g	UISH1420								
J1K140000-82-LCS					08/12/11,pd 06/15/01,r								
11/14/2011 10:48 pd			AmtRec:		#Containers: 1				Scr:		Alpha:		Beta:

Comments: MNLC4-SAMP "CommentsISV-Recount DUP on a Different Detector"

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

MNLC42AC-SAMP Constituent List:

U-232	RDL:	pCi/g	LCL:20	UCL:105	RPD:35	U-234	RDL:1	pCi/g	LCL:	UCL:	RPD:
U-235	RDL:1	pCi/g	LCL:	UCL:	RPD:	U-238	RDL:1	pCi/g	LCL:	UCL:	RPD:

MN0WQ1AA-BLK:

U-232	RDL:	pCi/g	LCL:20	UCL:105	RPD:35	U-234	RDL:1	pCi/g	LCL:	UCL:	RPD:
U-235	RDL:1	pCi/g	LCL:	UCL:	RPD:	U-238	RDL:1	pCi/g	LCL:	UCL:	RPD:

MN0WQ1AC-LCS:

U-232	RDL:	pCi/g	LCL:20	UCL:105	RPD:35	Uranium	RDL:	pCi/g	LCL:70	UCL:130	RPD:35

MNLC42AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

11/21/2011 9:24:57 AM

Sample Preparation/Analysis

7S Ulso Prp PRP003/PRP005, Sep ALP009(ALP015)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Balance Id:1120373922

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,BouslaughP

AnalyDueDate: 11/15/2011

Batch: 1318082 pCi/g

SEQ Batch, Test: None

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

MN0WQ1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

MN0WQ1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

11/21/2011 3:26:35 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/21/2010, 11/26/2011, Batch: '1318082', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1318082						
AC		**Rev1C**	**BouslaughP**	11/14/2011 2:16:36		
SC			nortonj	IsBatched	11/14/2011 10:48:29 AM	ICOC_RADCALC v4.8.49
SC			BouslaughP	InPrep	11/14/2011 2:16:36 PM	RL-PRP-003 REV. 2
SC			WoodT	Prep1C	11/15/2011 12:19:24 AM	RL-PRP-003 REV. 2
SC			HayesA	Sep1C	11/16/2011 12:35:43 PM	RL-ALP-004 REV. 2
SC			HoganH	Sep2C	11/17/2011 4:28:03 PM	RL-ALP-015 REV. 2
SC			HiattC	InCnt1	11/17/2011 4:36:08 PM	RL-CI-008 REV. 2
SC			DawkinsO	CalcC	11/18/2011 1:52:22 AM	RL-CI-008 REV. 2
SC			ClarkR	CalcC	11/21/2011 3:14:18 PM	RL-CI-008 REV. 2
SC			nortonj	Rev1C	11/21/2011 3:26:12 PM	RL-DR-001 Rev 2
AC			**WoodT**	11/15/2011 12:19:24		
AC			**HayesA**	11/16/2011 12:35:43		
AC			**HoganH**	11/17/2011 4:28:03		
AC			**HiattC**	11/17/2011 4:36:08		
AC			**DawkinsO**	11/18/2011 1:52:22		
AC			**ClarkR**	11/21/2011 3:14:18		
AC			**nortonj**	11/21/2011 3:26:12		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 8

ICOCFractions v4.8.44

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11/3/2011 8:17:02 AM

Sample Preparation/Analysis

Balance Id:1120373922

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

CH Sr-Total Prp PRP003, Sep GPC003
TH Total Strontium by GPC
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 11/15/2011

Sep1 DT/Tm Tech: 11:30 11/14/11 APA

Batch: 1305049 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 1305048 AXTA, 1305049 CHTH, 1305054 ANS5, 1305055 AFS4, 1305056 ATS6, 1305058 5SS3, 1305059 7SSR, 1305062 6ASO, 1305066 DWEA,

Prep Tech: SannohS,BouslaughP

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MNLC4-1-AD J1J310440-1-SAMP 10/30/2011 14:30			6.00g,in	6.00g	SRTA22090 09/21/11 AmtRec: 1X125P, 1X500P #Containers: 2	1.5	1.4636g -1.4018g 61.8mg	5C Scr:	27A Alpha:	1825		11/14/11 CJH Beta:	
2 MNLC5-1-AD J1J310440-2-SAMP 10/30/2011 14:35			5.99g,in	5.99g	SRTA22091 09/21/11 AmtRec: 1X125P, 1X500P #Containers: 2		1.4685g -1.4060g 62.5mg	27C Scr:	Alpha:			Beta:	
3 MNLC5-1-AL-X J1J310440-2-DUP 10/30/2011 14:35			6.01g,in	6.01g	SRTA22092 09/21/11 AmtRec: 1X125P, 1X500P #Containers: 2		1.4448g -1.3886g 56.2mg	28B Scr:	Alpha:			Beta:	
4 MNLC6-1-AD J1J310440-3-SAMP 10/30/2011 14:40			6.00g,in	6.00g	SRTA22093 09/21/11 AmtRec: 1X125P, 1X500P #Containers: 2		1.4619g -1.4033g 58.6mg	28C Scr:	Alpha:			Beta:	
5 MNLC7-1-AD J1J310440-4-SAMP 10/30/2011 14:15			6.00g,in	6.00g	SRTA22094 09/21/11 AmtRec: 1X125P, 1X500P #Containers: 2		1.4567g -1.3964g 60.3mg	28D Scr:	Alpha:			Beta:	
6 MNLC8-1-AD J1J310440-5-SAMP 10/30/2011 14:20			6.00g,in	6.00g	SRTA22095 09/21/11 AmtRec: 1X125P, 1X500P #Containers: 2		1.4694g -1.4110g 58.4mg	31A Scr:	Alpha:			Beta:	
7 MNLC9-1-AD J1J310440-6-SAMP 10/30/2011 14:25			5.99g,in	5.99g	SRTA22096 09/21/11 AmtRec: 1X125P, 1X500P #Containers: 2		1.4549g -1.4007g 54.2mg	31B Scr:	Alpha:			Beta:	

TestAmerica Laboratories, Inc.

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11/3/2011 8:17:04 AM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

CH Sr-Total Prp PRP003, Sep GPC003
TH Total Strontium by GPC
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 11/15/2011

Sep1 DT/Tm Tech:

Batch: 1305049 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BouslaughP

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MNLDA-1-AD J1J310440-7-SAMP 10/30/2011 14:00			6.01g,in	6.01g	SRTA22097 09/21/11 AmtRec: 1X125P, 1X500P #Containers: 2	1.5	1.4436g -1.3895g 54.1mg	50		31D	1825	11/14/11	CJH OP
9 MNLDD-1-AD J1J310440-8-SAMP 10/30/2011 14:05			5.99g,in	5.99g	SRTA22098 09/21/11 AmtRec: 1X125P, 1X500P #Containers: 2		1.4649g -1.4045g 60.4mg			32A			
10 MNLDE-1-AD J1J310440-9-SAMP 10/30/2011 14:10			6.01g,in	6.01g	SRTA22099 09/21/11 AmtRec: 1X125P, 1X500P #Containers: 2		1.4557g -1.3933g 62.4mg			32B			
11 MNLDF-1-AD J1J310440-10-SAMP 10/30/2011 13:45			6.00g,in	6.00g	SRTA22100 09/21/11 AmtRec: 1X125P, 1X500P #Containers: 2		1.4565g -1.3970g 59.5mg			32C			
12 MNLDG-1-AD J1J310440-11-SAMP 10/30/2011 13:50			5.99g,in	5.99g	SRTA22271 10/31/11 AmtRec: 1X125P, 1X500P #Containers: 2		1.4567g -1.3974g 59.3mg			32D			
13 MNLDH-1-AD J1J310440-12-SAMP 10/30/2011 13:55			5.99g,in	5.99g	SRTA22272 10/31/11 AmtRec: 1X125P, 1X500P #Containers: 2		1.4633g -1.4056g 57.7mg			32A	1940		
14 MNLDJ-1-AD J1J310440-13-SAMP 10/30/2011 13:45			6.00g,in	6.00g	SRTA22273 10/31/11 AmtRec: 1X125P, 1X500P #Containers: 2		1.4603g -1.3987g 61.6mg			32B			

Scr: Alpha: Beta:

TestAmerica Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2
pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 14
Prep_SamplePrep v4.8.56

TestAmerica Laboratories, Inc.

11/3/2011 8:17:05 AM

Sample Preparation/Analysis

CH Sr-Total Prp PRP003, Sep GPC003
TH Total Strontium by GPC
5I CLIENT: HANFORD

Balance Id:1120373922
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,BouslaughP

AnalyDueDate: 11/15/2011

Batch: 1305049 pCi/g
SEQ Batch, Test: None

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MNLT0-1-AA-B J1K010000-49-BLK 11/01/2011 08:44 pd			6.00g,in AmtRec:	6.00g #Containers: 1	SRTA22274 10/31/11		1.5	1.4709g50 -1.3850g 85.9mg	Scr:	32D Alpha:	1940	Beta:	11/14/11 OAD
16 MNLT0-1-AC-C J1K010000-49-LCS 11/01/2011 08:44 pd			5.98g,in AmtRec:	5.98g #Containers: 1	STSB1704 09/21/11			1.4921g -1.4041g 88.0mg	Scr:	32C Alpha:		Beta:	

Comments: MNLC4-SAMP "CommentsISV-Recount DUP on a Different Detector"

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

MNLC41AD-SAMP Constituent List:
Sr-90 RDL:1 pCi/g LCL:70 UCL:130 RPD:35
MNLT01AA-BLK:
Sr-90 RDL:1 pCi/g LCL: UCL: RPD:
MNLT01AC-LCS:
Sr-90 RDL:1 pCi/g LCL:70 UCL:130 RPD:35

MNLC41AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MNLT01AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MNLT01AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

11/15/2011 10:01:31 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/15/2010, 11/20/2011, Batch: '1305049', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1305049						
AC		**Rev1C**	**BouslaughP**	11/3/2011 7:39:35		
SC			wagarr	IsBatched	11/1/2011 8:46:36 AM	ICOC_RADCALC v4.8.49
SC			BouslaughP	InPrep	11/3/2011 7:39:35 AM	RL-PRP-003 REV. 2
SC			BouslaughP	Prep1C	11/4/2011 9:13:04 AM	RL-PRP-003 REV. 2
SC			AshworthA	Sep2C	11/14/2011 2:14:04 PM	RL-GPC-003 REV. 2
SC			HiattC	InCnt1	11/14/2011 2:22:32 PM	RL-CI-006 REV. 2
SC			DawkinsO	CalcC	11/15/2011 12:55:34 AM	RL-CI-006 REV. 2
SC			nortonj	Rev1C	11/15/2011 10:01:18 AM	RL-DR-001 Rev 2
AC			**BouslaughP**	11/4/2011 9:13:04		
AC			**AshworthA**	11/14/2011 2:14:04		
AC			**HiattC**	11/14/2011 2:22:32		
AC			**DawkinsO**	11/15/2011 12:55:34		
AC			**nortonj**	11/15/2011 10:01:18		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.44

11/2/2011 2:01:51 PM

Sample Preparation/Analysis

Balance Id:1120421763

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

AX Gamma Prp PRP003/GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 11/15/2011

Sep1 DT/Tm Tech:

Batch: 1305048 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 1305048 AXTA, 1305049 CHTH, 1305054 ANS5, 1305055 AFS4, 1305056 ATS6, 1305058 5SS3, 1305059 7SSR, 1305062 6ASO, 1305066 DWEA,

Prep Tech: SannohS

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MNLC4-1-AJ J1J310440-1-SAMP 10/30/2011 14:30			365.50g,in	365.50g				200	200 min	G10		0319	11/11/2011
2 MNLC4-1-AL-X J1J310440-1-DUP 10/30/2011 14:30										G13		1807	11/12/2011
3 MNLC5-1-AJ J1J310440-2-SAMP 10/30/2011 14:35			339.50g,in	339.50g						G11		0320	11/12/2011
4 MNLC6-1-AJ J1J310440-3-SAMP 10/30/2011 14:40			340.50g,in	340.50g						G14		0321	
5 MNLC7-1-AJ J1J310440-4-SAMP 10/30/2011 14:15			345.00g,in	345.00g						G10		1809	
6 MNLC8-1-AJ J1J310440-5-SAMP 10/30/2011 14:20			314.80g,in	314.80g						G7		1809	
7 MNLC9-1-AJ J1J310440-6-SAMP 10/30/2011 14:25			323.40g,in	323.40g						G14		1810	

Scr: Alpha: Beta:

AmtRec: 1X125P, 1X500P #Containers: 2

TestAmerica Laboratories, Inc.

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TestAmerica Richland Wa. Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Page 1

ISV - Insufficient Volume for Analysis

WO Cnt: 7

Prep_SamplePrep v4.8.56

11/2/2011 2:01:52 PM

Sample Preparation/Analysis

Balance Id:1120421763

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AX Gamma Prp PRP003/GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 11/15/2011

Sep1 DT/Tm Tech:

Batch: 1305048 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MNLDA-1-AJ J1J310440-7-SAMP 10/30/2011 14:00			359.70g,in AmtRec: 1X125P, 1X500P	359.70g #Containers: 2				200	200 min	G11	1811	11/12/11	Scr: Alpha: Beta:
9 MNLDD-1-AJ J1J310440-8-SAMP 10/30/2011 14:05			374.10g,in AmtRec: 1X125P, 1X500P	374.10g #Containers: 2						G13	2142		Scr: Alpha: Beta:
10 MNLDE-1-AJ J1J310440-9-SAMP 10/30/2011 14:10			333.80g,in AmtRec: 1X125P, 1X500P	333.80g #Containers: 2						G10	2143		Scr: Alpha: Beta:
11 MNLDF-1-AJ J1J310440-10-SAMP 10/30/2011 13:45			344.00g,in AmtRec: 1X125P, 1X500P	344.00g #Containers: 2						G7	2144		Scr: Alpha: Beta:
12 MNLDG-1-AJ J1J310440-11-SAMP 10/30/2011 13:50			364.20g,in AmtRec: 1X125P, 1X500P	364.20g #Containers: 2						G14	2144		Scr: Alpha: Beta:
13 MNLDH-1-AJ J1J310440-12-SAMP 10/30/2011 13:55			365.80g,in AmtRec: 1X125P, 1X500P	365.80g #Containers: 2						G13	0137		Scr: Alpha: Beta:
14 MNLDJ-1-AJ J1J310440-13-SAMP 10/30/2011 13:45			402.40g,in AmtRec: 1X125P, 1X500P	402.40g #Containers: 2						G10			Scr: Alpha: Beta:

TestAmerica Laboratories, Inc.

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TestAmerica Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Page 2

ISV - Insufficient Volume for Analysis

WO Cnt: 14

Prep_SamplePrep v4.8.56

11/2/2011 2:01:52 PM

Sample Preparation/Analysis

AX Gamma Prp PRP003/GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

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

AnalyDueDate: 11/15/2011

Batch: 1305048 pCi/g
SEQ Batch, Test: None

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MNLTR-1-AA-B J1K010000-48-BLK 11/01/2011 08:44 pd			348.00g,in AmtRec:	348.00g #Containers: 1				200	200min	G7 Scr:	0138 Alpha:	11/02/11 0700 Beta:	
16 MNLTR-1-AC-C J1K010000-48-LCS 11/01/2011 08:44 pd			350.10g,in AmtRec:	350.10g #Containers: 1	qc20009 08/04/09,pd 09/01/09,r					G14 Scr:	0139 Alpha:	Beta:	

Comments: MNLC4-SAMP "CommentsISV-Recount DUP on a Different Detector"

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

MNLC41AJ-SAMP Constituent List:

Co-60	RDL:5.00E-02	pCi/g	LCL:	UCL:	RPD:	Cs-137	RDL:1.00E-01	pCi/g	LCL:70	UCL:130	RPD:35
Cs-137DA	RDL:1.00E-01	pCi/g	LCL:70	UCL:130	RPD:35	Eu-152	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:
Eu-154	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:	Eu-155	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:

MNLTR1AA-BLK:

Co-60	RDL:5.00E-02	pCi/g	LCL:	UCL:	RPD:	Cs-137	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:
Cs-137DA	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:	Eu-152	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:
Eu-154	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:	Eu-155	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:

MNLTR1AC-LCS:

Cs-137	RDL:0.1	pCi/g	LCL:70	UCL:130	RPD:35	Cs-137DA	RDL:0.1	pCi/g	LCL:70	UCL:130	RPD:35
K-40	RDL:--	pCi/g	LCL:70	UCL:130	RPD:35	Ra-226	RDL:0.1	pCi/g	LCL:70	UCL:130	RPD:35
RA-228	RDL:0.2	pCi/g	LCL:70	UCL:130	RPD:35	RA-228DA	RDL:0.2	pCi/g	LCL:70	UCL:130	RPD:35
U-238	RDL:	pCi/g	LCL:70	UCL:130	RPD:35						

MNLC41AJ-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MNLTR1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

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11/2/2011 2:01:53 PM

Sample Preparation/Analysis

AX Gamma Prp PRP003/GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Balance Id:

Pipet #: _____

AnalyDueDate: 11/15/2011

Sep1 DT/Tm Tech:

Batch: 1305048 pCi/g

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: SannohS

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

MNLTR1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

11/16/2011 9:14:20 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/16/2010, 11/21/2011, Batch: '1305048', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1305048						
AC		**Rev1C**	**SannohS**	11/2/2011 7:27:04		
SC			wagarr	IsBatched	11/1/2011 8:46:36 AM	ICOC_RADCALC v4.8.49
SC			SannohS	InPrep	11/2/2011 7:27:04 AM	RL-GAM-001 Revision 2
SC			BouslaughP	InPrep	11/2/2011 9:54:12 AM	RL-GAM-001 Revision 2
SC			ClarkR	InCnt1	11/2/2011 3:32:22 PM	RL-CI-007 REV. 2
SC			DawkinsO	CalcC	11/14/2011 9:06:44 PM	RL-CI-007 REV. 2
SC			nortonj	Rev1C	11/15/2011 2:05:14 PM	RL-DR-001 Rev 2
AC			**BouslaughP**	11/2/2011 9:54:12		
AC			**ClarkR**	11/2/2011 3:32:22 PM		
AC			**DawkinsO**	11/14/2011 9:06:44		
AC			**nortonj**	11/15/2011 2:05:14		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 5

ICOCFractions v4.8.44

11/2/2011 3:35:12 PM

Sample Preparation/Analysis

Balance Id:1120373922

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

AN Tc-99 Prp/Sep PRP003/LSC013
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 11/15/2011

Sep1 DT/Tm Tech:

Batch: 1305054 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 1305048 AXTA, 1305049 CHTH, 1305054 ANS5, 1305055 AFS4, 1305056 ATS6, 1305058 5SS3, 1305059 7SSR, 1305062 6ASO, 1305066 DWEA,

Prep Tech: SannohS,BouslaughP

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MNLC4-1-AG J1J310440-1-SAMP 10/30/2011 14:30			2.00g,in	2.00g	AmtRec: 1X125P, 1X500P	#Containers: 2			60	Scr:	Alpha:	Beta:	
2 MNLC5-1-AG J1J310440-2-SAMP 10/30/2011 14:35			2.00g,in	2.00g	AmtRec: 1X125P, 1X500P	#Containers: 2				Scr:	Alpha:	Beta:	
3 MNLC6-1-AG J1J310440-3-SAMP 10/30/2011 14:40			2.00g,in	2.00g	AmtRec: 1X125P, 1X500P	#Containers: 2				Scr:	Alpha:	Beta:	
4 MNLC6-1-AL-X J1J310440-3-DUP 10/30/2011 14:40			2.00g,in	2.00g	AmtRec: 1X125P, 1X500P	#Containers: 2				Scr:	Alpha:	Beta:	
5 MNLC7-1-AG J1J310440-4-SAMP 10/30/2011 14:15			2.01g,in	2.01g	AmtRec: 1X125P, 1X500P	#Containers: 2				Scr:	Alpha:	Beta:	
6 MNLC7-1-AL-S J1J310440-4-MS 10/30/2011 14:15			2.00g,in	2.00g	AmtRec: 1X125P, 1X500P	TCSG3160 07/28/11,pd 07/01/05,r #Containers: 2				Scr:	Alpha:	Beta:	
7 MNLC8-1-AG J1J310440-5-SAMP 10/30/2011 14:20			1.99g,in	1.99g	AmtRec: 1X125P, 1X500P	#Containers: 2				Scr:	Alpha:	Beta:	

TestAmerica Laboratories, Inc.

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TestAmerica Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1
pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 7

Prep_SamplePrep v4.8.56

11/2/2011 3:35:13 PM

Sample Preparation/Analysis

Balance Id:1120373922

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

AN Tc-99 Prp/Sep PRP003/LSC013
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 11/15/2011

Sep1 DT/Tm Tech:

Batch: 1305054 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BouslaughP

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MNLC9-1-AG J1J310440-6-SAMP 10/30/2011 14:25			2.00g,in	2.00g					60				
			AmtRec: 1X125P, 1X500P	#Containers: 2						Scr:	Alpha:		Beta:
9 MNLDA-1-AG J1J310440-7-SAMP 10/30/2011 14:00			2.00g,in	2.00g									
			AmtRec: 1X125P, 1X500P	#Containers: 2						Scr:	Alpha:		Beta:
10 MNLDD-1-AG J1J310440-8-SAMP 10/30/2011 14:05			2.01g,in	2.01g									
			AmtRec: 1X125P, 1X500P	#Containers: 2						Scr:	Alpha:		Beta:
11 MNLDE-1-AG J1J310440-9-SAMP 10/30/2011 14:10			1.99g,in	1.99g									
			AmtRec: 1X125P, 1X500P	#Containers: 2						Scr:	Alpha:		Beta:
12 MNLDF-1-AG J1J310440-10-SAMP 10/30/2011 13:45			2.02g,in	2.02g									
			AmtRec: 1X125P, 1X500P	#Containers: 2						Scr:	Alpha:		Beta:
13 MNLDG-1-AG J1J310440-11-SAMP 10/30/2011 13:50			2.00g,in	2.00g									
			AmtRec: 1X125P, 1X500P	#Containers: 2						Scr:	Alpha:		Beta:
14 MNLDH-1-AG J1J310440-12-SAMP 10/30/2011 13:55			2.00g,in	2.00g									
			AmtRec: 1X125P, 1X500P	#Containers: 2						Scr:	Alpha:		Beta:

TestAmerica Laboratories, Inc.

11/2/2011 3:35:15 PM

Sample Preparation/Analysis

Balance Id:1120373922

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

AN Tc-99 Prp/Sep PRP003/LSC013
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 11/15/2011

Sep1 DT/Tm Tech:

Batch: 1305054 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BouslaughP

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MNLDJ-1-AG J1J310440-13-SAMP 10/30/2011 13:45			2.00g,in	2.00g					60				
			AmtRec: 1X125P, 1X500P		#Containers: 2								
									Scr:		Alpha:		Beta:
16 MNLT6-1-AA-B J1K010000-54-BLK 11/01/2011 08:44 pd			2.00g,in	2.00g									
			AmtRec:		#Containers: 1								
									Scr:		Alpha:		Beta:
17 MNLT6-1-AC-C J1K010000-54-LCS 11/01/2011 08:44 pd			2.01g,in	2.01g	TCSF2411 10/04/11,pd 07/01/05,r								
			AmtRec:		#Containers: 1								
									Scr:		Alpha:		Beta:
18 MNLT6-1-AD-BN J1K010000-54-IBLK 11/01/2011 08:44 pd													
			AmtRec:		#Containers: 1								
									Scr:		Alpha:		Beta:
19 MNLT6-1-AE-BN J1K010000-54-IBLK 11/01/2011 08:44 pd													
			AmtRec:		#Containers: 1								
									Scr:		Alpha:		Beta:

Comments: MNLC4-SAMP "CommentsISV-Recount DUP on a Different Detector"

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

MNLC41AG-SAMP Constituent List:

Sample Preparation/Analysis

AN Tc-99 Prp/Sep PRP003/LSC013
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

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

AnalyDueDate: 11/15/2011

Batch: 1305054 pCi/g
SEQ Batch, Test: None

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

```
  Tc-99        RDL:15          pCi/g     LCL:70      UCL:130     RPD:35
MNLC71AL-MS:

MNLT61AA-BLK:
  Tc-99        RDL:15          pCi/g     LCL:        UCL:        RPD:
MNLT61AC-LCS:
  Tc-99        RDL:15          pCi/g     LCL:70      UCL:130     RPD:35
MNLT61AD-IBLK:
  Tc-99        RDL:15          pCi/g     LCL:        UCL:        RPD:
MNLT61AE-IBLK:
  Tc-99        RDL:15          pCi/g     LCL:        UCL:        RPD:
MNLC41AG-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MNLC71AL-MS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MNLT61AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MNLT61AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MNLT61AD-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MNLT61AE-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```


TestAmerica Laboratories, Inc.

11/15/2011 2:18:45 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/15/2010, 11/20/2011, Batch: '1305054', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1305054						
AC		**Rev1C**	**BouslaughP**	11/2/2011 3:00:39 PM		
SC			wagarr	IsBatched	11/1/2011 8:46:36 AM	ICOC_RADCALC v4.8.49
SC			BouslaughP	InPrep	11/2/2011 3:00:39 PM	RL-PRP-003 REV. 2
SC			BouslaughP	Prep1C	11/3/2011 1:20:41 PM	RL-PRP-003 REV. 2
SC			LuksicS	Sep2C	11/11/2011 5:28:08 PM	RL-LSC-013 REV. 2
SC			DawkinsO	InCnt1	11/11/2011 6:15:29 PM	RL-CI-005 REV. 2
SC			DawkinsO	CalcC	11/15/2011 12:53:29 AM	RL-CI-005 REV. 2
SC			antonsonl	Rev1C	11/15/2011 2:18:13 PM	RL-DR-001 Rev 2
AC			**BouslaughP**	11/3/2011 1:20:41 PM		
AC			**LuksicS**	11/11/2011 5:28:08		
AC			**DawkinsO**	11/11/2011 6:15:29		
AC			**DawkinsO**	11/15/2011 12:53:29		
AC			**antonsonl**	11/15/2011 2:18:13		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 6

ICOCFractions v4.8.44

11/1/2011 8:45:01 AM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AT H-3 Prp/Sep LSC002
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 11/15/2011 J01313

Batch: 1305056 **SOIL** **pCi/g**
SEQ Batch, Test: None

PM, Quote: RW2, 27038

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

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MNLC4-1-AH													
J1J310440-1-SAMP													
10/30/2011 14:30			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
2 MNLC5-1-AH													
J1J310440-2-SAMP													
10/30/2011 14:35			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
3 MNLC6-1-AH													
J1J310440-3-SAMP													
10/30/2011 14:40			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
4 MNLC7-1-AH													
J1J310440-4-SAMP													
10/30/2011 14:15			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
5 MNLC8-1-AH													
J1J310440-5-SAMP													
10/30/2011 14:20			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
6 MNLC9-1-AH													
J1J310440-6-SAMP													
10/30/2011 14:25			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
7 MNLC9-1-AL-X													
J1J310440-6-DUP													
10/30/2011 14:25			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:

11/1/2011 8:45:02 AM

Sample Preparation/Analysis

Balance Id:

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AT H-3 Prp/Sep LSC002
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Pipet #:

Sep1 DT/Tm Tech:

AnalyDueDate: 11/15/2011

Batch: 1305056 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MNLDA-1-AH J1J310440-7-SAMP 10/30/2011 14:00			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
9 MNLDD-1-AH J1J310440-8-SAMP 10/30/2011 14:05			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
10 MNLDE-1-AH J1J310440-9-SAMP 10/30/2011 14:10			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
11 MNLDF-1-AH J1J310440-10-SAMP 10/30/2011 13:45			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
12 MNLDG-1-AH J1J310440-11-SAMP 10/30/2011 13:50			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
13 MNLDH-1-AH J1J310440-12-SAMP 10/30/2011 13:55			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
14 MNLDJ-1-AH J1J310440-13-SAMP 10/30/2011 13:45			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:

11/3/2011 10:32:06 AM

Sample Preparation/Analysis

AT H-3 Prp/Sep LSC002
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

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

AnalyDueDate: 11/15/2011

Batch: 1305056 pCi/g
SEQ Batch, Test: None

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MNLV1-1-AA-B J1K010000-56-BLK 11/01/2011 08:44 pd			AmtRec:	#Containers: 1					Scr:		Alpha:		Beta:
16 MNLV1-1-AC-C J1K010000-56-LCS 11/01/2011 08:44 pd			AmtRec:	#Containers: 1					Scr:		Alpha:		Beta:
17 MNLV1-1-AD-BN J1K010000-56-IBLK 11/01/2011 08:44 pd			AmtRec:	#Containers: 1					Scr:		Alpha:		Beta:
18 MNLV1-1-AE-BN J1K010000-56-IBLK 11/01/2011 08:44 pd			AmtRec:	#Containers: 1					Scr:		Alpha:		Beta:

Comments: ~~MNLC4-SAMP "CommentsISV-Recount DUP on a Different Detector"~~ PMD 11/3/11

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

MNLC41AH-SAMP Constituent List:

H-3	RDL:400	pCi/g	LCL:70	UCL:130	RPD:35
MNLV11AA-BLK:					
H-3	RDL:400	pCi/g	LCL:	UCL:	RPD:
MNLV11AC-LCS:					
H-3	RDL:400	pCi/g	LCL:70	UCL:130	RPD:35
MNLV11AD-IBLK:					

TestAmerica Laboratories, Inc.

137

11/1/2011 8:45:02 AM

Sample Preparation/Analysis

AT H-3 Prp/Sep LSC002
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

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

AnalyDueDate: 11/15/2011

Batch: 1305056 pCi/g
SEQ Batch, Test: None

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

```
MNLV11AE-BLK:

MNLC41AH-SAMP Calc Info:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MNLV11AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MNLV11AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MNLV11AD-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MNLV11AE-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

11/11/2011 8:47:53 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/11/2010, 11/16/2011, Batch: '1305056', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1305056						
AC		**Rev1C**	**DefordP**	11/7/2011 9:11:05		
SC			wagarr	IsBatched	11/1/2011 8:46:36 AM	ICOC_RADCALC v4.8.49
SC			DefordP	Sep1C	11/7/2011 9:11:05 AM	RL-LSC-002 REV. 2
SC			ClarkR	InCnt1	11/8/2011 12:22:22 PM	RL-CI-005 REV. 2
SC			ClarkR	CalcC	11/10/2011 4:13:27 PM	RL-CI-005 REV. 2
SC			nortonj	Rev1C	11/11/2011 8:47:40 AM	RL-DR-001 Rev 2
AC			**ClarkR**	11/8/2011 12:22:22		
AC			**ClarkR**	11/10/2011 4:13:27		
AC			**nortonj**	11/11/2011 8:47:40		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.44

9,4

11/1/2011 8:45:02 AM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AnalyDueDate: 11/15/2011 JD1313

5S C-14 Prp/Sep LSC008
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

Batch: 1305058 **SOIL** **pCi/g**
SEQ Batch, Test: None

PM, Quote: RW2, 27038

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

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MNLC4-1-AK J1J310440-1-SAMP 10/30/2011 14:30			5.038g										
2 MNLC5-1-AK J1J310440-2-SAMP 10/30/2011 14:35			5.014g										
3 MNLC6-1-AK J1J310440-3-SAMP 10/30/2011 14:40			5.022g										
4 MNLC7-1-AK J1J310440-4-SAMP 10/30/2011 14:15			5.012g										
5 MNLC8-1-AK J1J310440-5-SAMP 10/30/2011 14:20			5.022g										
6 MNLC9-1-AK J1J310440-6-SAMP 10/30/2011 14:25			5.030g										
7 MNLDA-1-AK J1J310440-7-SAMP 10/30/2011 14:00			5.030g										

AmtRec: 1X125P, 1X500P #Containers: 2 Scr: Alpha: Beta:

TestAmerica Richland Wa. Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Page 1

ISV - Insufficient Volume for Analysis

WO Cnt: 7
ICOC v4.8.49

TestAmerica Laboratories, Inc.

11/1/2011 8:45:02 AM

Sample Preparation/Analysis

Balance Id:

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

5S C-14 Prp/Sep LSC008
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

Pipet #:

Sep1 DT/Tm Tech:

AnalyDueDate: 11/15/2011

Batch: 1305058 **SOIL** **pCi/g** **PM, Quote: RW2, 27038**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MNLDA-1-AL-X J1J310440-7-DUP 10/30/2011 14:00			5.002 g										
9 MNLDD-1-AK J1J310440-8-SAMP 10/30/2011 14:05			5.008 g										
10 MNLDE-1-AK J1J310440-9-SAMP 10/30/2011 14:10			5.005 g										
11 MNLDF-1-AK J1J310440-10-SAMP 10/30/2011 13:45			5.004 g										
12 MNLDG-1-AK J1J310440-11-SAMP 10/30/2011 13:50			5.003 g										
13 MNLDH-1-AK J1J310440-12-SAMP 10/30/2011 13:55			5.013 g										
14 MNLDJ-1-AK J1J310440-13-SAMP 10/30/2011 13:45			5.040 g										

AmtRec: 1X125P, 1X500P #Containers: 2 Scr: Alpha: Beta:

11/3/2011 10:30:00 AM

Sample Preparation/Analysis

5S C-14 Prp/Sep LSC008
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

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

AnalyDueDate: 11/15/2011

Batch: 1305058 pCi/g
SEQ Batch, Test: None

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MNLV6-1-AA-B													
J1K010000-58-BLK													
11/01/2011 08:44 pd			AmtRec:	#Containers: 1					Scr:		Alpha:		Beta:
16 MNLV6-1-AC-C													
J1K010000-58-LCS													
11/01/2011 08:44 pd			AmtRec:	#Containers: 1					Scr:		Alpha:		Beta:
17 MNLV6-1-AD-BN													
J1K010000-58-IBLK													
11/01/2011 08:44 pd			AmtRec:	#Containers: 1					Scr:		Alpha:		Beta:
18 MNLV6-1-AE-BN													
J1K010000-58-IBLK													
11/01/2011 08:44 pd			AmtRec:	#Containers: 1					Scr:		Alpha:		Beta:

Comments: ~~MNLC4-SAMP "CommentsISV-Recount DUP on a Different Detector"~~ PMD 11/3/11

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

MNLC41AK-SAMP Constituent List:

C-14	RDL:50	pCi/g	LCL:70	UCL:130	RPD:35
MNLV61AA-BLK:					
C-14	RDL:50	pCi/g	LCL:	UCL:	RPD:
MNLV61AC-LCS:					
C-14	RDL:50	pCi/g	LCL:70	UCL:130	RPD:35
MNLV61AD-IBLK:					

TestAmerica Laboratories, Inc.

11/1/2011 8:45:03 AM

Sample Preparation/Analysis

5S C-14 Prp/Sep LSC008
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

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

AnalyDueDate: 11/15/2011

Batch: 1305058 pCi/g
SEQ Batch, Test: None

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

MNLV61AE-BLK:

MNLC41AK-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MNLV61AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MNLV61AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MNLV61AD-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MNLV61AE-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

11/10/2011 3:33:15 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/10/2010, 11/15/2011, Batch: '1305058', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1305058						
AC		Rev1C	**DefordP**	11/3/2011 10:29:01		
SC			wagarr	IsBatched	11/1/2011 8:46:36 AM	ICOC_RADCALC v4.8.49
SC			DefordP	Sep1C	11/3/2011 10:29:01 AM	RL-LSC-008 REV. 2
SC			DawkinsO	InCnt1	11/3/2011 6:50:20 PM	RL-CI-005 REV. 2
SC			DawkinsO	CalcC	11/8/2011 10:24:23 AM	RL-CI-005 REV. 2
SC			antonsonl	Rev1C	11/10/2011 3:32:40 PM	RL-DR-001 Rev 2
AC			**DawkinsO**	11/3/2011 6:50:20 PM		
AC			**DawkinsO**	11/8/2011 10:24:23		
AC			**antonsonl**	11/10/2011 3:32:40		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 4

ICOCFractions v4.8.44

11/2/2011 4:06:15 PM

Sample Preparation/Analysis

Balance Id:1120373922

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

AF Ni-63 Prp PRP003/PRP005, Sep LSC017
S4 Nickel by ICP and Nickel-63 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: SannohS,BouslaughP

AnalyDueDate: 11/15/2011

Batch: 1305055 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MNLC4-1-AE J1J310440-1-SAMP 10/30/2011 14:30			0.24g,in	0.24g	NITA4876 10/25/11 AmtRec: 1X125P, 1X500P #Containers: 2				20				Scr: Alpha: Beta:
2 MNLC5-1-AE J1J310440-2-SAMP 10/30/2011 14:35			0.24g,in	0.24g	NITA4877 10/25/11 AmtRec: 1X125P, 1X500P #Containers: 2								Scr: Alpha: Beta:
3 MNLC6-1-AE J1J310440-3-SAMP 10/30/2011 14:40			0.24g,in	0.24g	NITA4878 10/25/11 AmtRec: 1X125P, 1X500P #Containers: 2								Scr: Alpha: Beta:
4 MNLC7-1-AE J1J310440-4-SAMP 10/30/2011 14:15			0.24g,in	0.24g	NITA4879 10/25/11 AmtRec: 1X125P, 1X500P #Containers: 2								Scr: Alpha: Beta:
5 MNLC8-1-AE J1J310440-5-SAMP 10/30/2011 14:20			0.25g,in	0.25g	NITA4880 10/25/11 AmtRec: 1X125P, 1X500P #Containers: 2								Scr: Alpha: Beta:
6 MNLC8-1-AL-X J1J310440-5-DUP 10/30/2011 14:20			0.25g,in	0.25g	NITA4881 10/27/11 AmtRec: 1X125P, 1X500P #Containers: 2								Scr: Alpha: Beta:
7 MNLC9-1-AE J1J310440-6-SAMP 10/30/2011 14:25			0.26g,in	0.26g	NITA4882 10/27/11 AmtRec: 1X125P, 1X500P #Containers: 2								Scr: Alpha: Beta:

TestAmerica Laboratories, Inc.

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TestAmerica Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Page 1

ISV - Insufficient Volume for Analysis

WO Cnt: 7

Prep_SamplePrep v4.8.56

11/2/2011 4:06:17 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AF Ni-63 Prp PRP003/PRP005, Sep LSC017
S4 Nickel by ICP and Nickel-63 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,BouslaughP

AnalyDueDate: 11/15/2011

Batch: 1305055 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MNLDA-1-AE J1J310440-7-SAMP 10/30/2011 14:00			0.25g,in	0.25g	NITA4883 10/27/11 AmtRec: 1X125P, 1X500P						#Containers: 2	Scr:	Alpha: Beta:
9 MNLDD-1-AE J1J310440-8-SAMP 10/30/2011 14:05			0.25g,in	0.25g	NITA4884 10/27/11 AmtRec: 1X125P, 1X500P						#Containers: 2	Scr:	Alpha: Beta:
10 MNLDE-1-AE J1J310440-9-SAMP 10/30/2011 14:10			0.25g,in	0.25g	NITA4885 10/27/11 AmtRec: 1X125P, 1X500P						#Containers: 2	Scr:	Alpha: Beta:
11 MNLDF-1-AE J1J310440-10-SAMP 10/30/2011 13:45			0.26g,in	0.26g	NITA4886 10/27/11 AmtRec: 1X125P, 1X500P						#Containers: 2	Scr:	Alpha: Beta:
12 MNLDG-1-AE J1J310440-11-SAMP 10/30/2011 13:50			0.24g,in	0.24g	NITA4887 10/27/11 AmtRec: 1X125P, 1X500P						#Containers: 2	Scr:	Alpha: Beta:
13 MNLDH-1-AE J1J310440-12-SAMP 10/30/2011 13:55			0.25g,in	0.25g	NITA4888 10/27/11 AmtRec: 1X125P, 1X500P						#Containers: 2	Scr:	Alpha: Beta:
14 MNLDJ-1-AE J1J310440-13-SAMP 10/30/2011 13:45			0.25g,in	0.25g	NITA4889 10/27/11 AmtRec: 1X125P, 1X500P						#Containers: 2	Scr:	Alpha: Beta:

11/2/2011 4:06:18 PM

Sample Preparation/Analysis

AF Ni-63 Prp PRP003/PRP005, Sep LSC017
S4 Nickel by ICP and Nickel-63 by Liquid Scint
5I CLIENT: HANFORD

Balance Id:1120373922
Pipet #: _____
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,BouslaughP

AnalyDueDate: 11/15/2011

Batch: 1305055 pCi/g
SEQ Batch, Test: None

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MNLVL-1-AA-B J1K010000-55-BLK 11/01/2011 08:44 pd			0.25g,in AmtRec:	0.25g #Containers: 1	NITA4890 10/27/11				20 Scr:	Alpha:		Beta:	
16 MNLVL-1-AC-C J1K010000-55-LCS 11/01/2011 08:44 pd			0.25g,in AmtRec:	0.25g #Containers: 1	NISA1484 09/06/11				Scr:	Alpha:		Beta:	
17 MNLVL-1-AD-BN J1K010000-55-IBLK 11/01/2011 08:44 pd			AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:	
18 MNLVL-1-AE-BN J1K010000-55-IBLK 11/01/2011 08:44 pd			AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:	

Comments: MNLC4-SAMP "CommentsISV-Recount DUP on a Different Detector"

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

MNLC41AE-SAMP Constituent List:

Ni-63	RDL:30	pCi/g	LCL:70	UCL:130	RPD:35
MNLVL1AA-BLK:					
Ni-63	RDL:30	pCi/g	LCL:	UCL:	RPD:
MNLVL1AC-LCS:					
Ni-63	RDL:30	pCi/g	LCL:70	UCL:130	RPD:35
MNLVL1AD-IBLK:					

TestAmerica Laboratories, Inc.

Sample Preparation/Analysis

AF Ni-63 Prp PRP003/PRP005, Sep LSC017
S4 Nickel by ICP and Nickel-63 by Liquid Scint
5I CLIENT: HANFORD

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

AnalyDueDate: 11/15/2011

Batch: 1305055 pCi/g
SEQ Batch, Test: None

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

```
 Ni-63        RDL:30          pCi/g      LCL:        UCL:        RPD:
MNLVL1AE-IBLK:
 Ni-63        RDL:30          pCi/g      LCL:        UCL:        RPD:
MNLC41AE-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MNLVL1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MNLVL1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MNLVL1AD-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MNLVL1AE-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

11/15/2011 2:04:34 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/15/2010, 11/20/2011, Batch: '1305055', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1305055						
AC		**Rev1C**	**BouslaughP**	11/2/2011 3:38:41 PM		
SC			wagarr	IsBatched	11/1/2011 8:46:36 AM	ICOC_RADCALC v4.8.49
SC			BouslaughP	InPrep	11/2/2011 3:38:41 PM	RL-PRP-003 REV. 2
SC			BouslaughP	Prep1C	11/4/2011 7:40:18 AM	RL-PRP-003 REV. 2
SC			LuksicS	Sep2C	11/12/2011 9:09:14 AM	RL-LSC-017 REV. 2
SC			DawkinsO	InCnt1	11/12/2011 12:32:06 PM	RL-CI-005 REV. 2
SC			DawkinsO	CalcC	11/15/2011 12:53:11 AM	RL-CI-005 REV. 2
SC			antonsonl	Rev1C	11/15/2011 2:04:11 PM	RL-DR-001 Rev 2
AC			**BouslaughP**	11/4/2011 7:40:18		
AC			**LuksicS**	11/12/2011 9:09:14		
AC			**DawkinsO**	11/12/2011 12:32:06		
AC			**DawkinsO**	11/15/2011 12:53:11		
AC			**antonsonl**	11/15/2011 2:04:11		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.44

11/1/2011 9:53:37 AM

Sample Preparation/Analysis

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

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

Balance Id:
Pipet #:

AnalyDueDate: 11/15/2011

Sep1 DT/Tm Tech:

Batch: 1305066 SOIL mg/kg PM, Quote: RW2, 27038
SEQ Batch, Test: None

Sep2 DT/Tm Tech:
Prep Tech:

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MNLC4-1-AA J1J310440-1-SAMP 10/30/2011 14:30			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
2 MNLC4-1-AM-S J1J310440-1-MS 10/30/2011 14:30			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
3 MNLC4-1-AN-X J1J310440-1-DUP 10/30/2011 14:30			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
4 MNLC5-1-AA J1J310440-2-SAMP 10/30/2011 14:35			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
5 MNLC6-1-AA J1J310440-3-SAMP 10/30/2011 14:40			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
6 MNLC7-1-AA J1J310440-4-SAMP 10/30/2011 14:15			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
7 MNLC8-1-AA J1J310440-5-SAMP 10/30/2011 14:20			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:

TestAmerica Laboratories, Inc.

11/1/2011 9:53:37 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 11/15/2011

Batch: 1305066 SOIL mg/kg PM, Quote: RW2, 27038
SEQ Batch, Test: None

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

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MNLC9-1-AA J1J310440-6-SAMP 10/30/2011 14:25			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
9 MNLDA-1-AA J1J310440-7-SAMP 10/30/2011 14:00			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
10 MNLDD-1-AA J1J310440-8-SAMP 10/30/2011 14:05			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
11 MNLDE-1-AA J1J310440-9-SAMP 10/30/2011 14:10			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
12 MNLDF-1-AA J1J310440-10-SAMP 10/30/2011 13:45			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
13 MNLDG-1-AA J1J310440-11-SAMP 10/30/2011 13:50			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
14 MNLDH-1-AA J1J310440-12-SAMP 10/30/2011 13:55			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:

TestAmerica Laboratories, Inc.

11/1/2011 9:53:37 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 11/15/2011

Batch: 1305066 SOIL mg/kg PM, Quote: RW2, 27038

SEQ Batch, Test: None

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

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MNLDJ-1-AA													
J1J310440-13-SAMP													
10/30/2011 13:45			AmtRec: 1X125P, 1X500P		#Containers: 2				Scr:		Alpha:		Beta:
16 MNLWG-1-AA-B													
J1K010000-66-BLK													
11/01/2011 08:37 pd			AmtRec:		#Containers: 1				Scr:		Alpha:		Beta:
17 MNLWG-1-AC-C													
J1K010000-66-LCS													
11/01/2011 08:37 pd			AmtRec:		#Containers: 1				Scr:		Alpha:		Beta:

Comments:

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

MNLC41AA-SAMP Constituent List:
HEXCHROME RDL:0.1548 mg/kg LCL:80 UCL:120 RPD:20
MNLC41AM-MS Constituent List:

MNLWG1AA-BLK:

MNLWG1AC-LCS:

MNLC41AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MNLC41AM-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MNLWG1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

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11/1/2011 9:53:37 AM

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: 11/15/2011

Batch: 1305066 **mg/kg**

SEQ Batch, Test: None

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

MNLWG1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-22245-1

SDG Number: J01313

Job Description: SAF# RC-075

RECEIVED
NOV 2011

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

Attention: Joan H Kessner

Approved for release.
Kae E Yoder
Project Manager II
11/16/2011 1:18 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
11/16/2011

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: 280-22245-1

SDG #: J01313
SAF#: RC-075

Date SDG Closed: November 1, 2011
Data Deliverable: 15 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1CYL8	280-22245-1	6010/7471/8270A/8310/8082/8081	6010B/7471A/8270C/8310/8082/8081A
J1CYL9	280-22245-2	6010/7471/8270A/8310/8082/8081	6010B/7471A/8270C/8310/8082/8081A
J1CYM0	280-22245-3	6010/7471/8270A/8310/8082/8081	6010B/7471A/8270C/8310/8082/8081A
J1CYM1	280-22245-4	6010/7471/8270A/8310/8082/8081	6010B/7471A/8270C/8310/8082/8081A
J1CYM2	280-22245-5	6010/7471/8270A/8310/8082/8081	6010B/7471A/8270C/8310/8082/8081A
J1CYM3	280-22245-6	6010/7471/8270A/8310/8082/8081	6010B/7471A/8270C/8310/8082/8081A
J1CYM4	280-22245-7	6010/7471/8270A/8310/8082/8081	6010B/7471A/8270C/8310/8082/8081A
J1CYM5	280-22245-8	6010/7471/8270A/8310/8082/8081	6010B/7471A/8270C/8310/8082/8081A
J1CYM6	280-22245-9	6010/7471/8270A/8310/8082/8081	6010B/7471A/8270C/8310/8082/8081A
J1CYM7	280-22245-10	6010/7471/8270A/8310/8082/8081	6010B/7471A/8270C/8310/8082/8081A
J1CYM8	280-22245-11	6010/7471/8270A/8310/8082/8081	6010B/7471A/8270C/8310/8082/8081A
J1CYM9	280-22245-12	6010/7471/8270A/8310/8082/8081	6010B/7471A/8270C/8310/8082/8081A
J1CYN0	280-22245-13	6010/7471/8270A/8310/8082/8081	6010B/7471A/8270C/8310/8082/8081A
J1CYN2	280-22245-14	6010/7471/8270A	6010B/7471A/8270C

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

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

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

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

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

RECEIPT

The samples were received on 11/1/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 2.6 C and 4.9 C.

GC/MS SEMIVOLATILES - SW846 8270C

Compounds Benzo(b)fluoranthene and Benzo(k)fluoranthene were unresolved in sample J1CYL8 due to matrix interferences. It can be noted that these compounds were adequately resolved in associated standards, indicating the instrument is achieving separation. The combined peak was reported as Benzo(b)fluoranthene, while Benzo(k)fluoranthene was reported as undetected even though it may be present. Associated results have been flagged with a "K".

Low levels of Bis(2-ethylhexyl) phthalate, a common laboratory contaminant, are present in the method blank associated with batch 280-94230. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary. Associated sample results present above the MDL and/or RL have been flagged with a "B".

No other anomalies were encountered.

GC SEMIVOLATILES - SW846 8081A - PESTICIDEs
The organic prep laboratory noted that a Florisil clean-up was performed on samples J1CYL8, J1CYM1, J1CYM4, J1CYM5, J1CYM7, J1CYM8 and J1CYN0 to reduce matrix interferences.

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to matrix interferences, samples J1CYL8, J1CYM1, J1CYM7, J1CYM8 and J1CYN0 required dilutions prior to the analysis of 4,4'-DDT and Methoxychlor, and the associated results have been flagged with a "D". The reporting limits have been adjusted relative to the dilutions required.

Surrogate recoveries have been "D" flagged in the diluted analyses of samples J1CYL8, J1CYM1, J1CYM7, J1CYM8 and J1CYN0, as the recoveries obtained are calculated from diluted samples and are not considered reliable.

The RPD between the primary and confirmation columns exceeded 40% for 4,4'-DDE in sample J1CYM8. The lower of the two values has been reported, as matrix interference is evident. The result has been flagged with an "X".

Continuing Calibration Verification (CCV) standards associated with the diluted analyses of samples J1CYL8, J1CYM1, J1CYM7, J1CYM8 and J1CYN0 exhibited %Difference (%D) values >15%, biased high, for Methoxyclor (+18%, +19%). As no detectable concentrations of Methoxychlor are present in the associated samples, corrective action is deemed unnecessary.

The closing Continuing Calibration Verification (CCV) standard associated with the undiluted analyses of samples J1CYL8, J1CYM1, J1CYM7, J1CYM8 and J1CYN0 exhibited the %Difference (%D) value >15%, biased low, on one of the dual columns for Toxaphene (-22%). The overall mean %D is ≤15%; therefore, method criteria have been met and corrective action is deemed unnecessary.

In some cases, Continuing Calibration Verification (CCV) standards exhibited %Difference (%D) values >15%, biased high, for surrogates Decachlorobiphenyl and Tetrachloro-m-xylene. As the surrogates are in control in the associated samples, corrective action is deemed unnecessary.

No other anomalies were encountered.

GC SEMIVOLATILES - SW846 8082 - PCBs
The RPD between the primary and confirmation columns exceeded 25% for Aroclor 1254 in sample J1CYM7. The result has been flagged with a "P".

The laboratory noted that sample J1CYM7 contained more than one Aroclor component. Results should be considered estimated due to shared peaks.

No other anomalies were encountered.

HPLC - SW846 8310 - PAHs
In some cases, the RPD between the primary and confirmation columns exceeded 40%. The lower of the two values have been reported, as interference is evident on either one of the columns or both columns. Associated results have been flagged with an "X". It can be noted that interference was evident on only one of the columns for Pyrene and Chrysene.

The MSD aliquot of the MS/MSD performed on sample J1CYL9 exhibited spike compound recoveries outside the control limits biased high, and the associated sample results have been flagged "N". In addition, surrogate Terphenyl-d14 failed the recovery criteria high, and RPD limits were exceeded. 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. It can be noted that the MSD has evidence of additional matrix peaks and baseline present that are not seen in the chromatograms for the parent sample or the MS (nor is this specific matrix pattern seen in any other samples in the batch). Also in the chromatograms, the retention times for target compounds are nearly identical between the MS and MSD, indicating there were no issues during the instrument analysis. The laboratory noted that these outliers are most likely due to non-homogeneity of the sample and some underlying matrix interference.

No other anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A
Serial dilution of a digestate in batch 280-94656 indicates that physical and chemical interferences are present for several elements. Results have been flagged with an "X".

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the methods. Samples J1CYM0, J1CYM3, J1CYM6 and J1CYM9 required 5X dilutions prior to the analysis of Beryllium, Cadmium, Cobalt, Copper, Lead and Vanadium to minimize the interference caused by Titanium concentrations greater than the linear range. The reporting limits have been adjusted relative to the dilution required.

Iron, a common laboratory contaminant, is present at a level greater than the reporting limit in the method blank associated with batch 280-94656. As the associated sample amounts are twenty times greater than the method blank concentration, corrective action is deemed unnecessary.

Low levels of Chromium are present in the method blank associated with batch 280-94656. Because the concentration in the method blank is not present at a level greater than half the reporting limit, corrective action is deemed unnecessary.

It can be noted that the sample amount was greater than four times the spike amount for Aluminum, Iron and Manganese in the Matrix Spike performed on sample J1CYL8; therefore, control limits are not applicable.

The Matrix Spike performed on sample J1CYL8 exhibited percent recoveries outside the control limits for Zinc and Mercury, and the associated sample results have been flagged "N". There is no indication that the analytical systems were 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: 280-22245-1
Sdg Number: J01313

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.
	K	Benzo (b&k) fluoranthene are unresolved due to matrix, result is reported as Benzo(b)fluoranthene.
	J	Indicates an Estimated Value for TICs
	N	Presumptive evidence of material.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC Semi VOA		
	U	Analyzed for but not detected.
	X	More than 40% difference between columns, lower result reported.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	D	The reported value is from a dilution.
	P	This flag is used for an aroclor target analyte where there is greater than 25% difference for detected concentrations between the two GC columns
Metals		
	U	Analyzed for but not detected.
	B	Estimated result. Result is less than the RL, but greater than MDL
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	N	Recovery exceeds upper or lower control limits
	X	Serial dilution in the analytical batch indicates that physical and chemical interferences are present.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Lab Section	Qualifier	Description
General Chemistry		
	U	Analyzed for but not detected.
HPLC/IC		
	U	Analyzed for but not detected.
	X	More than 40% difference between columns, lower result reported.
	N	MS, MSD: Spike recovery exceeds upper or lower control limits.
	*	MS/MSD RPD exceeded the control limit
	E	Result exceeded calibration range.
	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

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds (GC/MS)	TAL DEN	SW846 8270C	
Ultrasonic Extraction			SW846 3550C
Organochlorine Pesticides (GC)	TAL DEN	SW846 8081A	
Ultrasonic Extraction			SW846 3550C
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL DEN	SW846 8082	
Ultrasonic Extraction			SW846 3550C
PAHs (HPLC)	TAL DEN	SW846 8310	
Ultrasonic Extraction			SW846 3550C
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals			SW846 3050B
Mercury (CVAA)	TAL DEN	SW846 7471A	
Preparation, Mercury			SW846 7471A
ASTM D-2216	TAL DEN	ASTM D-2216	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

ASTM = ASTM International

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: 280-22245-1
Sdg Number: J01313

Method	Analyst	Analyst ID
SW846 8270C	Hoffman, Michael G	MGH
SW846 8081A	Wells, David	DW
SW846 8082	Pavlakovich, Adam M	AMP
SW846 6010B	Bowen, Heidi E	HEB
SW846 6010B	Harre, John K	JKH
SW846 7471A	Rawlings, Brendon L	BLR
ASTM D-2216	Berry III, Paul B	PBB
SW846 8310	Hall, Koley J	KJH

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-22245-1	J1CYL8	Solid	10/30/2011 1430	11/01/2011 0900
280-22245-2	J1CYL9	Solid	10/30/2011 1435	11/01/2011 0900
280-22245-3	J1CYM0	Solid	10/30/2011 1440	11/01/2011 0900
280-22245-4	J1CYM1	Solid	10/30/2011 1415	11/01/2011 0900
280-22245-5	J1CYM2	Solid	10/30/2011 1420	11/01/2011 0900
280-22245-6	J1CYM3	Solid	10/30/2011 1425	11/01/2011 0900
280-22245-7	J1CYM4	Solid	10/30/2011 1400	11/01/2011 0900
280-22245-8	J1CYM5	Solid	10/30/2011 1405	11/01/2011 0900
280-22245-9	J1CYM6	Solid	10/30/2011 1410	11/01/2011 0900
280-22245-10	J1CYM7	Solid	10/30/2011 1345	11/01/2011 0900
280-22245-11	J1CYM8	Solid	10/30/2011 1350	11/01/2011 0900
280-22245-12	J1CYM9	Solid	10/30/2011 1355	11/01/2011 0900
280-22245-13FD	J1CYN0	Solid	10/30/2011 1345	11/01/2011 0900
280-22245-14EB	J1CYN2	Solid	10/30/2011 1310	11/01/2011 0900

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYL8**

Lab Sample ID: 280-22245-1
Client Matrix: Solid
% Moisture: 20.3

Date Sampled: 10/30/2011 1430
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D6994.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	11/12/2011 1503			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		13	U	13	410
Acenaphthylene		21	U	21	410
Anthracene		21	U	21	410
Benzo[a]anthracene		150	J	25	410
Benzo[a]pyrene		210	J	25	410
Benzo[b]fluoranthene		220	J K	33	410
Benzo[ghi]perylene		74	J	20	410
Benzo[k]fluoranthene		50	U K	50	410
Bis(2-chloroethoxy)methane		29	U	29	410
Bis(2-chloroethyl)ether		21	U	21	410
bis (2-chloroisopropyl) ether		29	U	29	410
Bis(2-ethylhexyl) phthalate		120	J B	57	410
4-Bromophenyl phenyl ether		24	U	24	410
Butyl benzyl phthalate		54	U	54	410
Carbazole		45	U	45	410
4-Chloroaniline		100	U	100	410
4-Chloro-3-methylphenol		82	U	82	410
2-Chloronaphthalene		12	U	12	410
2-Chlorophenol		26	U	26	410
4-Chlorophenyl phenyl ether		26	U	26	410
Chrysene		150	J	34	410
Dibenz(a,h)anthracene		24	U	24	410
Dibenzofuran		25	U	25	410
1,2-Dichlorobenzene		27	U	27	410
1,3-Dichlorobenzene		15	U	15	410
1,4-Dichlorobenzene		17	U	17	410
3,3'-Dichlorobenzidine		110	U	110	820
2,4-Dichlorophenol		12	U	12	410
Diethyl phthalate		32	U	32	410
2,4-Dimethylphenol		82	U	82	410
Dimethyl phthalate		29	U	29	410
Di-n-butyl phthalate		36	U	36	410
4,6-Dinitro-2-methylphenol		410	U	410	820
2,4-Dinitrophenol		420	U	420	1000
2,4-Dinitrotoluene		82	U	82	410
2,6-Dinitrotoluene		35	U	35	410
Di-n-octyl phthalate		18	U	18	410
Fluoranthene		240	J	45	410
Fluorene		22	U	22	410
Hexachlorobenzene		36	U	36	410
Hexachlorobutadiene		12	U	12	410
Hexachlorocyclopentadiene		62	U	62	410
Hexachloroethane		27	U	27	410
Indeno[1,2,3-cd]pyrene		65	J	27	410
Isophorone		21	U	21	410
2-Methylnaphthalene		24	U	24	410

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYL8**

Lab Sample ID: 280-22245-1
Client Matrix: Solid
% Moisture: 20.3

Date Sampled: 10/30/2011 1430
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D6994.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	11/12/2011 1503			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		16	U	16	410
3 & 4 Methylphenol		41	U	41	410
Naphthalene		39	U	39	410
2-Nitroaniline		62	U	62	410
3-Nitroaniline		91	U	91	410
4-Nitroaniline		90	U	90	410
Nitrobenzene		27	U	27	410
2-Nitrophenol		12	U	12	410
4-Nitrophenol		120	U	120	820
N-Nitrosodi-n-propylamine		39	U	39	410
N-Nitrosodiphenylamine		26	U	26	410
Pentachlorophenol		410	U	410	820
Phenanthrene		36	J	21	410
Phenol		37	J	22	410
Pyrene		230	J	15	410
1,2,4-Trichlorobenzene		35	U	35	410
2,4,5-Trichlorophenol		12	U	12	410
2,4,6-Trichlorophenol		12	U	12	410

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	74		50 - 120
2-Fluorophenol	83		53 - 120
Nitrobenzene-d5	81		50 - 120
Phenol-d5	84		52 - 120
Terphenyl-d14	101		55 - 120
2,4,6-Tribromophenol	94		51 - 120

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYL8**

Lab Sample ID: 280-22245-1
Client Matrix: Solid
% Moisture: 20.3

Date Sampled: 10/30/2011 1430
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D6994.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	11/12/2011 1503			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.30	1300	N J
	Unknown	2.65	4900	N J
	Unknown	11.62	210	N J

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYL9**

Lab Sample ID: 280-22245-2
Client Matrix: Solid
% Moisture: 8.8

Date Sampled: 10/30/2011 1435
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D6995.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	11/12/2011 1522			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			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		17	U	17	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		94	J B	50	360
4-Bromophenyl phenyl ether		21	U	21	360
Butyl benzyl phthalate		47	U	47	360
Carbazole		39	U	39	360
4-Chloroaniline		89	U	89	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		29	U	29	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		98	U	98	720
2,4-Dichlorophenol		11	U	11	360
Diethyl phthalate		28	U	28	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		360	U	360	900
2,4-Dinitrotoluene		72	U	72	360
2,6-Dinitrotoluene		31	U	31	360
Di-n-octyl phthalate		16	U	16	360
Fluoranthene		39	U	39	360
Fluorene		20	U	20	360
Hexachlorobenzene		32	U	32	360
Hexachlorobutadiene		11	U	11	360
Hexachlorocyclopentadiene		54	U	54	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: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYL9**

Lab Sample ID: 280-22245-2
Client Matrix: Solid
% Moisture: 8.8

Date Sampled: 10/30/2011 1435
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D6995.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	11/12/2011 1522			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			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		54	U	54	360
3-Nitroaniline		80	U	80	360
4-Nitroaniline		79	U	79	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		27	J	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	79		50 - 120
2-Fluorophenol	87		53 - 120
Nitrobenzene-d5	85		50 - 120
Phenol-d5	87		52 - 120
Terphenyl-d14	101		55 - 120
2,4,6-Tribromophenol	87		51 - 120

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYL9**

Lab Sample ID: 280-22245-2
Client Matrix: Solid
% Moisture: 8.8

Date Sampled: 10/30/2011 1435
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D6995.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	11/12/2011 1522			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.30	730	N J
	Unknown	2.65	3900	N J

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM0**

Lab Sample ID: 280-22245-3
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 10/30/2011 1440
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D6996.D
Dilution:	1.0			Initial Weight/Volume:	31.5 g
Analysis Date:	11/12/2011 1541			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			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		87	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		170	J	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: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM0**

Lab Sample ID: 280-22245-3
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 10/30/2011 1440
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D6996.D
Dilution:	1.0			Initial Weight/Volume:	31.5 g
Analysis Date:	11/12/2011 1541			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			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	82		50 - 120
2-Fluorophenol	87		53 - 120
Nitrobenzene-d5	88		50 - 120
Phenol-d5	87		52 - 120
Terphenyl-d14	107		55 - 120
2,4,6-Tribromophenol	89		51 - 120

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM0**

Lab Sample ID: 280-22245-3
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 10/30/2011 1440
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D6996.D
Dilution:	1.0			Initial Weight/Volume:	31.5 g
Analysis Date:	11/12/2011 1541			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.29	2200	N J
	Unknown	2.65	4000	N J

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM1**

Lab Sample ID: 280-22245-4
Client Matrix: Solid
% Moisture: 18.2

Date Sampled: 10/30/2011 1415
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D6997.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	11/12/2011 1559			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		12	U	12	390
Acenaphthylene		20	U	20	390
Anthracene		20	U	20	390
Benzo[a]anthracene		23	U	23	390
Benzo[a]pyrene		23	U	23	390
Benzo[b]fluoranthene		31	U	31	390
Benzo[ghi]perylene		19	U	19	390
Benzo[k]fluoranthene		47	U	47	390
Bis(2-chloroethoxy)methane		27	U	27	390
Bis(2-chloroethyl)ether		19	U	19	390
bis (2-chloroisopropyl) ether		27	U	27	390
Bis(2-ethylhexyl) phthalate		150	J B	54	390
4-Bromophenyl phenyl ether		22	U	22	390
Butyl benzyl phthalate		50	U	50	390
Carbazole		42	U	42	390
4-Chloroaniline		96	U	96	390
4-Chloro-3-methylphenol		77	U	77	390
2-Chloronaphthalene		12	U	12	390
2-Chlorophenol		25	U	25	390
4-Chlorophenyl phenyl ether		25	U	25	390
Chrysene		32	U	32	390
Dibenz(a,h)anthracene		22	U	22	390
Dibenzofuran		23	U	23	390
1,2-Dichlorobenzene		26	U	26	390
1,3-Dichlorobenzene		14	U	14	390
1,4-Dichlorobenzene		16	U	16	390
3,3'-Dichlorobenzidine		110	U	110	770
2,4-Dichlorophenol		12	U	12	390
Diethyl phthalate		30	U	30	390
2,4-Dimethylphenol		77	U	77	390
Dimethyl phthalate		27	U	27	390
Di-n-butyl phthalate		34	U	34	390
4,6-Dinitro-2-methylphenol		390	U	390	770
2,4-Dinitrophenol		390	U	390	970
2,4-Dinitrotoluene		77	U	77	390
2,6-Dinitrotoluene		33	U	33	390
Di-n-octyl phthalate		17	U	17	390
Fluoranthene		42	U	42	390
Fluorene		21	U	21	390
Hexachlorobenzene		34	U	34	390
Hexachlorobutadiene		12	U	12	390
Hexachlorocyclopentadiene		59	U	59	390
Hexachloroethane		25	U	25	390
Indeno[1,2,3-cd]pyrene		26	U	26	390
Isophorone		20	U	20	390
2-Methylnaphthalene		22	U	22	390

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM1**

Lab Sample ID: 280-22245-4
Client Matrix: Solid
% Moisture: 18.2

Date Sampled: 10/30/2011 1415
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D6997.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	11/12/2011 1559			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		15	U	15	390
3 & 4 Methylphenol		39	U	39	390
Naphthalene		36	U	36	390
2-Nitroaniline		59	U	59	390
3-Nitroaniline		86	U	86	390
4-Nitroaniline		85	U	85	390
Nitrobenzene		26	U	26	390
2-Nitrophenol		12	U	12	390
4-Nitrophenol		110	U	110	770
N-Nitrosodi-n-propylamine		36	U	36	390
N-Nitrosodiphenylamine		25	U	25	390
Pentachlorophenol		390	U	390	770
Phenanthrene		20	U	20	390
Phenol		38	J	21	390
Pyrene		14	U	14	390
1,2,4-Trichlorobenzene		33	U	33	390
2,4,5-Trichlorophenol		12	U	12	390
2,4,6-Trichlorophenol		12	U	12	390

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	78		50 - 120
2-Fluorophenol	84		53 - 120
Nitrobenzene-d5	85		50 - 120
Phenol-d5	85		52 - 120
Terphenyl-d14	98		55 - 120
2,4,6-Tribromophenol	94		51 - 120

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM1**

Lab Sample ID: 280-22245-4
Client Matrix: Solid

% Moisture: 18.2

Date Sampled: 10/30/2011 1415
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D6997.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	11/12/2011 1559			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.30	1400	N J
	Unknown	2.65	5000	N J
	Unknown	12.99	160	N J

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM2**

Lab Sample ID: 280-22245-5
Client Matrix: Solid
% Moisture: 13.4

Date Sampled: 10/30/2011 1420
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D6998.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	11/12/2011 1618			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	370
Acenaphthylene		19	U	19	370
Anthracene		19	U	19	370
Benzo[a]anthracene		22	U	22	370
Benzo[a]pyrene		22	U	22	370
Benzo[b]fluoranthene		29	U	29	370
Benzo[ghi]perylene		18	U	18	370
Benzo[k]fluoranthene		44	U	44	370
Bis(2-chloroethoxy)methane		25	U	25	370
Bis(2-chloroethyl)ether		18	U	18	370
bis (2-chloroisopropyl) ether		25	U	25	370
Bis(2-ethylhexyl) phthalate		100	J B	51	370
4-Bromophenyl phenyl ether		21	U	21	370
Butyl benzyl phthalate		48	U	48	370
Carbazole		40	U	40	370
4-Chloroaniline		91	U	91	370
4-Chloro-3-methylphenol		73	U	73	370
2-Chloronaphthalene		11	U	11	370
2-Chlorophenol		23	U	23	370
4-Chlorophenyl phenyl ether		23	U	23	370
Chrysene		30	U	30	370
Dibenz(a,h)anthracene		21	U	21	370
Dibenzofuran		22	U	22	370
1,2-Dichlorobenzene		24	U	24	370
1,3-Dichlorobenzene		13	U	13	370
1,4-Dichlorobenzene		15	U	15	370
3,3'-Dichlorobenzidine		100	U	100	730
2,4-Dichlorophenol		11	U	11	370
Diethyl phthalate		29	U	29	370
2,4-Dimethylphenol		73	U	73	370
Dimethyl phthalate		78	J	25	370
Di-n-butyl phthalate		32	U	32	370
4,6-Dinitro-2-methylphenol		370	U	370	730
2,4-Dinitrophenol		370	U	370	910
2,4-Dinitrotoluene		73	U	73	370
2,6-Dinitrotoluene		31	U	31	370
Di-n-octyl phthalate		16	U	16	370
Fluoranthene		40	U	40	370
Fluorene		20	U	20	370
Hexachlorobenzene		32	U	32	370
Hexachlorobutadiene		11	U	11	370
Hexachlorocyclopentadiene		55	U	55	370
Hexachloroethane		24	U	24	370
Indeno[1,2,3-cd]pyrene		24	U	24	370
Isophorone		19	U	19	370
2-Methylnaphthalene		21	U	21	370

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM2**

Lab Sample ID: 280-22245-5
Client Matrix: Solid
% Moisture: 13.4

Date Sampled: 10/30/2011 1420
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D6998.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	11/12/2011 1618			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	370
3 & 4 Methylphenol		37	U	37	370
Naphthalene		34	U	34	370
2-Nitroaniline		55	U	55	370
3-Nitroaniline		81	U	81	370
4-Nitroaniline		80	U	80	370
Nitrobenzene		24	U	24	370
2-Nitrophenol		11	U	11	370
4-Nitrophenol		110	U	110	730
N-Nitrosodi-n-propylamine		34	U	34	370
N-Nitrosodiphenylamine		23	U	23	370
Pentachlorophenol		370	U	370	730
Phenanthrene		19	U	19	370
Phenol		20	U	20	370
Pyrene		13	U	13	370
1,2,4-Trichlorobenzene		31	U	31	370
2,4,5-Trichlorophenol		11	U	11	370
2,4,6-Trichlorophenol		11	U	11	370

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	73		50 - 120
2-Fluorophenol	78		53 - 120
Nitrobenzene-d5	79		50 - 120
Phenol-d5	80		52 - 120
Terphenyl-d14	97		55 - 120
2,4,6-Tribromophenol	83		51 - 120

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM2**

Lab Sample ID: 280-22245-5
Client Matrix: Solid

% Moisture: 13.4

Date Sampled: 10/30/2011 1420
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D6998.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	11/12/2011 1618			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.29	6600	N J
	Unknown	2.35	460	N J
	Unknown	2.65	4100	N J
	Unknown	4.30	190	N J

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM3**

Lab Sample ID: 280-22245-6
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 10/30/2011 1425
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D6999.D
Dilution:	1.0			Initial Weight/Volume:	31.6 g
Analysis Date:	11/12/2011 1637			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			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		88	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		62	J	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: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM3**

Lab Sample ID: 280-22245-6
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 10/30/2011 1425
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D6999.D
Dilution:	1.0			Initial Weight/Volume:	31.6 g
Analysis Date:	11/12/2011 1637			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			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	81		50 - 120
2-Fluorophenol	87		53 - 120
Nitrobenzene-d5	87		50 - 120
Phenol-d5	88		52 - 120
Terphenyl-d14	101		55 - 120
2,4,6-Tribromophenol	88		51 - 120

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM3**

Lab Sample ID: 280-22245-6
Client Matrix: Solid

% Moisture: 5.2

Date Sampled: 10/30/2011 1425
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D6999.D
Dilution:	1.0			Initial Weight/Volume:	31.6 g
Analysis Date:	11/12/2011 1637			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.29	2400	N J
	Unknown	2.65	3800	N J
	Unknown	9.87	330	N J

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM4**

Lab Sample ID: 280-22245-7
Client Matrix: Solid
% Moisture: 14.9

Date Sampled: 10/30/2011 1400
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7000.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	11/12/2011 1656			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		12	U	12	380
Acenaphthylene		20	U	20	380
Anthracene		20	U	20	380
Benzo[a]anthracene		23	U	23	380
Benzo[a]pyrene		23	U	23	380
Benzo[b]fluoranthene		30	U	30	380
Benzo[ghi]perylene		18	U	18	380
Benzo[k]fluoranthene		46	U	46	380
Bis(2-chloroethoxy)methane		27	U	27	380
Bis(2-chloroethyl)ether		19	U	19	380
bis (2-chloroisopropyl) ether		27	U	27	380
Bis(2-ethylhexyl) phthalate		53	U	53	380
4-Bromophenyl phenyl ether		22	U	22	380
Butyl benzyl phthalate		50	U	50	380
Carbazole		41	U	41	380
4-Chloroaniline		94	U	94	380
4-Chloro-3-methylphenol		76	U	76	380
2-Chloronaphthalene		12	U	12	380
2-Chlorophenol		24	U	24	380
4-Chlorophenyl phenyl ether		24	U	24	380
Chrysene		31	U	31	380
Dibenz(a,h)anthracene		22	U	22	380
Dibenzofuran		23	U	23	380
1,2-Dichlorobenzene		25	U	25	380
1,3-Dichlorobenzene		14	U	14	380
1,4-Dichlorobenzene		16	U	16	380
3,3'-Dichlorobenzidine		100	U	100	760
2,4-Dichlorophenol		12	U	12	380
Diethyl phthalate		30	U	30	380
2,4-Dimethylphenol		76	U	76	380
Dimethyl phthalate		150	J	27	380
Di-n-butyl phthalate		33	U	33	380
4,6-Dinitro-2-methylphenol		380	U	380	760
2,4-Dinitrophenol		380	U	380	950
2,4-Dinitrotoluene		76	U	76	380
2,6-Dinitrotoluene		32	U	32	380
Di-n-octyl phthalate		17	U	17	380
Fluoranthene		41	U	41	380
Fluorene		21	U	21	380
Hexachlorobenzene		33	U	33	380
Hexachlorobutadiene		12	U	12	380
Hexachlorocyclopentadiene		58	U	58	380
Hexachloroethane		25	U	25	380
Indeno[1,2,3-cd]pyrene		25	U	25	380
Isophorone		20	U	20	380
2-Methylnaphthalene		22	U	22	380

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM4**

Lab Sample ID: 280-22245-7
Client Matrix: Solid
% Moisture: 14.9

Date Sampled: 10/30/2011 1400
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7000.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	11/12/2011 1656			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		15	U	15	380
3 & 4 Methylphenol		38	U	38	380
Naphthalene		36	U	36	380
2-Nitroaniline		58	U	58	380
3-Nitroaniline		84	U	84	380
4-Nitroaniline		84	U	84	380
Nitrobenzene		25	U	25	380
2-Nitrophenol		12	U	12	380
4-Nitrophenol		110	U	110	760
N-Nitrosodi-n-propylamine		36	U	36	380
N-Nitrosodiphenylamine		24	U	24	380
Pentachlorophenol		380	U	380	760
Phenanthrene		20	U	20	380
Phenol		21	J	21	380
Pyrene		14	U	14	380
1,2,4-Trichlorobenzene		32	U	32	380
2,4,5-Trichlorophenol		12	U	12	380
2,4,6-Trichlorophenol		12	U	12	380

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	75		50 - 120
2-Fluorophenol	80		53 - 120
Nitrobenzene-d5	79		50 - 120
Phenol-d5	80		52 - 120
Terphenyl-d14	99		55 - 120
2,4,6-Tribromophenol	90		51 - 120

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM4**

Lab Sample ID: 280-22245-7
Client Matrix: Solid

% Moisture: 14.9

Date Sampled: 10/30/2011 1400
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7000.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	11/12/2011 1656			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** 7

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.29	8700	N J
	Unknown	2.35	760	N J
	Unknown	2.65	4400	N J
	Unknown	4.30	200	N J
	Unknown	7.43	170	N J
	Unknown	11.76	220	N J
	Unknown	12.98	200	N J

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM5**

Lab Sample ID: 280-22245-8
Client Matrix: Solid
% Moisture: 19.2

Date Sampled: 10/30/2011 1405
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7001.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	11/12/2011 1715			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		12	U	12	390
Acenaphthylene		20	U	20	390
Anthracene		20	U	20	390
Benzo[a]anthracene		24	U	24	390
Benzo[a]pyrene		24	U	24	390
Benzo[b]fluoranthene		31	U	31	390
Benzo[ghi]perylene		19	U	19	390
Benzo[k]fluoranthene		47	U	47	390
Bis(2-chloroethoxy)methane		27	U	27	390
Bis(2-chloroethyl)ether		20	U	20	390
bis (2-chloroisopropyl) ether		27	U	27	390
Bis(2-ethylhexyl) phthalate		150	J B	55	390
4-Bromophenyl phenyl ether		23	U	23	390
Butyl benzyl phthalate		51	U	51	390
Carbazole		43	U	43	390
4-Chloroaniline		97	U	97	390
4-Chloro-3-methylphenol		78	U	78	390
2-Chloronaphthalene		12	U	12	390
2-Chlorophenol		25	U	25	390
4-Chlorophenyl phenyl ether		25	U	25	390
Chrysene		32	U	32	390
Dibenz(a,h)anthracene		23	U	23	390
Dibenzofuran		24	U	24	390
1,2-Dichlorobenzene		26	U	26	390
1,3-Dichlorobenzene		14	U	14	390
1,4-Dichlorobenzene		16	U	16	390
3,3'-Dichlorobenzidine		110	U	110	780
2,4-Dichlorophenol		12	U	12	390
Diethyl phthalate		31	U	31	390
2,4-Dimethylphenol		78	U	78	390
Dimethyl phthalate		27	U	27	390
Di-n-butyl phthalate		34	U	34	390
4,6-Dinitro-2-methylphenol		390	U	390	780
2,4-Dinitrophenol		390	U	390	980
2,4-Dinitrotoluene		78	U	78	390
2,6-Dinitrotoluene		33	U	33	390
Di-n-octyl phthalate		17	U	17	390
Fluoranthene		43	U	43	390
Fluorene		21	U	21	390
Hexachlorobenzene		34	U	34	390
Hexachlorobutadiene		12	U	12	390
Hexachlorocyclopentadiene		59	U	59	390
Hexachloroethane		25	U	25	390
Indeno[1,2,3-cd]pyrene		26	U	26	390
Isophorone		20	U	20	390
2-Methylnaphthalene		23	U	23	390

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM5**

Lab Sample ID: 280-22245-8
Client Matrix: Solid
% Moisture: 19.2

Date Sampled: 10/30/2011 1405
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7001.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	11/12/2011 1715			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		15	U	15	390
3 & 4 Methylphenol		39	U	39	390
Naphthalene		37	U	37	390
2-Nitroaniline		59	U	59	390
3-Nitroaniline		87	U	87	390
4-Nitroaniline		86	U	86	390
Nitrobenzene		26	U	26	390
2-Nitrophenol		12	U	12	390
4-Nitrophenol		120	U	120	780
N-Nitrosodi-n-propylamine		37	U	37	390
N-Nitrosodiphenylamine		25	U	25	390
Pentachlorophenol		390	U	390	780
Phenanthrene		20	U	20	390
Phenol		48	J	21	390
Pyrene		14	U	14	390
1,2,4-Trichlorobenzene		33	U	33	390
2,4,5-Trichlorophenol		12	U	12	390
2,4,6-Trichlorophenol		12	U	12	390

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	80		50 - 120
2-Fluorophenol	83		53 - 120
Nitrobenzene-d5	86		50 - 120
Phenol-d5	82		52 - 120
Terphenyl-d14	104		55 - 120
2,4,6-Tribromophenol	92		51 - 120

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM5**

Lab Sample ID: 280-22245-8
Client Matrix: Solid

% Moisture: 19.2

Date Sampled: 10/30/2011 1405
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7001.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	11/12/2011 1715			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.30	1200	N J
	Unknown	2.65	5200	N J

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM6**

Lab Sample ID: 280-22245-9
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 10/30/2011 1410
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7002.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	11/12/2011 1734			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		17	U	17	340
Anthracene		17	U	17	340
Benzo[a]anthracene		20	U	20	340
Benzo[a]pyrene		20	U	20	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		16	U	16	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		89	J B	47	340
4-Bromophenyl phenyl ether		19	U	19	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		84	U	84	340
4-Chloro-3-methylphenol		68	U	68	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		21	U	21	340
4-Chlorophenyl phenyl ether		21	U	21	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		19	U	19	340
Dibenzofuran		20	U	20	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		92	U	92	680
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		68	U	68	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	680
2,4-Dinitrophenol		340	U	340	840
2,4-Dinitrotoluene		68	U	68	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		18	U	18	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		51	U	51	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		23	U	23	340
Isophorone		17	U	17	340
2-Methylnaphthalene		19	U	19	340

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM6**

Lab Sample ID: 280-22245-9
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 10/30/2011 1410
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7002.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	11/12/2011 1734			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	72		50 - 120
2-Fluorophenol	78		53 - 120
Nitrobenzene-d5	81		50 - 120
Phenol-d5	76		52 - 120
Terphenyl-d14	95		55 - 120
2,4,6-Tribromophenol	82		51 - 120

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM6**

Lab Sample ID: 280-22245-9
Client Matrix: Solid

% Moisture: 4.5

Date Sampled: 10/30/2011 1410
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7002.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	11/12/2011 1734			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.30	250	N J
	Unknown	2.65	2800	N J
	Unknown	9.86	160	N J

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM7**

Lab Sample ID: 280-22245-10
Client Matrix: Solid
% Moisture: 17.4

Date Sampled: 10/30/2011 1345
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7003.D
Dilution:	1.0			Initial Weight/Volume:	32.7 g
Analysis Date:	11/12/2011 1753			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	370
Acenaphthylene		19	U	19	370
Anthracene		19	U	19	370
Benzo[a]anthracene		22	U	22	370
Benzo[a]pyrene		22	U	22	370
Benzo[b]fluoranthene		29	U	29	370
Benzo[ghi]perylene		18	U	18	370
Benzo[k]fluoranthene		44	U	44	370
Bis(2-chloroethoxy)methane		26	U	26	370
Bis(2-chloroethyl)ether		18	U	18	370
bis (2-chloroisopropyl) ether		26	U	26	370
Bis(2-ethylhexyl) phthalate		97	J B	51	370
4-Bromophenyl phenyl ether		21	U	21	370
Butyl benzyl phthalate		48	U	48	370
Carbazole		40	U	40	370
4-Chloroaniline		91	U	91	370
4-Chloro-3-methylphenol		73	U	73	370
2-Chloronaphthalene		11	U	11	370
2-Chlorophenol		23	U	23	370
4-Chlorophenyl phenyl ether		23	U	23	370
Chrysene		30	U	30	370
Dibenz(a,h)anthracene		21	U	21	370
Dibenzofuran		22	U	22	370
1,2-Dichlorobenzene		24	U	24	370
1,3-Dichlorobenzene		13	U	13	370
1,4-Dichlorobenzene		15	U	15	370
3,3'-Dichlorobenzidine		100	U	100	730
2,4-Dichlorophenol		11	U	11	370
Diethyl phthalate		29	U	29	370
2,4-Dimethylphenol		73	U	73	370
Dimethyl phthalate		26	U	26	370
Di-n-butyl phthalate		32	U	32	370
4,6-Dinitro-2-methylphenol		370	U	370	730
2,4-Dinitrophenol		370	U	370	920
2,4-Dinitrotoluene		73	U	73	370
2,6-Dinitrotoluene		31	U	31	370
Di-n-octyl phthalate		16	U	16	370
Fluoranthene		40	U	40	370
Fluorene		20	U	20	370
Hexachlorobenzene		32	U	32	370
Hexachlorobutadiene		11	U	11	370
Hexachlorocyclopentadiene		56	U	56	370
Hexachloroethane		24	U	24	370
Indeno[1,2,3-cd]pyrene		24	U	24	370
Isophorone		19	U	19	370
2-Methylnaphthalene		21	U	21	370

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM7**

Lab Sample ID: 280-22245-10
Client Matrix: Solid
% Moisture: 17.4

Date Sampled: 10/30/2011 1345
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7003.D
Dilution:	1.0			Initial Weight/Volume:	32.7 g
Analysis Date:	11/12/2011 1753			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	370
3 & 4 Methylphenol		37	U	37	370
Naphthalene		34	U	34	370
2-Nitroaniline		56	U	56	370
3-Nitroaniline		81	U	81	370
4-Nitroaniline		81	U	81	370
Nitrobenzene		24	U	24	370
2-Nitrophenol		11	U	11	370
4-Nitrophenol		110	U	110	730
N-Nitrosodi-n-propylamine		34	U	34	370
N-Nitrosodiphenylamine		23	U	23	370
Pentachlorophenol		370	U	370	730
Phenanthrene		19	U	19	370
Phenol		39	J	20	370
Pyrene		13	U	13	370
1,2,4-Trichlorobenzene		31	U	31	370
2,4,5-Trichlorophenol		11	U	11	370
2,4,6-Trichlorophenol		11	U	11	370

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	77		50 - 120
2-Fluorophenol	82		53 - 120
Nitrobenzene-d5	85		50 - 120
Phenol-d5	82		52 - 120
Terphenyl-d14	99		55 - 120
2,4,6-Tribromophenol	89		51 - 120

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM7**

Lab Sample ID: 280-22245-10
Client Matrix: Solid

% Moisture: 17.4

Date Sampled: 10/30/2011 1345
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7003.D
Dilution:	1.0			Initial Weight/Volume:	32.7 g
Analysis Date:	11/12/2011 1753			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.30	1000	N J
	Unknown	2.65	3700	N J
	Unknown	9.26	290	N J
	Unknown	12.19	240	N J
	Unknown	12.82	260	N J

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM8**

Lab Sample ID: 280-22245-11
Client Matrix: Solid
% Moisture: 14.2

Date Sampled: 10/30/2011 1350
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7004.D
Dilution:	1.0			Initial Weight/Volume:	31.4 g
Analysis Date:	11/12/2011 1812			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	370
Acenaphthylene		19	U	19	370
Anthracene		19	U	19	370
Benzo[a]anthracene		22	U	22	370
Benzo[a]pyrene		22	U	22	370
Benzo[b]fluoranthene		29	U	29	370
Benzo[ghi]perylene		18	U	18	370
Benzo[k]fluoranthene		45	U	45	370
Bis(2-chloroethoxy)methane		26	U	26	370
Bis(2-chloroethyl)ether		18	U	18	370
bis (2-chloroisopropyl) ether		26	U	26	370
Bis(2-ethylhexyl) phthalate		100	J B	51	370
4-Bromophenyl phenyl ether		21	U	21	370
Butyl benzyl phthalate		48	U	48	370
Carbazole		40	U	40	370
4-Chloroaniline		91	U	91	370
4-Chloro-3-methylphenol		74	U	74	370
2-Chloronaphthalene		11	U	11	370
2-Chlorophenol		23	U	23	370
4-Chlorophenyl phenyl ether		23	U	23	370
Chrysene		30	U	30	370
Dibenz(a,h)anthracene		21	U	21	370
Dibenzofuran		22	U	22	370
1,2-Dichlorobenzene		25	U	25	370
1,3-Dichlorobenzene		13	U	13	370
1,4-Dichlorobenzene		15	U	15	370
3,3'-Dichlorobenzidine		100	U	100	740
2,4-Dichlorophenol		11	U	11	370
Diethyl phthalate		29	U	29	370
2,4-Dimethylphenol		74	U	74	370
Dimethyl phthalate		26	U	26	370
Di-n-butyl phthalate		32	U	32	370
4,6-Dinitro-2-methylphenol		370	U	370	740
2,4-Dinitrophenol		370	U	370	920
2,4-Dinitrotoluene		74	U	74	370
2,6-Dinitrotoluene		31	U	31	370
Di-n-octyl phthalate		16	U	16	370
Fluoranthene		40	U	40	370
Fluorene		20	U	20	370
Hexachlorobenzene		32	U	32	370
Hexachlorobutadiene		11	U	11	370
Hexachlorocyclopentadiene		56	U	56	370
Hexachloroethane		24	U	24	370
Indeno[1,2,3-cd]pyrene		25	U	25	370
Isophorone		19	U	19	370
2-Methylnaphthalene		21	U	21	370

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM8**

Lab Sample ID: 280-22245-11
Client Matrix: Solid
% Moisture: 14.2

Date Sampled: 10/30/2011 1350
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7004.D
Dilution:	1.0			Initial Weight/Volume:	31.4 g
Analysis Date:	11/12/2011 1812			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	370
3 & 4 Methylphenol		37	U	37	370
Naphthalene		35	U	35	370
2-Nitroaniline		56	U	56	370
3-Nitroaniline		81	U	81	370
4-Nitroaniline		81	U	81	370
Nitrobenzene		25	U	25	370
2-Nitrophenol		11	U	11	370
4-Nitrophenol		110	U	110	740
N-Nitrosodi-n-propylamine		35	U	35	370
N-Nitrosodiphenylamine		23	U	23	370
Pentachlorophenol		370	U	370	740
Phenanthrene		19	U	19	370
Phenol		20	U	20	370
Pyrene		13	U	13	370
1,2,4-Trichlorobenzene		31	U	31	370
2,4,5-Trichlorophenol		11	U	11	370
2,4,6-Trichlorophenol		11	U	11	370

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	79		50 - 120
2-Fluorophenol	85		53 - 120
Nitrobenzene-d5	85		50 - 120
Phenol-d5	84		52 - 120
Terphenyl-d14	102		55 - 120
2,4,6-Tribromophenol	95		51 - 120

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM8**

Lab Sample ID: 280-22245-11
Client Matrix: Solid

% Moisture: 14.2

Date Sampled: 10/30/2011 1350
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7004.D
Dilution:	1.0			Initial Weight/Volume:	31.4 g
Analysis Date:	11/12/2011 1812			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.30	420	N J
	Unknown	2.65	4000	N J

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM9**

Lab Sample ID: 280-22245-12
Client Matrix: Solid
% Moisture: 6.6

Date Sampled: 10/30/2011 1355
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7005.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Analysis Date:	11/12/2011 1831			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		18	U	18	340
Anthracene		18	U	18	340
Benzo[a]anthracene		21	U	21	340
Benzo[a]pyrene		21	U	21	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		17	U	17	340
Benzo[k]fluoranthene		42	U	42	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		89	J B	48	340
4-Bromophenyl phenyl ether		20	U	20	340
Butyl benzyl phthalate		45	U	45	340
Carbazole		38	U	38	340
4-Chloroaniline		85	U	85	340
4-Chloro-3-methylphenol		69	U	69	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		20	U	20	340
Dibenzofuran		21	U	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		13	U	13	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		94	U	94	690
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		69	U	69	340
Dimethyl phthalate		81	J	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	690
2,4-Dinitrophenol		350	U	350	860
2,4-Dinitrotoluene		69	U	69	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		38	U	38	340
Fluorene		19	U	19	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		52	U	52	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		23	U	23	340
Isophorone		18	U	18	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM9**

Lab Sample ID: 280-22245-12
Client Matrix: Solid

% Moisture: 6.6

Date Sampled: 10/30/2011 1355
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7005.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Analysis Date:	11/12/2011 1831			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		52	U	52	340
3-Nitroaniline		76	U	76	340
4-Nitroaniline		76	U	76	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		100	U	100	690
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		22	U	22	340
Pentachlorophenol		340	U	340	690
Phenanthrene		18	U	18	340
Phenol		19	U	19	340
Pyrene		13	U	13	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	83		50 - 120
2-Fluorophenol	88		53 - 120
Nitrobenzene-d5	89		50 - 120
Phenol-d5	90		52 - 120
Terphenyl-d14	105		55 - 120
2,4,6-Tribromophenol	93		51 - 120

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM9**

Lab Sample ID: 280-22245-12
Client Matrix: Solid

% Moisture: 6.6

Date Sampled: 10/30/2011 1355
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7005.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Analysis Date:	11/12/2011 1831			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.30	2900	N J
	Unknown	2.65	4500	N J

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYN0**

Lab Sample ID: 280-22245-13FD
Client Matrix: Solid % Moisture: 16.6

Date Sampled: 10/30/2011 1345
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7006.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	11/12/2011 1850			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		12	U	12	390
Acenaphthylene		20	U	20	390
Anthracene		20	U	20	390
Benzo[a]anthracene		24	U	24	390
Benzo[a]pyrene		120	J	24	390
Benzo[b]fluoranthene		31	U	31	390
Benzo[ghi]perylene		19	U	19	390
Benzo[k]fluoranthene		48	U	48	390
Bis(2-chloroethoxy)methane		27	U	27	390
Bis(2-chloroethyl)ether		20	U	20	390
bis (2-chloroisopropyl) ether		27	U	27	390
Bis(2-ethylhexyl) phthalate		100	J B	55	390
4-Bromophenyl phenyl ether		23	U	23	390
Butyl benzyl phthalate		51	U	51	390
Carbazole		43	U	43	390
4-Chloroaniline		98	U	98	390
4-Chloro-3-methylphenol		79	U	79	390
2-Chloronaphthalene		12	U	12	390
2-Chlorophenol		25	U	25	390
4-Chlorophenyl phenyl ether		25	U	25	390
Chrysene		32	U	32	390
Dibenz(a,h)anthracene		23	U	23	390
Dibenzofuran		24	U	24	390
1,2-Dichlorobenzene		26	U	26	390
1,3-Dichlorobenzene		14	U	14	390
1,4-Dichlorobenzene		16	U	16	390
3,3'-Dichlorobenzidine		110	U	110	790
2,4-Dichlorophenol		12	U	12	390
Diethyl phthalate		31	U	31	390
2,4-Dimethylphenol		79	U	79	390
Dimethyl phthalate		27	U	27	390
Di-n-butyl phthalate		35	U	35	390
4,6-Dinitro-2-methylphenol		390	U	390	790
2,4-Dinitrophenol		400	U	400	980
2,4-Dinitrotoluene		79	U	79	390
2,6-Dinitrotoluene		33	U	33	390
Di-n-octyl phthalate		17	U	17	390
Fluoranthene		43	U	43	390
Fluorene		21	U	21	390
Hexachlorobenzene		35	U	35	390
Hexachlorobutadiene		12	U	12	390
Hexachlorocyclopentadiene		60	U	60	390
Hexachloroethane		25	U	25	390
Indeno[1,2,3-cd]pyrene		26	U	26	390
Isophorone		20	U	20	390
2-Methylnaphthalene		23	U	23	390

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYN0**

Lab Sample ID: 280-22245-13FD
Client Matrix: Solid
% Moisture: 16.6

Date Sampled: 10/30/2011 1345
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7006.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	11/12/2011 1850			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		15	U	15	390
3 & 4 Methylphenol		39	U	39	390
Naphthalene		37	U	37	390
2-Nitroaniline		60	U	60	390
3-Nitroaniline		87	U	87	390
4-Nitroaniline		86	U	86	390
Nitrobenzene		26	U	26	390
2-Nitrophenol		12	U	12	390
4-Nitrophenol		120	U	120	790
N-Nitrosodi-n-propylamine		37	U	37	390
N-Nitrosodiphenylamine		25	U	25	390
Pentachlorophenol		390	U	390	790
Phenanthrene		20	U	20	390
Phenol		34	J	21	390
Pyrene		19	J	14	390
1,2,4-Trichlorobenzene		33	U	33	390
2,4,5-Trichlorophenol		12	U	12	390
2,4,6-Trichlorophenol		12	U	12	390

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	81		50 - 120
2-Fluorophenol	84		53 - 120
Nitrobenzene-d5	86		50 - 120
Phenol-d5	84		52 - 120
Terphenyl-d14	103		55 - 120
2,4,6-Tribromophenol	96		51 - 120

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYN0**

Lab Sample ID: 280-22245-13FD
Client Matrix: Solid
% Moisture: 16.6

Date Sampled: 10/30/2011 1345
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7006.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	11/12/2011 1850			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.30	960	N J
	Unknown	2.65	5800	N J
	Unknown	12.81	320	N J

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYN2**

Lab Sample ID: 280-22245-14EB
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 10/30/2011 1310
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7007.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	11/12/2011 1909			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			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		91	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		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
2-Methylnaphthalene		19	U	19	320

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYN2**

Lab Sample ID: 280-22245-14EB
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 10/30/2011 1310
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7007.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	11/12/2011 1909			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			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		31	U	31	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		31	U	31	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	Qualifier	Acceptance Limits
2-Fluorobiphenyl	71		50 - 120
2-Fluorophenol	75		53 - 120
Nitrobenzene-d5	78		50 - 120
Phenol-d5	77		52 - 120
Terphenyl-d14	101		55 - 120
2,4,6-Tribromophenol	83		51 - 120

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYN2**

Lab Sample ID: 280-22245-14EB
Client Matrix: Solid

% Moisture: 0.1

Date Sampled: 10/30/2011 1310
Date Received: 11/01/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-94230	Lab File ID:	D7007.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	11/12/2011 1909			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.65	2900	N J

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYL8**

Lab Sample ID: 280-22245-1
Client Matrix: Solid
% Moisture: 20.3

Date Sampled: 10/30/2011 1430
Date Received: 11/01/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-94235	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	11/09/2011 0305			Injection Volume:	1 uL
Prep Date:	11/01/2011 1750			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.68	U	0.68	2.1
4,4'-DDE		0.37	J	0.30	2.1
Aldrin		0.31	U	0.31	2.1
alpha-BHC		0.27	U	0.27	2.1
beta-BHC		0.83	U	0.83	2.1
delta-BHC		0.50	U	0.50	2.1
gamma-BHC (Lindane)		0.58	U	0.58	2.1
Heptachlor		0.27	U	0.27	2.1
Heptachlor epoxide		0.53	U	0.53	2.1
Endosulfan I		0.22	U	0.22	2.1
Endosulfan II		0.36	U	0.36	2.1
Endosulfan sulfate		0.34	U	0.34	2.1
Endrin		0.38	U	0.38	2.1
Endrin aldehyde		0.21	U	0.21	2.1
Endrin ketone		0.61	U	0.61	2.1
gamma-Chlordane		0.33	U	0.33	2.1
alpha-Chlordane		0.40	U	0.40	2.1
Dieldrin		0.26	U	0.26	2.1
Toxaphene		20	U	20	210

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	86		59 - 115
Decachlorobiphenyl	92		63 - 124

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYL8**

Lab Sample ID: 280-22245-1
Client Matrix: Solid

% Moisture: 20.3

Date Sampled: 10/30/2011 1430
Date Received: 11/01/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-94235	Initial Weight/Volume:	30.2 g
Dilution:	10			Final Weight/Volume:	10000 uL
Analysis Date:	11/08/2011 1509	Run Type:	DL	Injection Volume:	1 uL
Prep Date:	11/01/2011 1750			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		7.4	U D	7.4	21
Methoxychlor		5.6	U D	5.6	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	68	D	59 - 115
Decachlorobiphenyl	74	D	63 - 124

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYL9**

Lab Sample ID: 280-22245-2
Client Matrix: Solid

% Moisture: 8.8

Date Sampled: 10/30/2011 1435
Date Received: 11/01/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-94235	Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	11/08/2011 2331			Injection Volume:	1 uL
Prep Date:	11/01/2011 1750			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.59	U	0.59	1.8
4,4'-DDE		0.26	U	0.26	1.8
4,4'-DDT		0.64	U	0.64	1.8
Aldrin		0.27	U	0.27	1.8
alpha-BHC		0.23	U	0.23	1.8
beta-BHC		0.72	U	0.72	1.8
delta-BHC		0.44	U	0.44	1.8
gamma-BHC (Lindane)		0.50	U	0.50	1.8
Heptachlor		0.23	U	0.23	1.8
Heptachlor epoxide		0.46	U	0.46	1.8
Endosulfan I		0.19	U	0.19	1.8
Endosulfan II		0.31	U	0.31	1.8
Endosulfan sulfate		0.30	U	0.30	1.8
Endrin		0.33	U	0.33	1.8
Endrin aldehyde		0.19	U	0.19	1.8
Endrin ketone		0.53	U	0.53	1.8
gamma-Chlordane		0.29	U	0.29	1.8
Methoxychlor		0.49	U	0.49	3.6
alpha-Chlordane		0.35	U	0.35	1.8
Dieldrin		0.23	U	0.23	1.8
Toxaphene		17	U	17	180

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	88		59 - 115
Decachlorobiphenyl	90		63 - 124

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM0**

Lab Sample ID: 280-22245-3
Client Matrix: Solid

% Moisture: 4.5

Date Sampled: 10/30/2011 1440
Date Received: 11/01/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-94235	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	11/08/2011 2349			Injection Volume:	1 uL
Prep Date:	11/01/2011 1750			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		0.17	U	0.17	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	88		59 - 115
Decachlorobiphenyl	99		63 - 124

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM1**

Lab Sample ID: 280-22245-4
Client Matrix: Solid

% Moisture: 18.2

Date Sampled: 10/30/2011 1415
Date Received: 11/01/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-94235	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	11/09/2011 0323			Injection Volume:	1 uL
Prep Date:	11/01/2011 1750			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.65	U	0.65	2.0
4,4'-DDE		0.43	J	0.28	2.0
Aldrin		0.30	U	0.30	2.0
alpha-BHC		0.25	U	0.25	2.0
beta-BHC		0.79	U	0.79	2.0
delta-BHC		0.48	U	0.48	2.0
gamma-BHC (Lindane)		0.55	U	0.55	2.0
Heptachlor		0.25	U	0.25	2.0
Heptachlor epoxide		0.51	U	0.51	2.0
Endosulfan I		0.21	U	0.21	2.0
Endosulfan II		0.34	U	0.34	2.0
Endosulfan sulfate		0.33	U	0.33	2.0
Endrin		0.36	U	0.36	2.0
Endrin aldehyde		0.20	U	0.20	2.0
Endrin ketone		0.58	U	0.58	2.0
gamma-Chlordane		0.32	U	0.32	2.0
alpha-Chlordane		0.38	U	0.38	2.0
Dieldrin		0.25	U	0.25	2.0
Toxaphene		19	U	19	200

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	72		59 - 115
Decachlorobiphenyl	89		63 - 124

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM1**

Lab Sample ID: 280-22245-4
Client Matrix: Solid

% Moisture: 18.2

Date Sampled: 10/30/2011 1415
Date Received: 11/01/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-94235	Initial Weight/Volume:	30.8 g
Dilution:	10			Final Weight/Volume:	10000 uL
Analysis Date:	11/08/2011 1527	Run Type:	DL	Injection Volume:	1 uL
Prep Date:	11/01/2011 1750			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		7.0	U D	7.0	20
Methoxychlor		5.4	U D	5.4	39

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	61	D	59 - 115
Decachlorobiphenyl	76	D	63 - 124

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM2**

Lab Sample ID: 280-22245-5
Client Matrix: Solid

% Moisture: 13.4

Date Sampled: 10/30/2011 1420
Date Received: 11/01/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-94235	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	11/09/2011 0007			Injection Volume:	1 uL
Prep Date:	11/01/2011 1750			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		0.28	U	0.28	1.9
alpha-BHC		0.24	U	0.24	1.9
beta-BHC		0.75	U	0.75	1.9
delta-BHC		0.45	U	0.45	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		0.32	U	0.32	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		0.55	U	0.55	1.9
gamma-Chlordane		0.30	U	0.30	1.9
Methoxychlor		0.51	U	0.51	3.7
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	89		59 - 115
Decachlorobiphenyl	95		63 - 124

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM3**

Lab Sample ID: 280-22245-6
Client Matrix: Solid

% Moisture: 5.2

Date Sampled: 10/30/2011 1425
Date Received: 11/01/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-94235	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	11/09/2011 0024			Injection Volume:	1 uL
Prep Date:	11/01/2011 1750			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.62	U	0.62	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.70	U	0.70	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.49	U	0.49	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.45	U	0.45	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.5
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		17	U	17	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	98		59 - 115
Decachlorobiphenyl	110		63 - 124

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM4**

Lab Sample ID: 280-22245-7
Client Matrix: Solid

% Moisture: 14.9

Date Sampled: 10/30/2011 1400
Date Received: 11/01/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-94235	Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	11/09/2011 0042			Injection Volume:	1 uL
Prep Date:	11/01/2011 1750			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		1.4	J	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	74		59 - 115
Decachlorobiphenyl	104		63 - 124

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM5**

Lab Sample ID: 280-22245-8
Client Matrix: Solid

% Moisture: 19.2

Date Sampled: 10/30/2011 1405
Date Received: 11/01/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-94235	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	11/09/2011 0100			Injection Volume:	1 uL
Prep Date:	11/01/2011 1750			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.64	U	0.64	2.0
4,4'-DDE		0.31	J	0.28	2.0
4,4'-DDT		1.1	J	0.69	2.0
Aldrin		0.29	U	0.29	1.9
alpha-BHC		0.25	U	0.25	1.9
beta-BHC		0.78	U	0.78	1.9
delta-BHC		0.47	U	0.47	1.9
gamma-BHC (Lindane)		0.55	U	0.55	1.9
Heptachlor		0.25	U	0.25	1.9
Heptachlor epoxide		0.50	U	0.50	1.9
Endosulfan I		0.21	U	0.21	1.9
Endosulfan II		0.34	U	0.34	2.0
Endosulfan sulfate		0.32	U	0.32	2.0
Endrin		0.36	U	0.36	2.0
Endrin aldehyde		0.20	U	0.20	2.0
Endrin ketone		0.57	U	0.57	2.0
gamma-Chlordane		0.31	U	0.31	2.0
Methoxychlor		0.53	U	0.53	3.9
alpha-Chlordane		0.38	U	0.38	2.0
Dieldrin		0.25	U	0.25	2.0
Toxaphene		19	U	19	190

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	75		59 - 115
Decachlorobiphenyl	102		63 - 124

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM6**

Lab Sample ID: 280-22245-9
Client Matrix: Solid

% Moisture: 4.5

Date Sampled: 10/30/2011 1410
Date Received: 11/01/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-94235	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	11/09/2011 0118			Injection Volume:	1 uL
Prep Date:	11/01/2011 1750			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	101		59 - 115
Decachlorobiphenyl	112		63 - 124

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM7**

Lab Sample ID: 280-22245-10
Client Matrix: Solid
% Moisture: 17.4

Date Sampled: 10/30/2011 1345
Date Received: 11/01/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-94235	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	11/09/2011 0417			Injection Volume:	1 uL
Prep Date:	11/01/2011 1750			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.63	U	0.63	2.0
4,4'-DDE		0.40	J	0.27	2.0
Aldrin		0.29	U	0.29	1.9
alpha-BHC		0.25	U	0.25	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		0.25	U	0.25	1.9
Heptachlor epoxide		0.49	U	0.49	1.9
Endosulfan I		0.20	U	0.20	1.9
Endosulfan II		0.33	U	0.33	2.0
Endosulfan sulfate		0.32	U	0.32	2.0
Endrin		0.35	U	0.35	2.0
Endrin aldehyde		0.20	U	0.20	2.0
Endrin ketone		0.56	U	0.56	2.0
gamma-Chlordane		0.31	U	0.31	2.0
alpha-Chlordane		0.37	U	0.37	2.0
Dieldrin		0.24	U	0.24	2.0
Toxaphene		18	U	18	190

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	69		59 - 115
Decachlorobiphenyl	87		63 - 124

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM7**

Lab Sample ID: 280-22245-10
Client Matrix: Solid

% Moisture: 17.4

Date Sampled: 10/30/2011 1345
Date Received: 11/01/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-94235	Initial Weight/Volume:	31.6 g
Dilution:	10			Final Weight/Volume:	10000 uL
Analysis Date:	11/08/2011 1545	Run Type:	DL	Injection Volume:	1 uL
Prep Date:	11/01/2011 1750	.		Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		6.8	U D	6.8	20
Methoxychlor		5.2	U D	5.2	38

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	57	D	59 - 115
Decachlorobiphenyl	75	D	63 - 124

Job Number: 280-22245-1
Sdg Number: J01313

Client: Washington Closure Hanford

Client Sample ID: **J1CYM8**

Date Sampled: 10/30/2011 1350
Date Received: 11/01/2011 0900

Lab Sample ID: 280-22245-11
Client Matrix: Solid

% Moisture: 14.2

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-94235	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	11/09/2011 0435			Injection Volume:	1 uL
Prep Date:	11/01/2011 1750			Result Type:	PRIMARY

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	0.62	U	0.62	1.9
4,4'-DDE	0.44	J X	0.27	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	0.49	U	0.49	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
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	67		59 - 115
Decachlorobiphenyl	98		63 - 124

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM8**

Lab Sample ID: 280-22245-11
Client Matrix: Solid

% Moisture: 14.2

Date Sampled: 10/30/2011 1350
Date Received: 11/01/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-94235	Initial Weight/Volume:	30.7 g
Dilution:	10			Final Weight/Volume:	10000 uL
Analysis Date:	11/08/2011 1604	Run Type:	DL	Injection Volume:	1 uL
Prep Date:	11/01/2011 1750			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		6.7	U D	6.7	19
Methoxychlor		5.1	U D	5.1	38

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	58	D	59 - 115
Decachlorobiphenyl	86	D	63 - 124

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM9**

Lab Sample ID: 280-22245-12
Client Matrix: Solid

% Moisture: 6.6

Date Sampled: 10/30/2011 1355
Date Received: 11/01/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-94235	Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	11/09/2011 0136			Injection Volume:	1 uL
Prep Date:	11/01/2011 1750			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	102		59 - 115
Decachlorobiphenyl	112		63 - 124

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYN0**

Lab Sample ID: 280-22245-13FD
Client Matrix: Solid
% Moisture: 16.6

Date Sampled: 10/30/2011 1345
Date Received: 11/01/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-94235	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	11/09/2011 0452			Injection Volume:	1 uL
Prep Date:	11/01/2011 1750			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.63	U	0.63	2.0
4,4'-DDE		0.51	J	0.27	2.0
Aldrin		0.29	U	0.29	1.9
alpha-BHC		0.25	U	0.25	1.9
beta-BHC		0.77	U	0.77	1.9
delta-BHC		0.46	U	0.46	1.9
gamma-BHC (Lindane)		0.54	U	0.54	1.9
Heptachlor		0.25	U	0.25	1.9
Heptachlor epoxide		0.49	U	0.49	1.9
Endosulfan I		0.20	U	0.20	1.9
Endosulfan II		0.33	U	0.33	2.0
Endosulfan sulfate		0.32	U	0.32	2.0
Endrin		0.35	U	0.35	2.0
Endrin aldehyde		0.20	U	0.20	2.0
Endrin ketone		0.56	U	0.56	2.0
gamma-Chlordane		0.31	U	0.31	2.0
alpha-Chlordane		0.37	U	0.37	2.0
Dieldrin		0.24	U	0.24	2.0
Toxaphene		18	U	18	190

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

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYN0**

Lab Sample ID: 280-22245-13FD
Client Matrix: Solid
% Moisture: 16.6

Date Sampled: 10/30/2011 1345
Date Received: 11/01/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-94235	Initial Weight/Volume:	31.2 g
Dilution:	10			Final Weight/Volume:	10000 uL
Analysis Date:	11/08/2011 1621	Run Type:	DL	Injection Volume:	1 uL
Prep Date:	11/01/2011 1750			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		6.8	U D	6.8	20
Methoxychlor		5.2	U D	5.2	38

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	53	D	59 - 115
Decachlorobiphenyl	156	D	63 - 124

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYL8**

Lab Sample ID: 280-22245-1
Client Matrix: Solid % Moisture: 20.3

Date Sampled: 10/30/2011 1430
Date Received: 11/01/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-94547	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-94241	Initial Weight/Volume:	31.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	11/02/2011 1531			Injection Volume:	1 uL
Prep Date:	11/01/2011 1640			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		3.3	U	3.3	12
Aroclor 1221		9.5	U	9.5	20
Aroclor 1232		2.4	U	2.4	12
Aroclor 1242		5.5	U	5.5	12
Aroclor 1248		5.5	U	5.5	12
Aroclor 1254		3.1	U	3.1	12
Aroclor 1260		3.1	U	3.1	12

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	64		59 - 130
Tetrachloro-m-xylene	92		53 - 128

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYL9**

Lab Sample ID: 280-22245-2
Client Matrix: Solid

% Moisture: 8.8

Date Sampled: 10/30/2011 1435
Date Received: 11/01/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-94547	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-94241	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	11/02/2011 1552			Injection Volume:	1 uL
Prep Date:	11/01/2011 1640			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		3.0	U	3.0	11
Aroclor 1221		8.7	U	8.7	18
Aroclor 1232		2.2	U	2.2	11
Aroclor 1242		5.1	U	5.1	11
Aroclor 1248		5.1	U	5.1	11
Aroclor 1254		2.8	U	2.8	11
Aroclor 1260		2.8	U	2.8	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	90		59 - 130
Tetrachloro-m-xylene	97		53 - 128

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM0**

Lab Sample ID: 280-22245-3
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 10/30/2011 1440
Date Received: 11/01/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-94547	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-94241	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	11/02/2011 1614			Injection Volume:	1 uL
Prep Date:	11/01/2011 1640			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	93		59 - 130
Tetrachloro-m-xylene	95		53 - 128

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM1**

Lab Sample ID: 280-22245-4
Client Matrix: Solid
% Moisture: 18.2

Date Sampled: 10/30/2011 1415
Date Received: 11/01/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-94547	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-94241	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	11/02/2011 1635			Injection Volume:	1 uL
Prep Date:	11/01/2011 1640			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		3.4	U	3.4	12
Aroclor 1221		9.7	U	9.7	20
Aroclor 1232		2.4	U	2.4	12
Aroclor 1242		5.7	U	5.7	12
Aroclor 1248		5.7	U	5.7	12
Aroclor 1254		3.2	U	3.2	12
Aroclor 1260		3.2	U	3.2	12

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	68		59 - 130
Tetrachloro-m-xylene	97		53 - 128

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM2**

Lab Sample ID: 280-22245-5
Client Matrix: Solid
% Moisture: 13.4

Date Sampled: 10/30/2011 1420
Date Received: 11/01/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-94547	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-94241	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	11/02/2011 1656			Injection Volume:	1 uL
Prep Date:	11/01/2011 1640			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		3.1	U	3.1	11
Aroclor 1221		8.9	U	8.9	18
Aroclor 1232		2.2	U	2.2	11
Aroclor 1242		5.2	U	5.2	11
Aroclor 1248		5.2	U	5.2	11
Aroclor 1254		2.9	U	2.9	11
Aroclor 1260		2.9	U	2.9	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	89		59 - 130
Tetrachloro-m-xylene	99		53 - 128

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM3**

Lab Sample ID: 280-22245-6
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 10/30/2011 1425
Date Received: 11/01/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-94547	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-94241	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	11/02/2011 1718			Injection Volume:	1 uL
Prep Date:	11/01/2011 1640			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	92		59 - 130
Tetrachloro-m-xylene	97		53 - 128

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM4**

Lab Sample ID: 280-22245-7
Client Matrix: Solid
% Moisture: 14.9

Date Sampled: 10/30/2011 1400
Date Received: 11/01/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-94547	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-94241	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	11/02/2011 1739			Injection Volume:	1 uL
Prep Date:	11/01/2011 1640			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		3.2	U	3.2	11
Aroclor 1221		9.2	U	9.2	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		3.0	U	3.0	11
Aroclor 1260		3.0	U	3.0	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	70		59 - 130
Tetrachloro-m-xylene	95		53 - 128

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM5**

Lab Sample ID: 280-22245-8
Client Matrix: Solid
% Moisture: 19.2

Date Sampled: 10/30/2011 1405
Date Received: 11/01/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-94547	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-94241	Initial Weight/Volume:	32.0 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	11/02/2011 1801			Injection Volume:	1 uL
Prep Date:	11/01/2011 1640			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		3.2	U	3.2	12
Aroclor 1221		9.3	U	9.3	19
Aroclor 1232		2.3	U	2.3	12
Aroclor 1242		5.4	U	5.4	12
Aroclor 1248		5.4	U	5.4	12
Aroclor 1254		6.9	J	3.0	12
Aroclor 1260		3.0	U	3.0	12

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	77		59 - 130
Tetrachloro-m-xylene	97		53 - 128

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM6**

Lab Sample ID: 280-22245-9
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 10/30/2011 1410
Date Received: 11/01/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-94547	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-94241	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	11/02/2011 1822			Injection Volume:	1 uL
Prep Date:	11/01/2011 1640			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	91		59 - 130
Tetrachloro-m-xylene	95		53 - 128

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM7**

Lab Sample ID: 280-22245-10
Client Matrix: Solid
% Moisture: 17.4

Date Sampled: 10/30/2011 1345
Date Received: 11/01/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-94548	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-94241	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	11/02/2011 1926			Injection Volume:	1 uL
Prep Date:	11/01/2011 1640			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		3.3	U	3.3	12
Aroclor 1221		9.5	U	9.5	20
Aroclor 1232		2.4	U	2.4	12
Aroclor 1242		5.5	U	5.5	12
Aroclor 1248		5.5	U	5.5	12
Aroclor 1254		14	P	3.1	12
Aroclor 1260		17		3.1	12

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	89		59 - 130
Tetrachloro-m-xylene	88		53 - 128

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM8**

Lab Sample ID: 280-22245-11
Client Matrix: Solid

% Moisture: 14.2

Date Sampled: 10/30/2011 1350
Date Received: 11/01/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-94547	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-94241	Initial Weight/Volume:	31.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	11/02/2011 1926			Injection Volume:	1 uL
Prep Date:	11/01/2011 1640			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		3.1	U	3.1	11
Aroclor 1221		8.9	U	8.9	18
Aroclor 1232		2.2	U	2.2	11
Aroclor 1242		5.2	U	5.2	11
Aroclor 1248		5.2	U	5.2	11
Aroclor 1254		4.2	J	2.9	11
Aroclor 1260		2.9	U	2.9	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	77		59 - 130
Tetrachloro-m-xylene	98		53 - 128

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM9**

Lab Sample ID: 280-22245-12
Client Matrix: Solid
% Moisture: 6.6

Date Sampled: 10/30/2011 1355
Date Received: 11/01/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-94547	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-94241	Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	11/02/2011 1947			Injection Volume:	1 uL
Prep Date:	11/01/2011 1640			Result Type:	PRIMARY

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

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

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYN0**

Lab Sample ID: 280-22245-13FD
Client Matrix: Solid
% Moisture: 16.6

Date Sampled: 10/30/2011 1345
Date Received: 11/01/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-94547	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-94241	Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	11/02/2011 2052			Injection Volume:	1 uL
Prep Date:	11/01/2011 1640			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		3.2	U	3.2	12
Aroclor 1221		9.3	U	9.3	19
Aroclor 1232		2.3	U	2.3	12
Aroclor 1242		5.4	U	5.4	12
Aroclor 1248		5.4	U	5.4	12
Aroclor 1254		3.0	U	3.0	12
Aroclor 1260		3.0	U	3.0	12

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	88		59 - 130
Tetrachloro-m-xylene	100		53 - 128

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYL8**

Lab Sample ID: 280-22245-1
Client Matrix: Solid
% Moisture: 20.3

Date Sampled: 10/30/2011 1430
Date Received: 11/01/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-94628	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-94242	Initial Weight/Volume:	31.8 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	11/03/2011 1720			Injection Volume:	20 uL
Prep Date:	11/01/2011 2128			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		64	J X	12	120
Acenaphthylene		11	U	11	120
Anthracene		3.6	U	3.6	24
Benzo[a]anthracene		9.1	J	3.8	18
Benzo[a]pyrene		18		7.6	18
Benzo[b]fluoranthene		5.0	U	5.0	18
Benzo[g,h,i]perylene		8.5	U	8.5	36
Benzo[k]fluoranthene		4.7	U	4.7	18
Chrysene		10	J	5.7	47
Dibenzo(a,h)anthracene		13	U	13	36
Fluoranthene		20	J	15	47
Fluorene		6.3	U	6.3	36
Indeno[1,2,3-cd]pyrene		14	U	14	36
Naphthalene		14	U	14	120
Phenanthrene		24	J	14	47
Pyrene		18	J X	14	47

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

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYL9**

Lab Sample ID: 280-22245-2
Client Matrix: Solid
% Moisture: 8.8

Date Sampled: 10/30/2011 1435
Date Received: 11/01/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-94628	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-94242	Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	11/03/2011 1750			Injection Volume:	20 uL
Prep Date:	11/01/2011 2128			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U N	11	110
Acenaphthylene		9.6	U	9.6	110
Anthracene		3.2	U N	3.2	21
Benzo[a]anthracene		3.4	U N	3.4	16
Benzo[a]pyrene		6.8	U N	6.8	16
Benzo[b]fluoranthene		4.5	U N	4.5	16
Benzo[g,h,i]perylene		7.6	U N	7.6	32
Benzo[k]fluoranthene		4.2	U N	4.2	16
Chrysene		5.1	U N	5.1	42
Dibenzo(a,h)anthracene		12	U N	12	32
Fluoranthene		14	U N	14	42
Fluorene		5.6	U N	5.6	32
Indeno[1,2,3-cd]pyrene		13	U N	13	32
Naphthalene		13	U	13	110
Phenanthrene		13	U N	13	42
Pyrene		13	U N	13	42

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	89		72 - 115

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM0**

Lab Sample ID: 280-22245-3
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 10/30/2011 1440
Date Received: 11/01/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-94628	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-94242	Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	11/03/2011 1922			Injection Volume:	20 uL
Prep Date:	11/01/2011 2128			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		4.3	U	4.3	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	41
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	U	13	41
Fluorene		5.4	U	5.4	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		12	U	12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	86		72 - 115

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM1**

Lab Sample ID: 280-22245-4
Client Matrix: Solid
% Moisture: 18.2

Date Sampled: 10/30/2011 1415
Date Received: 11/01/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-94628	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-94242	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	11/03/2011 1952			Injection Volume:	20 uL
Prep Date:	11/01/2011 2128			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		930	X	12	120
Acenaphthylene		11	U	11	120
Anthracene		3.7	U	3.7	24
Benzo[a]anthracene		9.9	J	3.9	18
Benzo[a]pyrene		39	X	7.8	18
Benzo[b]fluoranthene		5.1	U	5.1	18
Benzo[g,h,i]perylene		8.7	U	8.7	36
Benzo[k]fluoranthene		4.8	U	4.8	18
Chrysene		8.1	J	5.9	49
Dibenzo(a,h)anthracene		13	U	13	36
Fluoranthene		16	U	16	49
Fluorene		6.4	U	6.4	36
Indeno[1,2,3-cd]pyrene		15	U	15	36
Naphthalene		15	U	15	120
Phenanthrene		15	U	15	49
Pyrene		16	J X	15	49

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	81		72 - 115

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM2**

Lab Sample ID: 280-22245-5
Client Matrix: Solid
% Moisture: 13.4

Date Sampled: 10/30/2011 1420
Date Received: 11/01/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-94628	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-94242	Initial Weight/Volume:	32.0 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	11/03/2011 2023			Injection Volume:	20 uL
Prep Date:	11/01/2011 2128			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		2700	X	11	110
Acenaphthylene		9.7	U	9.7	110
Anthracene		3.3	U	3.3	22
Benzo[a]anthracene		3.5	U	3.5	16
Benzo[a]pyrene		27		6.9	16
Benzo[b]fluoranthene		20		4.5	16
Benzo[g,h,i]perylene		7.8	U	7.8	32
Benzo[k]fluoranthene		9.9	J	4.3	16
Chrysene		18	J	5.2	43
Dibenzo(a,h)anthracene		12	U	12	32
Fluoranthene		17	J X	14	43
Fluorene		5.7	U	5.7	32
Indeno[1,2,3-cd]pyrene		20	J	13	32
Naphthalene		13	U	13	110
Phenanthrene		13	U	13	43
Pyrene		27	J X	13	43

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

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM3**

Lab Sample ID: 280-22245-6
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 10/30/2011 1425
Date Received: 11/01/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-94628	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-94242	Initial Weight/Volume:	31.5 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	11/03/2011 2054			Injection Volume:	20 uL
Prep Date:	11/01/2011 2128			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)	90		72 - 115

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM4**

Lab Sample ID: 280-22245-7
Client Matrix: Solid
% Moisture: 14.9

Date Sampled: 10/30/2011 1400
Date Received: 11/01/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-94628	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-94242	Initial Weight/Volume:	32.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	11/03/2011 2155			Injection Volume:	20 uL
Prep Date:	11/01/2011 2128			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		9.9	U	9.9	110
Anthracene		3.4	U	3.4	22
Benzo[a]anthracene		3.5	U	3.5	16
Benzo[a]pyrene		7.0	U	7.0	16
Benzo[b]fluoranthene		5.9	J	4.6	16
Benzo[g,h,i]perylene		7.9	U	7.9	33
Benzo[k]fluoranthene		4.3	U	4.3	16
Chrysene		5.3	U	5.3	44
Dibenzo(a,h)anthracene		12	U	12	33
Fluoranthene		14	U	14	44
Fluorene		5.8	U	5.8	33
Indeno[1,2,3-cd]pyrene		13	U	13	33
Naphthalene		13	U	13	110
Phenanthrene		13	U	13	44
Pyrene		13	U	13	44

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

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM5**

Lab Sample ID: 280-22245-8
Client Matrix: Solid

% Moisture: 19.2

Date Sampled: 10/30/2011 1405
Date Received: 11/01/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-94628	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-94242	Initial Weight/Volume:	32.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	11/03/2011 2225			Injection Volume:	20 uL
Prep Date:	11/01/2011 2128			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		12	U	12	120
Acenaphthylene		10	U	10	120
Anthracene		3.5	U	3.5	23
Benzo[a]anthracene		3.7	U	3.7	17
Benzo[a]pyrene		15	J	7.4	17
Benzo[b]fluoranthene		6.1	J	4.8	17
Benzo[g,h,i]perylene		8.3	U	8.3	35
Benzo[k]fluoranthene		4.5	U	4.5	17
Chrysene		6.0	J X	5.6	46
Dibenzo(a,h)anthracene		13	U	13	35
Fluoranthene		15	U	15	46
Fluorene		6.1	U	6.1	35
Indeno[1,2,3-cd]pyrene		14	U	14	35
Naphthalene		14	U	14	120
Phenanthrene		27	J	14	46
Pyrene		14	U	14	46

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

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM6**

Lab Sample ID: 280-22245-9
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 10/30/2011 1410
Date Received: 11/01/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-94628	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-94242	Initial Weight/Volume:	32.3 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	11/03/2011 2256			Injection Volume:	20 uL
Prep Date:	11/01/2011 2128			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.7	U	9.7	97
Acenaphthylene		8.8	U	8.8	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)	90		72 - 115

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM7**

Lab Sample ID: 280-22245-10
Client Matrix: Solid
% Moisture: 17.4

Date Sampled: 10/30/2011 1345
Date Received: 11/01/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-94628	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-94242	Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	11/03/2011 2326			Injection Volume:	20 uL
Prep Date:	11/01/2011 2128			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		12	U	12	120
Acenaphthylene		11	U	11	120
Anthracene		3.6	U	3.6	23
Benzo[a]anthracene		3.7	U	3.7	18
Benzo[a]pyrene		7.5	U	7.5	18
Benzo[b]fluoranthene		4.9	U	4.9	18
Benzo[g,h,i]perylene		8.4	U	8.4	35
Benzo[k]fluoranthene		4.6	U	4.6	18
Chrysene		5.7	U	5.7	47
Dibenzo(a,h)anthracene		13	U	13	35
Fluoranthene		15	U	15	47
Fluorene		6.2	U	6.2	35
Indeno[1,2,3-cd]pyrene		14	U	14	35
Naphthalene		14	U	14	120
Phenanthrene		14	U	14	47
Pyrene		14	U	14	47

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

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM8**

Lab Sample ID: 280-22245-11
Client Matrix: Solid

% Moisture: 14.2

Date Sampled: 10/30/2011 1350
Date Received: 11/01/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-94628	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-94242	Initial Weight/Volume:	32.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	11/03/2011 2357			Injection Volume:	20 uL
Prep Date:	11/01/2011 2128			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		9.8	U	9.8	110
Anthracene		3.3	U	3.3	22
Benzo[a]anthracene		3.5	U	3.5	16
Benzo[a]pyrene		7.0	U	7.0	16
Benzo[b]fluoranthene		5.1	J X	4.6	16
Benzo[g,h,i]perylene		7.8	U	7.8	33
Benzo[k]fluoranthene		4.3	U	4.3	16
Chrysene		5.3	U	5.3	44
Dibenzo(a,h)anthracene		12	U	12	33
Fluoranthene		14	U	14	44
Fluorene		5.8	U	5.8	33
Indeno[1,2,3-cd]pyrene		13	U	13	33
Naphthalene		13	U	13	110
Phenanthrene		13	U	13	44
Pyrene		13	U	13	44

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

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM9**

Lab Sample ID: 280-22245-12
Client Matrix: Solid

% Moisture: 6.6

Date Sampled: 10/30/2011 1355
Date Received: 11/01/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-94628	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-94242	Initial Weight/Volume:	33.0 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	11/04/2011 0027			Injection Volume:	20 uL
Prep Date:	11/01/2011 2128			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.7	U	9.7	97
Acenaphthylene		8.8	U	8.8	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)	91		72 - 115

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYN0**

Lab Sample ID: 280-22245-13FD
Client Matrix: Solid
% Moisture: 16.6

Date Sampled: 10/30/2011 1345
Date Received: 11/01/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-94628	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-94242	Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	11/04/2011 0058			Injection Volume:	20 uL
Prep Date:	11/01/2011 2128			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		12	U	12	120
Acenaphthylene		11	U	11	120
Anthracene		3.6	U	3.6	24
Benzo[a]anthracene		3.8	U	3.8	18
Benzo[a]pyrene		24	X	7.6	18
Benzo[b]fluoranthene		17	J X	5.0	18
Benzo[g,h,i]perylene		8.5	U	8.5	36
Benzo[k]fluoranthene		4.7	U	4.7	18
Chrysene		5.7	U	5.7	47
Dibenzo(a,h)anthracene		13	U	13	36
Fluoranthene		15	U	15	47
Fluorene		6.3	U	6.3	36
Indeno[1,2,3-cd]pyrene		14	U	14	36
Naphthalene		14	U	14	120
Phenanthrene		14	U	14	47
Pyrene		14	U	14	47

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

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYL8**

Lab Sample ID: 280-22245-1
Client Matrix: Solid
% Moisture: 20.3

Date Sampled: 10/30/2011 1430
Date Received: 11/01/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-95603	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25B7110911.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/10/2011 0930			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6790	X	1.9	6.0
Antimony		0.79		0.45	0.72
Arsenic		4.1		0.79	1.2
Barium		80.8	X	0.091	0.60
Beryllium		0.91		0.039	0.24
Boron		1.2	U	1.2	2.4
Calcium		5590	X	16.9	59.8
Chromium		23.9	X	0.069	0.24
Copper		25.4		0.26	1.2
Iron		24600	X	4.5	6.0
Lead		25.5	X	0.32	0.60
Magnesium		5040	X	4.4	23.9
Manganese		348	X	0.12	1.2
Molybdenum		0.31	U	0.31	2.4
Nickel		12.2	X	0.15	4.8
Potassium		648		49.0	359
Selenium		1.0	U	1.0	1.2
Silicon		270		6.8	12.0
Silver		0.19	U	0.19	0.24
Sodium		409		70.5	143
Vanadium		65.8		0.11	2.4
Zinc		126	X N	0.48	1.2

Analysis Method:	6010B	Analysis Batch:	280-95916	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25A6111011.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/11/2011 1006			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.79		0.049	0.24
Cobalt		9.2	X	0.12	1.2

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-94736	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-94219	Lab File ID:	111103aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	11/03/2011 2200			Final Weight/Volume:	50 mL
Prep Date:	11/03/2011 1350				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.26	N	0.0063	0.019

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYL9**

Lab Sample ID: 280-22245-2
Client Matrix: Solid
% Moisture: 8.8

Date Sampled: 10/30/2011 1435
Date Received: 11/01/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-95603	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25B7110911.asc
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Analysis Date:	11/10/2011 0940			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4970	X	1.7	5.5
Antimony		0.42	U	0.42	0.66
Arsenic		2.0		0.72	1.1
Barium		76.3	X	0.083	0.55
Beryllium		0.93		0.036	0.22
Boron		1.1	U	1.1	2.2
Calcium		4340	X	15.5	54.8
Chromium		6.1	X	0.064	0.22
Copper		14.0		0.24	1.1
Iron		22100	X	4.2	5.5
Lead		8.6	X	0.30	0.55
Magnesium		3820	X	4.1	21.9
Manganese		281	X	0.11	1.1
Molybdenum		0.29	U	0.29	2.2
Nickel		8.9	X	0.13	4.4
Potassium		511		45.0	329
Selenium		0.94	U	0.94	1.1
Silicon		195		6.2	11.0
Silver		0.18	U	0.18	0.22
Sodium		258		64.7	132
Vanadium		68.1		0.10	2.2
Zinc		47.2	X	0.44	1.1

Analysis Method:	6010B	Analysis Batch:	280-95916	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25A6111011.asc
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Analysis Date:	11/11/2011 1016			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.11	B	0.045	0.22
Cobalt		7.8	X	0.11	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-94736	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-94219	Lab File ID:	111103aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	11/03/2011 2209			Final Weight/Volume:	50 mL
Prep Date:	11/03/2011 1350				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.016	B	0.0056	0.017

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM0**

Lab Sample ID: 280-22245-3
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 10/30/2011 1440
Date Received: 11/01/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-95603	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25B7110911.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	11/10/2011 0943			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4200	X	1.5	4.8
Antimony		0.36	U	0.36	0.57
Arsenic		1.3		0.63	0.95
Barium		82.5	X	0.072	0.48
Boron		0.93	U	0.93	1.9
Calcium		4540	X	13.4	47.6
Chromium		3.4	X	0.055	0.19
Iron		21700	X	3.6	4.8
Magnesium		3680	X	3.5	19.0
Manganese		365	X	0.095	0.95
Molybdenum		0.25	U	0.25	1.9
Nickel		7.9	X	0.12	3.8
Potassium		379		39.0	285
Selenium		0.82	U	0.82	0.95
Silicon		144		5.4	9.5
Silver		0.15	U	0.15	0.19
Sodium		364		56.1	114
Zinc		39.8	X	0.38	0.95

Analysis Method:	6010B	Analysis Batch:	280-95916	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25A6111011.asc
Dilution:	5.0			Initial Weight/Volume:	1.10 g
Analysis Date:	11/11/2011 1019			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Beryllium		1.1		0.16	0.95
Cadmium		0.20	U	0.20	0.95
Cobalt		9.8	X	0.48	4.8
Copper		15.8		1.0	4.8
Lead		3.4	X	1.3	2.4
Vanadium		78.0		0.45	9.5

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-94736	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-94219	Lab File ID:	111103aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	11/03/2011 2212			Final Weight/Volume:	50 mL
Prep Date:	11/03/2011 1350				

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

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM1**

Lab Sample ID: 280-22245-4
Client Matrix: Solid
% Moisture: 18.2

Date Sampled: 10/30/2011 1415
Date Received: 11/01/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-95603	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25B7110911.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	11/10/2011 0946			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6900	X	1.8	5.7
Antimony		0.51	B	0.43	0.69
Arsenic		9.5		0.75	1.1
Barium		89.5	X	0.087	0.57
Beryllium		0.88		0.038	0.23
Boron		1.1	U	1.1	2.3
Calcium		24600	X	16.1	57.1
Chromium		19.3	X	0.066	0.23
Copper		23.8		0.25	1.1
Iron		22800	X	4.3	5.7
Lead		20.5	X	0.31	0.57
Magnesium		5840	X	4.2	22.9
Manganese		348	X	0.11	1.1
Molybdenum		0.35	B	0.30	2.3
Nickel		11.3	X	0.14	4.6
Potassium		694		46.9	343
Selenium		0.98	U	0.98	1.1
Silicon		287		6.5	11.4
Silver		0.18	U	0.18	0.23
Sodium		308		67.4	137
Vanadium		59.3		0.11	2.3
Zinc		146	X	0.45	1.1

Analysis Method:	6010B	Analysis Batch:	280-95916	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25A6111011.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	11/11/2011 1021			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		1.1		0.047	0.23
Cobalt		7.7	X	0.11	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-94736	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-94219	Lab File ID:	111103aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	11/03/2011 2214			Final Weight/Volume:	50 mL
Prep Date:	11/03/2011 1350				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.27		0.0063	0.019

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM2**

Lab Sample ID: 280-22245-5
Client Matrix: Solid
% Moisture: 13.4

Date Sampled: 10/30/2011 1420
Date Received: 11/01/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-95603	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25B7110911.asc
Dilution:	1.0			Initial Weight/Volume:	1.18 g
Analysis Date:	11/10/2011 1001			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5210	X	1.5	4.9
Antimony		0.37	B	0.37	0.59
Arsenic		2.5		0.65	0.98
Barium		82.2	X	0.074	0.49
Beryllium		0.90		0.032	0.20
Boron		0.96	U	0.96	2.0
Calcium		4220	X	13.8	48.9
Chromium		16.1	X	0.057	0.20
Copper		14.8		0.21	0.98
Iron		22000	X	3.7	4.9
Lead		13.1	X	0.26	0.49
Magnesium		3640	X	3.6	19.6
Manganese		313	X	0.098	0.98
Molybdenum		0.25	U	0.25	2.0
Nickel		9.7	X	0.12	3.9
Potassium		557		40.1	294
Selenium		0.84	U	0.84	0.98
Silicon		188		5.5	9.8
Silver		0.16	U	0.16	0.20
Sodium		232		57.7	117
Vanadium		64.1		0.092	2.0
Zinc		73.6	X	0.39	0.98

Analysis Method:	6010B	Analysis Batch:	280-95916	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25A6111011.asc
Dilution:	1.0			Initial Weight/Volume:	1.18 g
Analysis Date:	11/11/2011 1024			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.52		0.040	0.20
Cobalt		7.5	X	0.098	0.98

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-94736	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-94219	Lab File ID:	111103aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Analysis Date:	11/03/2011 2216			Final Weight/Volume:	50 mL
Prep Date:	11/03/2011 1350				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.088		0.0064	0.020

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM3**

Lab Sample ID: 280-22245-6
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 10/30/2011 1425
Date Received: 11/01/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-95603	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25B7110911.asc
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	11/10/2011 1003			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4010	X	1.5	4.7
Antimony		0.36	U	0.36	0.56
Arsenic		1.2		0.62	0.94
Barium		55.0	X	0.072	0.47
Boron		0.92	U	0.92	1.9
Calcium		4650	X	13.3	47.1
Chromium		4.0	X	0.055	0.19
Iron		24400	X	3.6	4.7
Magnesium		4100	X	3.5	18.8
Manganese		280	X	0.094	0.94
Molybdenum		0.25	B	0.24	1.9
Nickel		8.5	X	0.12	3.8
Potassium		345		38.6	282
Selenium		0.81	U	0.81	0.94
Silicon		160		5.3	9.4
Silver		0.15	U	0.15	0.19
Sodium		288		55.5	113
Zinc		42.9	X	0.37	0.94

Analysis Method:	6010B	Analysis Batch:	280-95916	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25A6111011.asc
Dilution:	5.0			Initial Weight/Volume:	1.12 g
Analysis Date:	11/11/2011 1036			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Beryllium		1.2		0.16	0.94
Cadmium		0.19	U	0.19	0.94
Cobalt		10.1	X	0.47	4.7
Copper		14.4		1.0	4.7
Lead		2.7	X	1.3	2.4
Vanadium		84.5		0.44	9.4

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-94736	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-94219	Lab File ID:	111103aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	11/03/2011 2223			Final Weight/Volume:	50 mL
Prep Date:	11/03/2011 1350				

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

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM4**

Lab Sample ID: 280-22245-7
Client Matrix: Solid
% Moisture: 14.9

Date Sampled: 10/30/2011 1400
Date Received: 11/01/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-95603	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25B7110911.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	11/10/2011 1006			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6680	X	1.7	5.4
Antimony		1.2		0.41	0.65
Arsenic		10.8		0.72	1.1
Barium		107	X	0.083	0.54
Beryllium		0.95		0.036	0.22
Boron		1.1	U	1.1	2.2
Calcium		6060	X	15.3	54.4
Chromium		36.6	X	0.063	0.22
Copper		41.5		0.24	1.1
Iron		25600	X	4.1	5.4
Lead		31.2	X	0.29	0.54
Magnesium		5080	X	4.0	21.8
Manganese		518	X	0.11	1.1
Molybdenum		2.2		0.28	2.2
Nickel		13.1	X	0.13	4.4
Potassium		536		44.6	327
Selenium		0.94	U	0.94	1.1
Silicon		221		6.2	10.9
Silver		0.17	U	0.17	0.22
Sodium		308		64.2	131
Vanadium		67.0		0.10	2.2
Zinc		286	X	0.43	1.1

Analysis Method:	6010B	Analysis Batch:	280-95916	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25A6111011.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	11/11/2011 1038			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		2.8		0.045	0.22
Cobalt		9.1	X	0.11	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-94736	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-94219	Lab File ID:	111103aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	11/03/2011 2226			Final Weight/Volume:	50 mL
Prep Date:	11/03/2011 1350				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.83		0.0058	0.018

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM5**

Lab Sample ID: 280-22245-8
Client Matrix: Solid
% Moisture: 19.2

Date Sampled: 10/30/2011 1405
Date Received: 11/01/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-95603	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25B7110911.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/10/2011 1008			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6710	X	1.8	5.9
Antimony		0.45	U	0.45	0.71
Arsenic		3.5		0.78	1.2
Barium		79.6	X	0.090	0.59
Beryllium		0.93		0.039	0.24
Boron		1.2	U	1.2	2.4
Calcium		5110	X	16.6	58.9
Chromium		25.3	X	0.068	0.24
Copper		20.0		0.26	1.2
Iron		23900	X	4.5	5.9
Lead		26.1	X	0.32	0.59
Magnesium		4600	X	4.4	23.6
Manganese		359	X	0.12	1.2
Molybdenum		0.31	B	0.31	2.4
Nickel		12.8	X	0.14	4.7
Potassium		658		48.3	354
Selenium		1.0	U	1.0	1.2
Silicon		206		6.7	11.8
Silver		0.19	U	0.19	0.24
Sodium		380		69.5	141
Vanadium		66.2		0.11	2.4
Zinc		154	X	0.47	1.2

Analysis Method:	6010B	Analysis Batch:	280-95916	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25A6111011.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/11/2011 1041			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		1.2		0.048	0.24
Cobalt		8.7	X	0.12	1.2

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-94736	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-94219	Lab File ID:	111103aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	11/03/2011 2230			Final Weight/Volume:	50 mL
Prep Date:	11/03/2011 1350				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.18		0.0060	0.018

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM6**

Lab Sample ID: 280-22245-9
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 10/30/2011 1410
Date Received: 11/01/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-95603	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25B7110911.asc
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	11/10/2011 1011			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4340	X	1.6	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		1.9		0.66	1.0
Barium		57.2	X	0.077	0.50
Boron		0.99	U	0.99	2.0
Calcium		4740	X	14.2	50.3
Chromium		5.4	X	0.058	0.20
Iron		23600	X	3.8	5.0
Magnesium		4130	X	3.7	20.1
Manganese		298	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		10.1	X	0.12	4.0
Potassium		368		41.3	302
Selenium		0.87	U	0.87	1.0
Silicon		153		5.7	10.1
Silver		0.16	U	0.16	0.20
Sodium		309		59.4	121
Zinc		46.4	X	0.40	1.0

Analysis Method:	6010B	Analysis Batch:	280-95916	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25A6111011.asc
Dilution:	5.0			Initial Weight/Volume:	1.04 g
Analysis Date:	11/11/2011 1043			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Beryllium		1.1		0.17	1.0
Cadmium		0.21	U	0.21	1.0
Cobalt		9.8	X	0.50	5.0
Copper		15.3		1.1	5.0
Lead		4.5	X	1.4	2.5
Vanadium		80.7		0.47	10.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-94736	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-94219	Lab File ID:	111103aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	11/03/2011 2233			Final Weight/Volume:	50 mL
Prep Date:	11/03/2011 1350				

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

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM7**

Lab Sample ID: 280-22245-10
Client Matrix: Solid
% Moisture: 17.4

Date Sampled: 10/30/2011 1345
Date Received: 11/01/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-95603	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25B7110911.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	11/10/2011 1014			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6550	X	1.7	5.6
Antimony		0.43	U	0.43	0.67
Arsenic		2.9		0.74	1.1
Barium		59.1	X	0.085	0.56
Beryllium		0.81		0.037	0.22
Boron		1.1	U	1.1	2.2
Calcium		4690	X	15.8	56.1
Chromium		27.8	X	0.065	0.22
Copper		18.6		0.24	1.1
Iron		24300	X	4.3	5.6
Lead		13.4	X	0.30	0.56
Magnesium		4450	X	4.1	22.4
Manganese		369	X	0.11	1.1
Molybdenum		0.29	U	0.29	2.2
Nickel		10.6	X	0.14	4.5
Potassium		668		46.0	336
Selenium		0.96	U	0.96	1.1
Silicon		216		6.3	11.2
Silver		0.18	U	0.18	0.22
Sodium		280		66.1	135
Vanadium		62.7		0.11	2.2
Zinc		115	X	0.45	1.1

Analysis Method:	6010B	Analysis Batch:	280-95916	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25A6111011.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	11/11/2011 1046			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.70		0.046	0.22
Cobalt		8.0	X	0.11	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-94736	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-94219	Lab File ID:	111103aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	11/03/2011 2235			Final Weight/Volume:	50 mL
Prep Date:	11/03/2011 1350				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.10		0.0058	0.018

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM8**

Lab Sample ID: 280-22245-11
Client Matrix: Solid
% Moisture: 14.2

Date Sampled: 10/30/2011 1350
Date Received: 11/01/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-95603	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25B7110911.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	11/10/2011 1016			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6790	X	1.7	5.4
Antimony		0.41	U	0.41	0.65
Arsenic		2.8		0.71	1.1
Barium		64.5	X	0.082	0.54
Beryllium		0.88		0.036	0.22
Boron		1.1	U	1.1	2.2
Calcium		4970	X	15.2	54.0
Chromium		29.3	X	0.063	0.22
Copper		20.2		0.23	1.1
Iron		23200	X	4.1	5.4
Lead		14.5	X	0.29	0.54
Magnesium		4080	X	4.0	21.6
Manganese		353	X	0.11	1.1
Molybdenum		0.28	U	0.28	2.2
Nickel		10.6	X	0.13	4.3
Potassium		733		44.3	324
Selenium		0.93	U	0.93	1.1
Silicon		242		6.1	10.8
Silver		0.17	U	0.17	0.22
Sodium		434		63.7	130
Vanadium		61.4		0.10	2.2
Zinc		107	X	0.43	1.1

Analysis Method:	6010B	Analysis Batch:	280-95916	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25A6111011.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	11/11/2011 1048			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.81		0.044	0.22
Cobalt		8.7	X	0.11	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-94736	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-94219	Lab File ID:	111103aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	11/03/2011 2237			Final Weight/Volume:	50 mL
Prep Date:	11/03/2011 1350				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.18		0.0058	0.018

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYM9**

Lab Sample ID: 280-22245-12
Client Matrix: Solid
% Moisture: 6.6

Date Sampled: 10/30/2011 1355
Date Received: 11/01/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-95603	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25B7110911.asc
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	11/10/2011 1019			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4110	X	1.5	4.8
Antimony		0.36	U	0.36	0.57
Arsenic		1.7		0.63	0.96
Barium		70.8	X	0.073	0.48
Boron		0.94	U	0.94	1.9
Calcium		4680	X	13.5	47.8
Chromium		4.5	X	0.055	0.19
Iron		24600	X	3.6	4.8
Magnesium		3920	X	3.5	19.1
Manganese		308	X	0.096	0.96
Molybdenum		0.25	U	0.25	1.9
Nickel		7.7	X	0.12	3.8
Potassium		370		39.2	287
Selenium		0.82	U	0.82	0.96
Silicon		153		5.4	9.6
Silver		0.15	U	0.15	0.19
Sodium		283		56.4	115
Zinc		51.5	X	0.38	0.96

Analysis Method:	6010B	Analysis Batch:	280-95916	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25A6111011.asc
Dilution:	5.0			Initial Weight/Volume:	1.12 g
Analysis Date:	11/11/2011 1051			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Beryllium		1.2		0.16	0.96
Cadmium		0.21	B	0.20	0.96
Cobalt		10	X	0.48	4.8
Copper		15.3		1.0	4.8
Lead		3.6	X	1.3	2.4
Vanadium		85.3		0.45	9.6

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-94736	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-94219	Lab File ID:	111103aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	11/03/2011 2240			Final Weight/Volume:	50 mL
Prep Date:	11/03/2011 1350				

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

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYN0**

Lab Sample ID: 280-22245-13FD
Client Matrix: Solid
% Moisture: 16.6

Date Sampled: 10/30/2011 1345
Date Received: 11/01/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-95603	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25B7110911.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	11/10/2011 1021			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5950	X	1.8	5.7
Antimony		0.48	B	0.43	0.68
Arsenic		3.2		0.75	1.1
Barium		68.0	X	0.086	0.57
Beryllium		0.89		0.037	0.23
Boron		1.1	U	1.1	2.3
Calcium		4530	X	16.0	56.6
Chromium		27.0	X	0.066	0.23
Copper		17.4		0.25	1.1
Iron		22800	X	4.3	5.7
Lead		15.4	X	0.31	0.57
Magnesium		4250	X	4.2	22.6
Manganese		356	X	0.11	1.1
Molybdenum		0.29	U	0.29	2.3
Nickel		12.1	X	0.14	4.5
Potassium		632		46.4	339
Selenium		0.97	U	0.97	1.1
Silicon		241		6.4	11.3
Silver		0.18	U	0.18	0.23
Sodium		287		66.8	136
Vanadium		66.6		0.11	2.3
Zinc		135	X	0.45	1.1

Analysis Method:	6010B	Analysis Batch:	280-95916	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25A6111011.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	11/11/2011 1053			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.82		0.046	0.23
Cobalt		8.0	X	0.11	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-94736	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-94219	Lab File ID:	111103aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	11/03/2011 2242			Final Weight/Volume:	50 mL
Prep Date:	11/03/2011 1350				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.11		0.0064	0.020

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Client Sample ID: **J1CYN2**

Lab Sample ID: 280-22245-14EB
Client Matrix: Solid % Moisture: 0.1

Date Sampled: 10/30/2011 1310
Date Received: 11/01/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-95603	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25B7110911.asc
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Analysis Date:	11/10/2011 1024			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		266	X	1.4	4.4
Antimony		0.33	U	0.33	0.53
Arsenic		0.58	B	0.58	0.88
Barium		2.5	X	0.067	0.44
Beryllium		0.047	B	0.029	0.18
Boron		0.86	U	0.86	1.8
Calcium		50.3	X	12.4	43.9
Chromium		0.33	X	0.051	0.18
Copper		0.30	B	0.19	0.88
Iron		620	X	3.3	4.4
Lead		0.53	X	0.24	0.44
Magnesium		36.4	X	3.2	17.6
Manganese		6.1	X	0.088	0.88
Molybdenum		0.23	U	0.23	1.8
Nickel		0.24	B X	0.11	3.5
Potassium		68.5	B	36.0	263
Selenium		0.75	U	0.75	0.88
Silicon		108		5.0	8.8
Silver		0.14	U	0.14	0.18
Sodium		51.8	U	51.8	105
Vanadium		0.72	B	0.083	1.8
Zinc		1.7	X	0.35	0.88

Analysis Method:	6010B	Analysis Batch:	280-95916	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-94656	Lab File ID:	25A6111011.asc
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Analysis Date:	11/11/2011 1056			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.036	U	0.036	0.18
Cobalt		0.17	B X	0.088	0.88

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-94736	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-94219	Lab File ID:	111103aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	11/03/2011 2244			Final Weight/Volume:	50 mL
Prep Date:	11/03/2011 1350				

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

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

General Chemistry

Client Sample ID: **J1CYL8**

Lab Sample ID: 280-22245-1
Client Matrix: Solid

Date Sampled: 10/30/2011 1430
Date Received: 11/01/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	20.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-94226 Analysis Date: 11/01/2011 1327 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

General Chemistry

Client Sample ID: **J1CYL9**

Lab Sample ID: 280-22245-2
Client Matrix: Solid

Date Sampled: 10/30/2011 1435
Date Received: 11/01/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	8.8		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-94226 Analysis Date: 11/01/2011 1327 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

General Chemistry

Client Sample ID: **J1CYM0**

Lab Sample ID: 280-22245-3
Client Matrix: Solid

Date Sampled: 10/30/2011 1440
Date Received: 11/01/2011 0900

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

Analysis Batch: 280-94226 Analysis Date: 11/01/2011 1327 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

General Chemistry

Client Sample ID: **J1CYM1**

Lab Sample ID: 280-22245-4
Client Matrix: Solid

Date Sampled: 10/30/2011 1415
Date Received: 11/01/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	18.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-94226 Analysis Date: 11/01/2011 1327 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

General Chemistry

Client Sample ID: **J1CYM2**

Lab Sample ID: 280-22245-5
Client Matrix: Solid

Date Sampled: 10/30/2011 1420
Date Received: 11/01/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	13.4		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-94226 Analysis Date: 11/01/2011 1327 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

General Chemistry

Client Sample ID: **J1CYM3**

Lab Sample ID: 280-22245-6
Client Matrix: Solid

Date Sampled: 10/30/2011 1425
Date Received: 11/01/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-94226 Analysis Date: 11/01/2011 1327 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

General Chemistry

Client Sample ID: **J1CYM4**

Lab Sample ID: 280-22245-7
Client Matrix: Solid

Date Sampled: 10/30/2011 1400
Date Received: 11/01/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	14.9		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-94226 Analysis Date: 11/01/2011 1327 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

General Chemistry

Client Sample ID: **J1CYM5**

Lab Sample ID: 280-22245-8
Client Matrix: Solid

Date Sampled: 10/30/2011 1405
Date Received: 11/01/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	19.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-94226 Analysis Date: 11/01/2011 1327 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

General Chemistry

Client Sample ID: **J1CYM6**

Lab Sample ID: 280-22245-9
Client Matrix: Solid

Date Sampled: 10/30/2011 1410
Date Received: 11/01/2011 0900

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

Analysis Batch: 280-94226 Analysis Date: 11/01/2011 1327 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

General Chemistry

Client Sample ID: **J1CYM7**

Lab Sample ID: 280-22245-10
Client Matrix: Solid

Date Sampled: 10/30/2011 1345
Date Received: 11/01/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	17.4		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-94226 Analysis Date: 11/01/2011 1327 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

General Chemistry

Client Sample ID: **J1CYM8**

Lab Sample ID: 280-22245-11
Client Matrix: Solid

Date Sampled: 10/30/2011 1350
Date Received: 11/01/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	14.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-94226 Analysis Date: 11/01/2011 1327 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

General Chemistry

Client Sample ID: **J1CYM9**

Lab Sample ID: 280-22245-12
Client Matrix: Solid

Date Sampled: 10/30/2011 1355
Date Received: 11/01/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.6		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-94226 Analysis Date: 11/01/2011 1327 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1CYN0**

Lab Sample ID: 280-22245-13FD
Client Matrix: Solid

Date Sampled: 10/30/2011 1345
Date Received: 11/01/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	16.6		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-94226 Analysis Date: 11/01/2011 1327 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

General Chemistry

Client Sample ID: **J1CYN2**

Lab Sample ID: 280-22245-14EB
Client Matrix: Solid

Date Sampled: 10/30/2011 1310
Date Received: 11/01/2011 0900

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

Analysis Batch: 280-94226 Analysis Date: 11/01/2011 1327 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 280-94230					
LCS 280-94230/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-94230/1-A	Method Blank	T	Solid	3550C	
280-22245-1	J1CYL8	T	Solid	3550C	
280-22245-1MS	Matrix Spike	T	Solid	3550C	
280-22245-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-22245-2	J1CYL9	T	Solid	3550C	
280-22245-3	J1CYM0	T	Solid	3550C	
280-22245-4	J1CYM1	T	Solid	3550C	
280-22245-5	J1CYM2	T	Solid	3550C	
280-22245-6	J1CYM3	T	Solid	3550C	
280-22245-7	J1CYM4	T	Solid	3550C	
280-22245-8	J1CYM5	T	Solid	3550C	
280-22245-9	J1CYM6	T	Solid	3550C	
280-22245-10	J1CYM7	T	Solid	3550C	
280-22245-11	J1CYM8	T	Solid	3550C	
280-22245-12	J1CYM9	T	Solid	3550C	
280-22245-13FD	J1CYN0	T	Solid	3550C	
280-22245-14EB	J1CYN2	T	Solid	3550C	
Analysis Batch:280-96135					
LCS 280-94230/2-A	Lab Control Sample	T	Solid	8270C	280-94230
MB 280-94230/1-A	Method Blank	T	Solid	8270C	280-94230
280-22245-1	J1CYL8	T	Solid	8270C	280-94230
280-22245-1MS	Matrix Spike	T	Solid	8270C	280-94230
280-22245-1MSD	Matrix Spike Duplicate	T	Solid	8270C	280-94230
280-22245-2	J1CYL9	T	Solid	8270C	280-94230
280-22245-3	J1CYM0	T	Solid	8270C	280-94230
280-22245-4	J1CYM1	T	Solid	8270C	280-94230
280-22245-5	J1CYM2	T	Solid	8270C	280-94230
280-22245-6	J1CYM3	T	Solid	8270C	280-94230
280-22245-7	J1CYM4	T	Solid	8270C	280-94230
280-22245-8	J1CYM5	T	Solid	8270C	280-94230
280-22245-9	J1CYM6	T	Solid	8270C	280-94230
280-22245-10	J1CYM7	T	Solid	8270C	280-94230
280-22245-11	J1CYM8	T	Solid	8270C	280-94230
280-22245-12	J1CYM9	T	Solid	8270C	280-94230
280-22245-13FD	J1CYN0	T	Solid	8270C	280-94230
280-22245-14EB	J1CYN2	T	Solid	8270C	280-94230

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-94235					
LCS 280-94235/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-94235/1-A	Method Blank	T	Solid	3550C	
280-22245-1	J1CYL8	T	Solid	3550C	
280-22245-1DL	J1CYL8	T	Solid	3550C	
280-22245-2	J1CYL9	T	Solid	3550C	
280-22245-3	J1CYM0	T	Solid	3550C	
280-22245-4	J1CYM1	T	Solid	3550C	
280-22245-4DL	J1CYM1	T	Solid	3550C	
280-22245-4MS	Matrix Spike	T	Solid	3550C	
280-22245-4MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-22245-5	J1CYM2	T	Solid	3550C	
280-22245-6	J1CYM3	T	Solid	3550C	
280-22245-7	J1CYM4	T	Solid	3550C	
280-22245-8	J1CYM5	T	Solid	3550C	
280-22245-9	J1CYM6	T	Solid	3550C	
280-22245-10	J1CYM7	T	Solid	3550C	
280-22245-10DL	J1CYM7	T	Solid	3550C	
280-22245-11	J1CYM8	T	Solid	3550C	
280-22245-11DL	J1CYM8	T	Solid	3550C	
280-22245-12	J1CYM9	T	Solid	3550C	
280-22245-13FD	J1CYN0	T	Solid	3550C	
280-22245-13FDDL	J1CYN0	T	Solid	3550C	
Prep Batch: 280-94241					
LCS 280-94241/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-94241/1-A	Method Blank	T	Solid	3550C	
280-22245-1	J1CYL8	T	Solid	3550C	
280-22245-2	J1CYL9	T	Solid	3550C	
280-22245-3	J1CYM0	T	Solid	3550C	
280-22245-4	J1CYM1	T	Solid	3550C	
280-22245-5	J1CYM2	T	Solid	3550C	
280-22245-6	J1CYM3	T	Solid	3550C	
280-22245-7	J1CYM4	T	Solid	3550C	
280-22245-8	J1CYM5	T	Solid	3550C	
280-22245-9	J1CYM6	T	Solid	3550C	
280-22245-10	J1CYM7	T	Solid	3550C	
280-22245-11	J1CYM8	T	Solid	3550C	
280-22245-12	J1CYM9	T	Solid	3550C	
280-22245-12MS	Matrix Spike	T	Solid	3550C	
280-22245-12MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-22245-13FD	J1CYN0	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-94547					
LCS 280-94241/2-A	Lab Control Sample	T	Solid	8082	280-94241
MB 280-94241/1-A	Method Blank	T	Solid	8082	280-94241
280-22245-1	J1CYL8	T	Solid	8082	280-94241
280-22245-2	J1CYL9	T	Solid	8082	280-94241
280-22245-3	J1CYM0	T	Solid	8082	280-94241
280-22245-4	J1CYM1	T	Solid	8082	280-94241
280-22245-5	J1CYM2	T	Solid	8082	280-94241
280-22245-6	J1CYM3	T	Solid	8082	280-94241
280-22245-7	J1CYM4	T	Solid	8082	280-94241
280-22245-8	J1CYM5	T	Solid	8082	280-94241
280-22245-9	J1CYM6	T	Solid	8082	280-94241
280-22245-10	J1CYM7	T	Solid	8082	280-94241
280-22245-11	J1CYM8	T	Solid	8082	280-94241
280-22245-12	J1CYM9	T	Solid	8082	280-94241
280-22245-12MS	Matrix Spike	T	Solid	8082	280-94241
280-22245-12MSD	Matrix Spike Duplicate	T	Solid	8082	280-94241
280-22245-13FD	J1CYN0	T	Solid	8082	280-94241
Analysis Batch:280-94548					
LCS 280-94241/2-A	Lab Control Sample	T	Solid	8082	280-94241
MB 280-94241/1-A	Method Blank	T	Solid	8082	280-94241
280-22245-8	J1CYM5	T	Solid	8082	280-94241
280-22245-10	J1CYM7	T	Solid	8082	280-94241
280-22245-11	J1CYM8	T	Solid	8082	280-94241

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-95442					
LCS 280-94235/2-A	Lab Control Sample	T	Solid	8081A	280-94235
MB 280-94235/1-A	Method Blank	T	Solid	8081A	280-94235
280-22245-1	J1CYL8	T	Solid	8081A	280-94235
280-22245-1DL	J1CYL8	T	Solid	8081A	280-94235
280-22245-2	J1CYL9	T	Solid	8081A	280-94235
280-22245-3	J1CYM0	T	Solid	8081A	280-94235
280-22245-4	J1CYM1	T	Solid	8081A	280-94235
280-22245-4DL	J1CYM1	T	Solid	8081A	280-94235
280-22245-4MS	Matrix Spike	T	Solid	8081A	280-94235
280-22245-4MSD	Matrix Spike Duplicate	T	Solid	8081A	280-94235
280-22245-5	J1CYM2	T	Solid	8081A	280-94235
280-22245-6	J1CYM3	T	Solid	8081A	280-94235
280-22245-7	J1CYM4	T	Solid	8081A	280-94235
280-22245-8	J1CYM5	T	Solid	8081A	280-94235
280-22245-9	J1CYM6	T	Solid	8081A	280-94235
280-22245-10	J1CYM7	T	Solid	8081A	280-94235
280-22245-10DL	J1CYM7	T	Solid	8081A	280-94235
280-22245-11	J1CYM8	T	Solid	8081A	280-94235
280-22245-11DL	J1CYM8	T	Solid	8081A	280-94235
280-22245-12	J1CYM9	T	Solid	8081A	280-94235
280-22245-13FD	J1CYN0	T	Solid	8081A	280-94235
280-22245-13FDDL	J1CYN0	T	Solid	8081A	280-94235

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-94219					
LCS 280-94219/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-94219/1-A	Method Blank	T	Solid	7471A	
280-22245-1	J1CYL8	T	Solid	7471A	
280-22245-1DU	Duplicate	T	Solid	7471A	
280-22245-1MS	Matrix Spike	T	Solid	7471A	
280-22245-2	J1CYL9	T	Solid	7471A	
280-22245-3	J1CYM0	T	Solid	7471A	
280-22245-4	J1CYM1	T	Solid	7471A	
280-22245-5	J1CYM2	T	Solid	7471A	
280-22245-6	J1CYM3	T	Solid	7471A	
280-22245-7	J1CYM4	T	Solid	7471A	
280-22245-8	J1CYM5	T	Solid	7471A	
280-22245-9	J1CYM6	T	Solid	7471A	
280-22245-10	J1CYM7	T	Solid	7471A	
280-22245-11	J1CYM8	T	Solid	7471A	
280-22245-12	J1CYM9	T	Solid	7471A	
280-22245-13FD	J1CYN0	T	Solid	7471A	
280-22245-14EB	J1CYN2	T	Solid	7471A	
Prep Batch: 280-94656					
LCS 280-94656/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-94656/1-A	Method Blank	T	Solid	3050B	
280-22245-1	J1CYL8	T	Solid	3050B	
280-22245-1DU	Duplicate	T	Solid	3050B	
280-22245-1MS	Matrix Spike	T	Solid	3050B	
280-22245-2	J1CYL9	T	Solid	3050B	
280-22245-3	J1CYM0	T	Solid	3050B	
280-22245-4	J1CYM1	T	Solid	3050B	
280-22245-5	J1CYM2	T	Solid	3050B	
280-22245-6	J1CYM3	T	Solid	3050B	
280-22245-7	J1CYM4	T	Solid	3050B	
280-22245-8	J1CYM5	T	Solid	3050B	
280-22245-9	J1CYM6	T	Solid	3050B	
280-22245-10	J1CYM7	T	Solid	3050B	
280-22245-11	J1CYM8	T	Solid	3050B	
280-22245-12	J1CYM9	T	Solid	3050B	
280-22245-13FD	J1CYN0	T	Solid	3050B	
280-22245-14EB	J1CYN2	T	Solid	3050B	

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-94736					
LCS 280-94219/2-A	Lab Control Sample	T	Solid	7471A	280-94219
MB 280-94219/1-A	Method Blank	T	Solid	7471A	280-94219
280-22245-1	J1CYL8	T	Solid	7471A	280-94219
280-22245-1DU	Duplicate	T	Solid	7471A	280-94219
280-22245-1MS	Matrix Spike	T	Solid	7471A	280-94219
280-22245-2	J1CYL9	T	Solid	7471A	280-94219
280-22245-3	J1CYM0	T	Solid	7471A	280-94219
280-22245-4	J1CYM1	T	Solid	7471A	280-94219
280-22245-5	J1CYM2	T	Solid	7471A	280-94219
280-22245-6	J1CYM3	T	Solid	7471A	280-94219
280-22245-7	J1CYM4	T	Solid	7471A	280-94219
280-22245-8	J1CYM5	T	Solid	7471A	280-94219
280-22245-9	J1CYM6	T	Solid	7471A	280-94219
280-22245-10	J1CYM7	T	Solid	7471A	280-94219
280-22245-11	J1CYM8	T	Solid	7471A	280-94219
280-22245-12	J1CYM9	T	Solid	7471A	280-94219
280-22245-13FD	J1CYN0	T	Solid	7471A	280-94219
280-22245-14EB	J1CYN2	T	Solid	7471A	280-94219
Analysis Batch:280-95603					
LCS 280-94656/2-A	Lab Control Sample	T	Solid	6010B	280-94656
MB 280-94656/1-A	Method Blank	T	Solid	6010B	280-94656
280-22245-1	J1CYL8	T	Solid	6010B	280-94656
280-22245-1DU	Duplicate	T	Solid	6010B	280-94656
280-22245-1MS	Matrix Spike	T	Solid	6010B	280-94656
280-22245-2	J1CYL9	T	Solid	6010B	280-94656
280-22245-3	J1CYM0	T	Solid	6010B	280-94656
280-22245-4	J1CYM1	T	Solid	6010B	280-94656
280-22245-5	J1CYM2	T	Solid	6010B	280-94656
280-22245-6	J1CYM3	T	Solid	6010B	280-94656
280-22245-7	J1CYM4	T	Solid	6010B	280-94656
280-22245-8	J1CYM5	T	Solid	6010B	280-94656
280-22245-9	J1CYM6	T	Solid	6010B	280-94656
280-22245-10	J1CYM7	T	Solid	6010B	280-94656
280-22245-11	J1CYM8	T	Solid	6010B	280-94656
280-22245-12	J1CYM9	T	Solid	6010B	280-94656
280-22245-13FD	J1CYN0	T	Solid	6010B	280-94656
280-22245-14EB	J1CYN2	T	Solid	6010B	280-94656

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-95916					
LCS 280-94656/2-A	Lab Control Sample	T	Solid	6010B	280-94656
MB 280-94656/1-A	Method Blank	T	Solid	6010B	280-94656
280-22245-1	J1CYL8	T	Solid	6010B	280-94656
280-22245-1DU	Duplicate	T	Solid	6010B	280-94656
280-22245-1MS	Matrix Spike	T	Solid	6010B	280-94656
280-22245-2	J1CYL9	T	Solid	6010B	280-94656
280-22245-3	J1CYM0	T	Solid	6010B	280-94656
280-22245-4	J1CYM1	T	Solid	6010B	280-94656
280-22245-5	J1CYM2	T	Solid	6010B	280-94656
280-22245-6	J1CYM3	T	Solid	6010B	280-94656
280-22245-7	J1CYM4	T	Solid	6010B	280-94656
280-22245-8	J1CYM5	T	Solid	6010B	280-94656
280-22245-9	J1CYM6	T	Solid	6010B	280-94656
280-22245-10	J1CYM7	T	Solid	6010B	280-94656
280-22245-11	J1CYM8	T	Solid	6010B	280-94656
280-22245-12	J1CYM9	T	Solid	6010B	280-94656
280-22245-13FD	J1CYN0	T	Solid	6010B	280-94656
280-22245-14EB	J1CYN2	T	Solid	6010B	280-94656

Report Basis
T = Total

General Chemistry

Analysis Batch:280-94226				
280-22245-1	J1CYL8	T	Solid	D-2216
280-22245-1DU	Duplicate	T	Solid	D-2216
280-22245-2	J1CYL9	T	Solid	D-2216
280-22245-3	J1CYM0	T	Solid	D-2216
280-22245-4	J1CYM1	T	Solid	D-2216
280-22245-5	J1CYM2	T	Solid	D-2216
280-22245-6	J1CYM3	T	Solid	D-2216
280-22245-7	J1CYM4	T	Solid	D-2216
280-22245-8	J1CYM5	T	Solid	D-2216
280-22245-9	J1CYM6	T	Solid	D-2216
280-22245-10	J1CYM7	T	Solid	D-2216
280-22245-11	J1CYM8	T	Solid	D-2216
280-22245-12	J1CYM9	T	Solid	D-2216
280-22245-13FD	J1CYN0	T	Solid	D-2216
280-22245-14EB	J1CYN2	T	Solid	D-2216

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 280-94242					
LCS 280-94242/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-94242/1-A	Method Blank	T	Solid	3550C	
280-22245-1	J1CYL8	T	Solid	3550C	
280-22245-2	J1CYL9	T	Solid	3550C	
280-22245-2MS	Matrix Spike	T	Solid	3550C	
280-22245-2MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-22245-3	J1CYM0	T	Solid	3550C	
280-22245-4	J1CYM1	T	Solid	3550C	
280-22245-5	J1CYM2	T	Solid	3550C	
280-22245-6	J1CYM3	T	Solid	3550C	
280-22245-7	J1CYM4	T	Solid	3550C	
280-22245-8	J1CYM5	T	Solid	3550C	
280-22245-9	J1CYM6	T	Solid	3550C	
280-22245-10	J1CYM7	T	Solid	3550C	
280-22245-11	J1CYM8	T	Solid	3550C	
280-22245-12	J1CYM9	T	Solid	3550C	
280-22245-13FD	J1CYN0	T	Solid	3550C	
Analysis Batch:280-94628					
LCS 280-94242/2-A	Lab Control Sample	T	Solid	8310	280-94242
MB 280-94242/1-A	Method Blank	T	Solid	8310	280-94242
280-22245-1	J1CYL8	T	Solid	8310	280-94242
280-22245-2	J1CYL9	T	Solid	8310	280-94242
280-22245-2MS	Matrix Spike	T	Solid	8310	280-94242
280-22245-2MSD	Matrix Spike Duplicate	T	Solid	8310	280-94242
280-22245-3	J1CYM0	T	Solid	8310	280-94242
280-22245-4	J1CYM1	T	Solid	8310	280-94242
280-22245-5	J1CYM2	T	Solid	8310	280-94242
280-22245-6	J1CYM3	T	Solid	8310	280-94242
280-22245-7	J1CYM4	T	Solid	8310	280-94242
280-22245-8	J1CYM5	T	Solid	8310	280-94242
280-22245-9	J1CYM6	T	Solid	8310	280-94242
280-22245-10	J1CYM7	T	Solid	8310	280-94242
280-22245-11	J1CYM8	T	Solid	8310	280-94242
280-22245-12	J1CYM9	T	Solid	8310	280-94242
280-22245-13FD	J1CYN0	T	Solid	8310	280-94242

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Method Blank - Batch: 280-94230

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-94230/1-A	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-94230	Lab File ID:	D6993.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.8 g
Analysis Date:	11/12/2011 1444	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			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	79.4	J	43	310
4-Bromophenyl phenyl ether	18	U	18	310
Butyl benzyl phthalate	41	U	41	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	25	U	25	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: 280-22245-1
Sdg Number: J01313

Method Blank - Batch: 280-94230

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-94230/1-A	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-94230	Lab File ID:	D6993.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.8 g
Analysis Date:	11/12/2011 1444	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			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	92	U	92	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	80	50 - 120
2-Fluorophenol	83	53 - 120
Nitrobenzene-d5	85	50 - 120
Phenol-d5	84	52 - 120
Terphenyl-d14	101	55 - 120
2,4,6-Tribromophenol	83	51 - 120

Method Blank TICs- Batch: 280-94230

Cas Number	Analyte	RT	Est. Result	Qual
	Unknown	2.65	3510	N J

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Lab Control Sample - Batch: 280-94230

Method: 8270C
Preparation: 3550C

Lab Sample ID:	LCS 280-94230/2-A	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-94230	Lab File ID:	D6987.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.3 g
Analysis Date:	11/12/2011 1300	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	2480	2000	81	52 - 120	
Acenaphthylene	2480	2110	85	53 - 120	
Anthracene	2480	2270	92	57 - 120	
Benzo[a]anthracene	2480	2210	89	55 - 120	
Benzo[a]pyrene	2480	1970	80	54 - 120	
Benzo[b]fluoranthene	2480	2230	90	52 - 120	
Benzo[ghi]perylene	2480	2310	93	50 - 120	
Benzo[k]fluoranthene	2480	2130	86	54 - 120	
Bis(2-chloroethoxy)methane	2480	1950	79	49 - 120	
Bis(2-chloroethyl)ether	2480	1870	75	48 - 120	
bis (2-chloroisopropyl) ether	2480	2070	84	47 - 120	
Bis(2-ethylhexyl) phthalate	2480	2120	86	51 - 120	
4-Bromophenyl phenyl ether	2480	2250	91	53 - 120	
Butyl benzyl phthalate	2480	2230	90	49 - 120	
Carbazole	2480	2260	91	54 - 120	
4-Chloroaniline	2480	1390	56	28 - 120	
4-Chloro-3-methylphenol	2480	2140	86	57 - 120	
2-Chloronaphthalene	2480	1990	81	53 - 120	
2-Chlorophenol	2480	2070	84	53 - 120	
4-Chlorophenyl phenyl ether	2480	2220	90	55 - 120	
Chrysene	2480	2220	90	55 - 120	
Dibenz(a,h)anthracene	2480	2250	91	55 - 120	
Dibenzofuran	2480	2100	85	56 - 120	
1,2-Dichlorobenzene	2480	1910	77	48 - 120	
1,3-Dichlorobenzene	2480	1900	77	46 - 120	
1,4-Dichlorobenzene	2480	1920	78	46 - 120	
3,3'-Dichlorobenzidine	2480	1690	68	34 - 120	
2,4-Dichlorophenol	2480	2080	84	53 - 120	
Diethyl phthalate	2480	2290	93	57 - 120	
2,4-Dimethylphenol	2480	2040	82	53 - 120	
Dimethyl phthalate	2480	2280	92	57 - 120	
Di-n-butyl phthalate	2480	2360	95	57 - 120	
4,6-Dinitro-2-methylphenol	2480	2250	91	30 - 120	
2,4-Dinitrophenol	2480	2030	82	15 - 120	
2,4-Dinitrotoluene	2480	2300	93	53 - 120	
2,6-Dinitrotoluene	2480	2270	92	53 - 120	
Di-n-octyl phthalate	2480	2220	89	54 - 120	
Fluoranthene	2480	2420	98	55 - 120	
Fluorene	2480	2230	90	55 - 120	
Hexachlorobenzene	2480	2250	91	51 - 120	
Hexachlorobutadiene	2480	2140	86	48 - 120	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Lab Control Sample - Batch: 280-94230

Method: 8270C
Preparation: 3550C

Lab Sample ID:	LCS 280-94230/2-A	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-94230	Lab File ID:	D6987.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.3 g
Analysis Date:	11/12/2011 1300	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Hexachlorocyclopentadiene	2480	2120	85	35 - 120	
Hexachloroethane	2480	2000	81	46 - 120	
Indeno[1,2,3-cd]pyrene	2480	2190	89	54 - 120	
Isophorone	2480	2070	84	46 - 120	
2-Methylnaphthalene	2480	1980	80	55 - 120	
2-Methylphenol	2480	2020	81	51 - 120	
3 & 4 Methylphenol	4950	4320	87	53 - 120	
Naphthalene	2480	2010	81	50 - 120	
2-Nitroaniline	2480	2380	96	50 - 120	
3-Nitroaniline	2480	1870	75	35 - 120	
4-Nitroaniline	2480	2240	90	44 - 120	
Nitrobenzene	2480	2110	85	49 - 120	
2-Nitrophenol	2480	2080	84	53 - 120	
4-Nitrophenol	2480	2560	103	41 - 120	
N-Nitrosodi-n-propylamine	2480	2280	92	51 - 120	
N-Nitrosodiphenylamine	2110	1750	83	55 - 120	
Pentachlorophenol	2480	1910	77	30 - 120	
Phenanthrene	2480	2270	91	58 - 120	
Phenol	2480	2170	88	54 - 120	
Pyrene	2480	2150	87	50 - 120	
1,2,4-Trichlorobenzene	2480	2030	82	50 - 120	
2,4,5-Trichlorophenol	2480	2250	91	56 - 120	
2,4,6-Trichlorophenol	2480	2190	88	50 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	84	50 - 120
2-Fluorophenol	88	53 - 120
Nitrobenzene-d5	86	50 - 120
Phenol-d5	88	52 - 120
Terphenyl-d14	92	55 - 120
2,4,6-Tribromophenol	98	51 - 120

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-94230

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-22245-1	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-94230	Lab File ID:	D6988.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	11/12/2011 1320			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-22245-1	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-94230	Lab File ID:	D6989.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.5 g
Analysis Date:	11/12/2011 1339			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	75	77	52 - 120	4	30		
Acenaphthylene	79	81	53 - 120	6	30		
Anthracene	89	83	57 - 120	14	30		
Benzo[a]anthracene	84	79	55 - 120	12	30		
Benzo[a]pyrene	69	64	54 - 120	14	30		
Benzo[b]fluoranthene	86	69	52 - 120	27	44		
Benzo[ghi]perylene	85	77	50 - 120	17	31		
Benzo[k]fluoranthene	76	79	54 - 120	4	30		
Bis(2-chloroethoxy)methane	70	69	49 - 120	9	30		
Bis(2-chloroethyl)ether	71	70	48 - 120	8	30		
bis (2-chloroisopropyl) ether	76	73	47 - 120	11	30		
Bis(2-ethylhexyl) phthalate	83	79	51 - 120	11	30		
4-Bromophenyl phenyl ether	85	80	53 - 120	13	30		
Butyl benzyl phthalate	90	86	49 - 120	13	30		
Carbazole	86	81	54 - 120	13	30		
4-Chloroaniline	65	63	28 - 120	10	30		
4-Chloro-3-methylphenol	87	85	57 - 120	10	30		
2-Chloronaphthalene	74	75	53 - 120	6	30		
2-Chlorophenol	79	74	53 - 120	13	30		
4-Chlorophenyl phenyl ether	85	86	55 - 120	6	30		
Chrysene	84	77	55 - 120	14	35		
Dibenz(a,h)anthracene	85	78	55 - 120	16	30		
Dibenzofuran	80	79	56 - 120	9	30		
1,2-Dichlorobenzene	73	70	48 - 120	12	30		
1,3-Dichlorobenzene	71	67	46 - 120	13	32		
1,4-Dichlorobenzene	71	68	46 - 120	11	30		
3,3'-Dichlorobenzidine	75	70	34 - 120	15	30		
2,4-Dichlorophenol	81	80	53 - 120	9	30		
Diethyl phthalate	86	87	57 - 120	6	30		
2,4-Dimethylphenol	79	80	53 - 120	6	30		
Dimethyl phthalate	85	84	57 - 120	9	30		
Di-n-butyl phthalate	92	85	57 - 120	15	30		

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-94230

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-22245-1	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-94230	Lab File ID:	D6988.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	11/12/2011 1320			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-22245-1	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-94230	Lab File ID:	D6989.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.5 g
Analysis Date:	11/12/2011 1339			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4,6-Dinitro-2-methylphenol	84	80	30 - 120	12	30		
2,4-Dinitrophenol	78	77	15 - 120	9	34		
2,4-Dinitrotoluene	88	86	53 - 120	9	30		
2,6-Dinitrotoluene	84	80	53 - 120	13	30		
Di-n-octyl phthalate	90	86	54 - 120	12	30		
Fluoranthene	88	79	55 - 120	16	30		
Fluorene	83	81	55 - 120	10	30		
Hexachlorobenzene	83	79	51 - 120	13	30		
Hexachlorobutadiene	76	76	48 - 120	8	30		
Hexachlorocyclopentadiene	55	53	35 - 120	11	30		
Hexachloroethane	73	69	46 - 120	13	30		
Indeno[1,2,3-cd]pyrene	84	78	54 - 120	15	30		
Isophorone	74	75	46 - 120	6	30		
2-Methylnaphthalene	72	71	55 - 120	9	30		
2-Methylphenol	77	71	51 - 120	15	30		
3 & 4 Methylphenol	84	81	53 - 120	11	30		
Naphthalene	72	71	50 - 120	9	30		
2-Nitroaniline	91	91	50 - 120	7	30		
3-Nitroaniline	81	83	35 - 120	5	30		
4-Nitroaniline	87	82	44 - 120	13	30		
Nitrobenzene	77	74	49 - 120	12	30		
2-Nitrophenol	76	77	53 - 120	6	30		
4-Nitrophenol	97	93	41 - 120	12	30		
N-Nitrosodi-n-propylamine	85	82	51 - 120	11	30		
N-Nitrosodiphenylamine	80	75	55 - 120	14	36		
Pentachlorophenol	72	66	30 - 120	17	30		
Phenanthrene	86	80	58 - 120	14	30		
Phenol	81	76	54 - 120	13	30		
Pyrene	78	74	50 - 120	12	38		
1,2,4-Trichlorobenzene	71	73	50 - 120	4	30		
2,4,5-Trichlorophenol	89	89	56 - 120	7	30		
2,4,6-Trichlorophenol	82	84	50 - 120	6	30		

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-94230

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-22245-1	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-94230	Lab File ID:	D6988.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	11/12/2011 1320			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-22245-1	Analysis Batch:	280-96135	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-94230	Lab File ID:	D6989.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.5 g
Analysis Date:	11/12/2011 1339			Final Weight/Volume:	1000 uL
Prep Date:	11/01/2011 1908			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl	74	76	50 - 120
2-Fluorophenol	81	77	53 - 120
Nitrobenzene-d5	78	75	50 - 120
Phenol-d5	81	78	52 - 120
Terphenyl-d14	89	85	55 - 120
2,4,6-Tribromophenol	92	92	51 - 120

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Method Blank - Batch: 280-94235

Method: 8081A
Preparation: 3550C

Lab Sample ID:	MB 280-94235/1-A	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Client Matrix:	Solid	Prep Batch:	280-94235	Lab File ID:	054F5201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.6 g
Analysis Date:	11/09/2011 0154	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	11/01/2011 1750			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.54	U	0.54	1.7
4,4'-DDE	0.23	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	Acceptance Limits
Tetrachloro-m-xylene	80	59 - 115
Decachlorobiphenyl	108	63 - 124

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Lab Control Sample - Batch: 280-94235

Method: 8081A
Preparation: 3550C

Lab Sample ID:	LCS 280-94235/2-A	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Client Matrix:	Solid	Prep Batch:	280-94235	Lab File ID:	045F4301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.8 g
Analysis Date:	11/08/2011 2313	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	11/01/2011 1750			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	16.2	12.1	75	57 - 118	
4,4'-DDE	16.2	12.3	76	61 - 115	
4,4'-DDT	16.2	11.6	72	53 - 125	
Aldrin	16.2	14.7	91	60 - 115	
alpha-BHC	16.2	14.5	89	54 - 115	
beta-BHC	16.2	14.5	90	58 - 115	
delta-BHC	16.2	14.5	89	62 - 115	
gamma-BHC (Lindane)	16.2	14.2	87	59 - 115	
Heptachlor	16.2	15.1	93	61 - 115	
Heptachlor epoxide	16.2	14.6	90	62 - 112	
Endosulfan I	16.2	14.5	89	55 - 115	
Endosulfan II	16.2	16.4	101	60 - 115	
Endosulfan sulfate	16.2	16.0	98	58 - 118	
Endrin	16.2	16.9	104	61 - 121	
Endrin aldehyde	16.2	15.1	93	54 - 115	
Endrin ketone	16.2	14.6	90	61 - 118	
gamma-Chlordane	16.2	14.1	87	60 - 115	
Methoxychlor	16.2	14.6	90	52 - 123	
alpha-Chlordane	16.2	14.1	87	60 - 115	
Dieldrin	16.2	15.4	95	63 - 117	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	81	59 - 115
Decachlorobiphenyl	103	63 - 124

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-94235

Method: 8081A
Preparation: 3550C

MS Lab Sample ID:	280-22245-4	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Client Matrix:	Solid	Prep Batch:	280-94235	Lab File ID:	060F5801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.2 g
Analysis Date:	11/09/2011 0341			Final Weight/Volume:	10000 uL
Prep Date:	11/01/2011 1750			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-22245-4	Analysis Batch:	280-95442	Instrument ID:	GCS_P1
Client Matrix:	Solid	Prep Batch:	280-94235	Lab File ID:	061F5901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.8 g
Analysis Date:	11/09/2011 0359			Final Weight/Volume:	10000 uL
Prep Date:	11/01/2011 1750			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	67	69	57 - 118	4	20		
4,4'-DDE	65	70	61 - 115	7	15		
4,4'-DDT	61	62	53 - 125	4	29		
Aldrin	85	82	60 - 115	2	50		
alpha-BHC	81	81	54 - 115	0	17		
beta-BHC	80	84	58 - 115	7	17		
delta-BHC	86	87	62 - 115	2	19		
gamma-BHC (Lindane)	82	80	59 - 115	1	24		
Heptachlor	93	93	61 - 115	2	18		
Heptachlor epoxide	82	81	62 - 112	0	18		
Endosulfan I	80	79	55 - 115	1	26		
Endosulfan II	92	93	60 - 115	2	20		
Endosulfan sulfate	87	88	58 - 118	2	22		
Endrin	94	94	61 - 121	0	30		
Endrin aldehyde	85	84	54 - 115	1	29		
Endrin ketone	82	83	61 - 118	3	20		
gamma-Chlordane	79	78	60 - 115	0	21		
Methoxychlor	80	83	52 - 123	4	23		
alpha-Chlordane	79	79	60 - 115	1	18		
Dieldrin	85	82	63 - 117	2	25		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	72	77	59 - 115
Decachlorobiphenyl	92	90	63 - 124

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Method Blank - Batch: 280-94241

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-94241/1-A	Analysis Batch:	280-94547	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-94241	Lab File ID:	013F1301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.1 g
Analysis Date:	11/02/2011 1427	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	11/01/2011 1640			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	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	Acceptance Limits
Decachlorobiphenyl	96	59 - 130
Tetrachloro-m-xylene	97	53 - 128

Lab Control Sample - Batch: 280-94241

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-94241/2-A	Analysis Batch:	280-94547	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-94241	Lab File ID:	015F1501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	11/02/2011 1509	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	11/01/2011 1640			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	33.3	29.4	88	54 - 132	
Aroclor 1260	33.3	32.2	97	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	94	59 - 130
Tetrachloro-m-xylene	95	53 - 128

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-94241

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-22245-12	Analysis Batch:	280-94547	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-94241	Lab File ID:	029F2901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	11/02/2011 2009			Final Weight/Volume:	5000 uL
Prep Date:	11/01/2011 1640			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-22245-12	Analysis Batch:	280-94547	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-94241	Lab File ID:	030F3001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.5 g
Analysis Date:	11/02/2011 2030			Final Weight/Volume:	5000 uL
Prep Date:	11/01/2011 1640			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aroclor 1016	101	91	54 - 132	12	26		
Aroclor 1260	102	100	62 - 129	4	26		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	92	91	59 - 130
Tetrachloro-m-xylene	99	94	53 - 128

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Method Blank - Batch: 280-94242

Method: 8310
Preparation: 3550C

Lab Sample ID:	MB 280-94242/1-A	Analysis Batch:	280-94628	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-94242	Lab File ID:	G1103008.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.4 g
Analysis Date:	11/03/2011 1619	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	11/01/2011 2128			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Acenaphthene	9.3	U	9.3	93
Acenaphthylene	8.3	U	8.3	93
Anthracene	2.8	U	2.8	19
Benzo[a]anthracene	3.0	U	3.0	14
Benzo[a]pyrene	5.9	U	5.9	14
Benzo[b]fluoranthene	3.9	U	3.9	14
Benzo[g,h,i]perylene	6.7	U	6.7	28
Benzo[k]fluoranthene	3.6	U	3.6	14
Chrysene	4.5	U	4.5	37
Dibenzo(a,h)anthracene	10	U	10	28
Fluoranthene	12	U	12	37
Fluorene	4.9	U	4.9	28
Indeno[1,2,3-cd]pyrene	11	U	11	28
Naphthalene	11	U	11	93
Phenanthrene	11	U	11	37
Pyrene	11	U	11	37

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

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Lab Control Sample - Batch: 280-94242

Method: 8310
Preparation: 3550C

Lab Sample ID:	LCS 280-94242/2-A	Analysis Batch:	280-94628	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-94242	Lab File ID:	G1103009.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.2 g
Analysis Date:	11/03/2011 1649	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	11/01/2011 2128			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1920	2010	104	78 - 116	
Acenaphthylene	1920	1840	96	76 - 115	
Anthracene	1920	1860	97	74 - 115	
Benzo[a]anthracene	1920	2030	106	85 - 120	
Benzo[a]pyrene	1920	1960	102	74 - 121	
Benzo[b]fluoranthene	1920	2050	107	85 - 115	
Benzo[g,h,i]perylene	1920	2060	107	85 - 120	
Benzo[k]fluoranthene	1920	1960	102	85 - 115	
Chrysene	1920	1940	101	83 - 115	
Dibenzo(a,h)anthracene	1920	2000	104	83 - 115	
Fluoranthene	1920	1980	103	83 - 115	
Fluorene	1920	1890	98	80 - 115	
Indeno[1,2,3-cd]pyrene	1920	2050	106	85 - 123	
Naphthalene	1920	1860	97	80 - 121	
Phenanthrene	1920	1930	100	80 - 115	
Pyrene	1920	1940	101	75 - 116	

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

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-94242

Method: 8310
Preparation: 3550C

MS Lab Sample ID:	280-22245-2	Analysis Batch:	280-94628	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-94242	Lab File ID:	G1103012.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.0 g
Analysis Date:	11/03/2011 1821			Final Weight/Volume:	4000 uL
Prep Date:	11/01/2011 2128			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-22245-2	Analysis Batch:	280-94628	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-94242	Lab File ID:	G1103013.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.9 g
Analysis Date:	11/03/2011 1851			Final Weight/Volume:	4000 uL
Prep Date:	11/01/2011 2128			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	98	132	78 - 116	29	20		N *
Acenaphthylene	90	85	76 - 115	5	21		
Anthracene	95	147	74 - 115	43	20		N *
Benzo[a]anthracene	105	185	85 - 120	56	20		N *
Benzo[a]pyrene	101	166	74 - 121	49	20		N *
Benzo[b]fluoranthene	108	163	85 - 115	41	20		N *
Benzo[g,h,i]perylene	106	134	85 - 120	23	20		N *
Benzo[k]fluoranthene	101	129	85 - 115	24	20		N *
Chrysene	100	159	83 - 115	45	20		N *
Dibenzo(a,h)anthracene	102	116	83 - 115	13	20		N
Fluoranthene	102	274	83 - 115	92	20		E N *
Fluorene	97	121	80 - 115	22	20		N *
Indeno[1,2,3-cd]pyrene	105	139	85 - 123	28	20		N *
Naphthalene	96	102	80 - 121	6	20		
Phenanthrene	99	241	80 - 115	84	20		N *
Pyrene	100	281	75 - 116	96	20		N *

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Terphenyl-d14 (SUR)	90	237 *	72 - 115

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Method Blank - Batch: 280-94656

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-94656/1-A	Analysis Batch:	280-95603	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-94656	Lab File ID:	25B7110911.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	11/10/2011 0926	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				
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
Calcium	14.1	U	14.1	50.0
Chromium	0.0610	B	0.058	0.20
Copper	0.22	U	0.22	1.0
Iron	5.44		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

Method Blank - Batch: 280-94656

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-94656/1-A	Analysis Batch:	280-95916	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-94656	Lab File ID:	25A6111011.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	11/11/2011 1001	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Cadmium	0.041	U	0.041	0.20
Cobalt	0.10	U	0.10	1.0

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Lab Control Sample - Batch: 280-94656

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-94656/2-A	Analysis Batch:	280-95603	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-94656	Lab File ID:	25B7110911.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	11/10/2011 0928	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	192.6	96	82 - 116	
Antimony	50.0	52.09	104	82 - 110	
Arsenic	100	102.9	103	85 - 110	
Barium	200	197.1	99	87 - 112	
Beryllium	5.00	4.90	98	84 - 114	
Boron	100	101.9	102	81 - 110	
Calcium	5000	4910	98	82 - 114	
Chromium	20.0	19.93	100	84 - 114	
Copper	25.0	25.04	100	88 - 110	
Iron	100	97.65	98	87 - 120	
Lead	50.0	50.63	101	86 - 110	
Magnesium	5000	4929	99	90 - 110	
Manganese	50.0	48.64	97	88 - 110	
Molybdenum	100	100.5	101	86 - 110	
Nickel	50.0	49.31	99	87 - 110	
Potassium	5000	4983	100	89 - 110	
Selenium	200	197.1	99	83 - 110	
Silicon	1000	163.7	16	10 - 70	
Silver	5.00	4.95	99	87 - 114	
Sodium	5000	5423	108	90 - 112	
Vanadium	50.0	48.72	97	88 - 110	
Zinc	50.0	48.02	96	76 - 114	

Lab Control Sample - Batch: 280-94656

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-94656/2-A	Analysis Batch:	280-95916	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-94656	Lab File ID:	25A6111011.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	11/11/2011 1004	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	10.0	10.04	100	87 - 110	
Cobalt	50.0	47.47	95	87 - 110	

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Matrix Spike - Batch: 280-94656

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-22245-1	Analysis Batch:	280-95603	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-94656	Lab File ID:	25B7110911.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	11/10/2011 0938	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	6790		241	7974	490	50 - 200	4
Antimony	0.79		60.3	41.77	68	20 - 200	
Arsenic	4.1		121	114.3	91	76 - 111	
Barium	80.8		241	294.0	88	52 - 159	
Beryllium	0.91		6.03	6.20	88	72 - 105	
Boron	1.2	U	121	107.1	89	75 - 107	
Calcium	5590		6030	12880	121	43 - 165	
Chromium	23.9		24.1	44.95	87	70 - 200	
Copper	25.4		30.2	48.96	78	37 - 187	
Iron	24600		121	25910	1117	70 - 200	4
Lead	25.5		60.3	69.55	73	70 - 200	
Magnesium	5040		6030	10680	94	64 - 145	
Manganese	348		60.3	400.8	87	40 - 200	4
Molybdenum	0.31	U	121	105.3	87	75 - 103	
Nickel	12.2		60.3	63.13	84	61 - 126	
Potassium	648		6030	6161	91	56 - 172	
Selenium	1.0	U	241	212.6	88	76 - 104	
Silicon	270		1210	521.0	21	20 - 200	
Silver	0.19	U	6.03	5.02	83	75 - 141	
Sodium	409		6030	6707	104	78 - 111	
Vanadium	65.8		60.3	128.9	105	50 - 169	
Zinc	126		60.3	153.9	46	70 - 200	N

Matrix Spike - Batch: 280-94656

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-22245-1	Analysis Batch:	280-95916	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-94656	Lab File ID:	25A6111011.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	11/11/2011 1014	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	0.79	12.1	11.81	91	40 - 130	
Cobalt	9.2	60.3	60.77	86	72 - 106	

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Duplicate - Batch: 280-94656

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-22245-1	Analysis Batch:	280-95603	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-94656	Lab File ID:	25B7110911.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.10 g
Analysis Date:	11/10/2011 0935	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	6790		6480	5	40	
Antimony	0.79		0.732	7	40	
Arsenic	4.1		4.22	4	30	
Barium	80.8		80.63	0.2	30	
Beryllium	0.91		0.983	7	30	
Boron	1.2	U	1.1	NC	30	U
Calcium	5590		5977	7	30	
Chromium	23.9		25.61	7	40	
Copper	25.4		22.30	13	30	
Iron	24600		26980	9	40	
Lead	25.5		21.01	19	40	
Magnesium	5040		5010	0.6	30	
Manganese	348		350.1	0.6	40	
Molybdenum	0.31	U	0.321	NC	30	B
Nickel	12.2		12.16	0.7	30	
Potassium	648		652.1	0.6	40	
Selenium	1.0	U	0.98	NC	30	U
Silicon	270		271.3	0.5	40	
Silver	0.19	U	0.18	NC	30	U
Sodium	409		326.6	22	30	
Vanadium	65.8		71.26	8	30	
Zinc	126		123.2	2	40	

Duplicate - Batch: 280-94656

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-22245-1	Analysis Batch:	280-95916	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-94656	Lab File ID:	25A6111011.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.10 g
Analysis Date:	11/11/2011 1011	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 1400				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Cadmium	0.79	0.821	3	30	
Cobalt	9.2	9.23	0.6	30	

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Method Blank - Batch: 280-94219

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-94219/1-A	Analysis Batch:	280-94736	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-94219	Lab File ID:	111103aa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.6 g
Analysis Date:	11/04/2011 0015	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	11/03/2011 1350				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-94219

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-94219/2-A	Analysis Batch:	280-94736	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-94219	Lab File ID:	111103aa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.6 g
Analysis Date:	11/04/2011 0017	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	11/03/2011 1350				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.460	110	87 - 111	

Matrix Spike - Batch: 280-94219

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-22245-1	Analysis Batch:	280-94736	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-94219	Lab File ID:	111103aa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.64 g
Analysis Date:	11/03/2011 2203	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	11/03/2011 1350				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.26	0.490	0.853	121	87 - 111	N

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Duplicate - Batch: 280-94219

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-22245-1	Analysis Batch:	280-94736	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-94219	Lab File ID:	111103aa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.65 g
Analysis Date:	11/03/2011 2207	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	11/03/2011 1350				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.26	0.305	16	20	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-22245-1
Sdg Number: J01313

Duplicate - Batch: 280-94226

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-22245-1	Analysis Batch:	280-94226	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:	11/01/2011 1327	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	20.3	17.2	17	20	

2.6, 4.9 IR2 ND 11/1

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-191	Page 1 of ~~2~~ 3

Collector Q Stowe	Company Contact D Woolery	Telephone No. 509-431-0448	Project Coordinator KESSNER, JH
Price Code ~~8L~~ 8C 10-27-11	Data Turnaround ~~21~~ 15 Days 10/30-11 10-27-11		
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location 100-D-8 Outfall (Below OHWM)		SAF No. RC-075
Ice Chest No. ERC-99-061	Field Logbook No. EL-1662	COA R100D82000	Method of Shipment FED EX 10-27-11
Shipped To 10-27-11 TestAmerica Incorporated, ~~Richland~~ DVR	Offsite Property No. A100893		Bill of Lading/Air Bill No. See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	Cool 4C	Cool 4C 10-27-11	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None	None
Type of Container	G/P	G/P	aG	aG	aG	aG	G/P	G/P	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	0	0	0
Volume 10-27-11	~~60mL~~ 125mL	~~60mL~~ 125mL	125mL	125mL	120mL	125mL	500mL	500mL	500mL	500mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	Semi-VOA - 8270A (TCL)	PAHs - 8310	PCBs - 8082	Pesticides - 8081	See item (2) in Special Instructions.	Carbon-14; Tritium - H3	Nickel-63; Strontium-89,90 -- Total Sr	Isotopic Plutonium

Sample No.	Matrix *	Sample Date	Sample Time										
J1CYL8	SOIL	10-30-11	1430	X		X	X	X	X				
J1CYL9	SOIL	10-30-11	1435	X		X	X	X	X				
J1CYM0	SOIL	10-30-11	1440	X		X	X	X	X				
J1CYM1	SOIL	10-30-11	1415	X		X	X	X	X				
J1CYM2	SOIL	10-30-11	1420	X		X	X	X	X				

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	10/30/11 1550	DWOOLERY	10-30-11 1550
DWOOLERY	10-30-11 1830	1060 BATTLE #1A	10-30-11 1830
WCH A. Freier 1060 #1	Date/Time 0935 10-31-11	Fed Ex	
			11/1/11 0900

SPECIAL INSTRUCTIONS

None

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

(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

SDG J01313

Custodian unavailable to remove samples from controlled storage. Shipper removed samples from storage location taking custody of samples for shipment to lab.

REVIEWED BY PWshea DATE 10/31/11

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

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

WCH-EE-011

D 10-27-11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-191	Page 2 of ~~2~~ 3

Collector Q Stowe	Company Contact D Woolery	Telephone No. 509-431-0448	Project Coordinator KESSNER, JH
Price Code ~~8L~~ 8C D 10-27-11	Data Turnaround ~~21~~ 15 Days D 10-27-11		
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location 100-D-8 Outfall (Below OHWM)		SAF No. RC-075
Ice Chest No. ERC-99-061	Field Logbook No. EL-1662	COA R100D82000	Method of Shipment FED EX
Shipped To D 10-27-11 TestAmerica Incorporated, ~~Richland~~ DNR	Offsite Property No. ~~N/A~~ D 10-27-11 A100893		Bill of Lading/Air Bill No. , See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None	None
Type of Container	G/P	G/P	aG	aG	aG	aG	G/P	G/P	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	0	0	0
Volume D 10-27-11	~~60mL~~ 125mL	~~60mL~~ 125mL	125mL	125mL	120mL	125mL	500mL	500mL	500mL	500mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	Semi-VOA - 8270A (TCL)	PAHs - 8310	PCBs - 8082	Pesticides - 8081	See item (2) in Special Instructions.	Carbon-14; Tritium - H3	Nickel-63; Strontium-89,90 – Total Sr	Isotopic Plutonium

Sample No.	Matrix *	Sample Date	Sample Time										
J1CYM3	SOIL	10-30-11	1425	1425	X		X	X	X	X			
J1CYM4	SOIL	10-30-11	1400	1400	X		X	X	X	X			
J1CYM5	SOIL	10-30-11	1405	1405	X		X	X	X	X			
J1CYM6	SOIL	10-30-11	1410	1410	X		X	X	X	X			
J1CYM7	SOIL	10-30-11	1345	1345	X		X	X	X	X			

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From Quincy Stowe	Date/Time 10/30/11 1550	Received By/Stored In DWOOLERY	Date/Time 10-30-11 1550
Relinquished By/Removed From DWOOLERY	Date/Time 10-30-11 1830	Received By/Stored In 1060 BATTELLE #1A	Date/Time 10-30-11 1830
Relinquished By/Removed From WCH 1060 #1 A. Freier	Date/Time 0935 10-31-11	Received By/Stored In Fed Ex	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time 11/1/11 0900
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

None

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

(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

SDG J01313

Custodian unavailable to remove samples from controlled storage. Shipper removed samples from storage location taking custody of samples for shipment to lab.

REVIEWED BY Dwshea DATE 10/31/11

Matrix *

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

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

WCH-EE-011

D 10-27-11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-191	Page 3 of ~~2~~ 3

Collector Q Stowe	Company Contact D Woolery	Telephone No. 509-431-0448	Project Coordinator KESSNER, JH
Price Code ~~8L~~ 8C D 10-27-11	Data Turnaround ~~21~~ 15 Days D 10-27-11		
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location 100-D-8 Outfall (Below OHWM)		SAF No. RC-075
Ice Chest No. ERC-99-061	Field Logbook No. EL-1662	COA R100D82000	Method of Shipment Fed Ex
Shipped To D 10-27-11 TestAmerica Incorporated, ~~Richland~~ DWR	Offsite Property No. A100893		Bill of Lading/Air Bill No. See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None	None
Type of Container	G/P	G/P	aG	aG	aG	aG	G/P	G/P	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	0	0	0
Volume D 10-27-11	~~60mL~~ 125ml	~~60mL~~ 125ml	125mL	125mL	120mL	125mL	500mL	500mL	500mL	500mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	Semi-VOA - 8270A (TCL)	PAHs - 8310	PCBs - 8082	Pesticides - 8081	See item (2) in Special Instructions.	Carbon-14; Tritium - H3	Nickel-63; Strontium-89,90 -- Total Sr	Isotopic Plutonium

D 10-27-11

Sample No.	Matrix *	Sample Date	Sample Time										
J1CYM8	SOIL	10-30-11	1350	X		X	X	X	X				
J1CYM9	SOIL	10-30-11	1355	X		X	X	X	X				
J1CYN0	SOIL	10-30-11	1345	X		X	X	X	X				
~~J1CYN1~~ D 10-30-11	SOIL												
J1CYN2	SOIL	10-30-11	1310	X		X							

D SW BB

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: Quincy Stowe	10/30/11 1550	Received By/Stored In: D Woolery	10-30-11 1550
Relinquished By/Removed From: D Woolery	10-30-11 1830	Received By/Stored In: 1060 BATTELLE #1A	10-30-11 1830
Relinquished By/Removed From: WCH #1060 A. Freier	Date/Time 0935 10-31-11	Received By/Stored In: Fed Ex	
Relinquished By/Removed From		Received By/Stored In:	11/1/11 0400
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	

SPECIAL INSTRUCTIONS

None

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

(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

SDG J01313

Custodian unavailable to remove samples from controlled storage. Shipper removed samples from storage location taking custody of samples for shipment to lab.

REVIEWED BY DWSkea DATE 10/31/11

Matrix *

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

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

WCH-EE-011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 -601052 -501.2

Analytical Due:

Report Due: 11/16/11 (Rush 11 Day TAT)

Sample Check-in List

Date/Time Received: 11/1/11 0900 GM Screen Result 12 microR/hr

Client: Washington Closure Hanford SDG #: J01313 NA[ ] SAF #: RC-075 NA [ ]

Job Number: 222425 Chain of Custody # RC-075-191

Shipping Container ID: TRM-052, ERL-99-061 Air Bill # 7953 5343 6589, 6448

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature °C: 2.6, 4.9 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 14
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ✓ Tape
   - ✓ Custody Seals
   - ✓ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - Broken
   - Leaking
   - Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [✓] pH<2 [ ] pH>2 [ ] pH>9 [ ] Amount HNO_3 Added
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers):

Sample Custodian: [signature] Date: 11/1/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager [signature] Date 11/1/11

From: (509) 376-7768
1162 SHIPPING DEPT
US DOE
2355 STEVENS DR

RICHLAND, WA 99354

Origin ID: PSCA

FedEx. Express

J112011080502 25

Ship Date: 31OCT11
ActWgt: 66.0 LB
CAD: 5851986/INET3210

Delivery Address Bar Code

SHIP TO: (303) 736-0190

BILL THIRD PARTY

KAE YODER
TEST AMERICA
4955 YARROW ST # A100892

ARVADA, CO 80002

Ref # R100D8 2000
Invoice #
PO #
Dept #

1 of 2

TUE - 01 NOV A1
PRIORITY OVERNIGHT

TRK# 7953 5343 6448
0201

MASTER

XH WHHA

80002
CO-US
DEN

50FG1/A013/F5F4

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2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Dept #

2 of 2

TUE - 01 NOV A1
PRIORITY OVERNIGHT

MPS# 7953 5343 6529
0263
Mstr# 7953 5343 6448 0201

XH WHHA

80002
CO-US
DEN

50FG1/A013/F5F4

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