0099985

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 10/4/11
INITIAL/DATE

COMMENTS:

SDG J01273 SAF RC-075

Rad only Chem only ☑ Rad & Chem

☑ Complete Partial

Waste Site: 118-D-2:1 Burial Ground - Overburden

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NOV 01 2011
EDMC

Analytical Data Package Prepared For

Washington Closure Hanford

RECEIVED
SEP 2011

Radiochemical Analysis By

TestAmerica

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

Assigned Laboratory Code: TARL

Data Package Contains 122 ***Pages***

Report No.: 48592

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.
J01273	RC-075	J1KV86	J1I120446-1	MMDGV1AA	9MMDGV10	1255176
		J1KV86	J1I120446-1	MMDGV1AD	9MMDGV10	1256121
		J1KV86	J1I120446-1	MMDGV1AH	9MMDGV10	1256122
		J1KV86	J1I120446-1	MMDGV1AG	9MMDGV10	1256123
		J1KV86	J1I120446-1	MMDGV1AE	9MMDGV10	1256124
		J1KV86	J1I120446-1	MMDGV1AJ	9MMDGV10	1256126
		J1KV86	J1I120446-1	MMDGV1AC	9MMDGV10	1256127
		J1KV86	J1I120446-1	MMDGV1AF	9MMDGV10	1256128
		J1KV87	J1I120446-2	MMDG01AA	9MMDG010	1255176
		J1KV87	J1I120446-2	MMDG01AD	9MMDG010	1256121
		J1KV87	J1I120446-2	MMDG01AH	9MMDG010	1256122
		J1KV87	J1I120446-2	MMDG01AG	9MMDG010	1256123
		J1KV87	J1I120446-2	MMDG01AE	9MMDG010	1256124
		J1KV87	J1I120446-2	MMDG01AJ	9MMDG010	1256126
		J1KV87	J1I120446-2	MMDG01AC	9MMDG010	1256127
		J1KV87	J1I120446-2	MMDG01AF	9MMDG010	1256128
		J1KV88	J1I120446-3	MMDG11AA	9MMDG110	1255176
		J1KV88	J1I120446-3	MMDG11AD	9MMDG110	1256121
		J1KV88	J1I120446-3	MMDG11AH	9MMDG110	1256122
		J1KV88	J1I120446-3	MMDG11AG	9MMDG110	1256123
		J1KV88	J1I120446-3	MMDG11AE	9MMDG110	1256124
		J1KV88	J1I120446-3	MMDG11AJ	9MMDG110	1256126
		J1KV88	J1I120446-3	MMDG11AC	9MMDG110	1256127
		J1KV88	J1I120446-3	MMDG11AF	9MMDG110	1256128
		J1KV89	J1I120446-4	MMDG21AA	9MMDG210	1255176
		J1KV89	J1I120446-4	MMDG21AD	9MMDG210	1256121

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SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
J01273	RC-075	J1KV89	J1I120446-4	MMDG21AH	9MMDG210	1256122
		J1KV89	J1I120446-4	MMDG21AG	9MMDG210	1256123
		J1KV89	J1I120446-4	MMDG21AE	9MMDG210	1256124
		J1KV89	J1I120446-4	MMDG21AJ	9MMDG210	1256126
		J1KV89	J1I120446-4	MMDG21AC	9MMDG210	1256127
		J1KV89	J1I120446-4	MMDG21AF	9MMDG210	1256128
		J1KV90	J1I120446-5	MMDG31AA	9MMDG310	1255176
		J1KV90	J1I120446-5	MMDG31AD	9MMDG310	1256121
		J1KV90	J1I120446-5	MMDG31AH	9MMDG310	1256122
		J1KV90	J1I120446-5	MMDG31AG	9MMDG310	1256123
		J1KV90	J1I120446-5	MMDG31AE	9MMDG310	1256124
		J1KV90	J1I120446-5	MMDG31AJ	9MMDG310	1256126
		J1KV90	J1I120446-5	MMDG31AC	9MMDG310	1256127
		J1KV90	J1I120446-5	MMDG31AF	9MMDG310	1256128
		J1KV91	J1I120446-6	MMDG41AA	9MMDG410	1255176
		J1KV91	J1I120446-6	MMDG41AD	9MMDG410	1256121
		J1KV91	J1I120446-6	MMDG41AH	9MMDG410	1256122
		J1KV91	J1I120446-6	MMDG41AG	9MMDG410	1256123
		J1KV91	J1I120446-6	MMDG41AE	9MMDG410	1256124
		J1KV91	J1I120446-6	MMDG41AJ	9MMDG410	1256126
		J1KV91	J1I120446-6	MMDG41AC	9MMDG410	1256127
		J1KV91	J1I120446-6	MMDG41AF	9MMDG410	1256128
		J1KV92	J1I120446-7	MMDG51AA	9MMDG510	1255176
		J1KV92	J1I120446-7	MMDG51AD	9MMDG510	1256121
		J1KV92	J1I120446-7	MMDG51AH	9MMDG510	1256122
		J1KV92	J1I120446-7	MMDG51AG	9MMDG510	1256123
		J1KV92	J1I120446-7	MMDG51AE	9MMDG510	1256124
		J1KV92	J1I120446-7	MMDG51AJ	9MMDG510	1256126
		J1KV92	J1I120446-7	MMDG51AC	9MMDG510	1256127
		J1KV92	J1I120446-7	MMDG51AF	9MMDG510	1256128
		J1KV93	J1I120446-8	MMDG61AA	9MMDG610	1255176
		J1KV93	J1I120446-8	MMDG61AD	9MMDG610	1256121
		J1KV93	J1I120446-8	MMDG61AH	9MMDG610	1256122
		J1KV93	J1I120446-8	MMDG61AG	9MMDG610	1256123
		J1KV93	J1I120446-8	MMDG61AE	9MMDG610	1256124
		J1KV93	J1I120446-8	MMDG61AJ	9MMDG610	1256126
		J1KV93	J1I120446-8	MMDG61AC	9MMDG610	1256127
		J1KV93	J1I120446-8	MMDG61AF	9MMDG610	1256128

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SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
J01273	RC-075	J1KV94	J1I120446-9	MMDG71AA	9MMDG710	1255176
		J1KV94	J1I120446-9	MMDG71AD	9MMDG710	1256121
		J1KV94	J1I120446-9	MMDG71AH	9MMDG710	1256122
		J1KV94	J1I120446-9	MMDG71AG	9MMDG710	1256123
		J1KV94	J1I120446-9	MMDG71AE	9MMDG710	1256124
		J1KV94	J1I120446-9	MMDG71AJ	9MMDG710	1256126
		J1KV94	J1I120446-9	MMDG71AC	9MMDG710	1256127
		J1KV94	J1I120446-9	MMDG71AF	9MMDG710	1256128
		J1KV95	J1I120446-10	MMDG81AA	9MMDG810	1255176
		J1KV95	J1I120446-10	MMDG81AD	9MMDG810	1256121
		J1KV95	J1I120446-10	MMDG81AH	9MMDG810	1256122
		J1KV95	J1I120446-10	MMDG81AG	9MMDG810	1256123
		J1KV95	J1I120446-10	MMDG81AE	9MMDG810	1256124
		J1KV95	J1I120446-10	MMDG81AJ	9MMDG810	1256126
		J1KV95	J1I120446-10	MMDG81AC	9MMDG810	1256127
		J1KV95	J1I120446-10	MMDG81AF	9MMDG810	1256128
	RC-075	J1KV96	J1I120446-11	MMDG91AA	9MMDG910	1255176
		J1KV96	J1I120446-11	MMDG91AD	9MMDG910	1256121
		J1KV96	J1I120446-11	MMDG91AH	9MMDG910	1256122
		J1KV96	J1I120446-11	MMDG91AG	9MMDG910	1256123
		J1KV96	J1I120446-11	MMDG91AE	9MMDG910	1256124
		J1KV96	J1I120446-11	MMDG91AJ	9MMDG910	1256126
		J1KV96	J1I120446-11	MMDG91AC	9MMDG910	1256127
		J1KV96	J1I120446-11	MMDG91AF	9MMDG910	1256128
		J1KV97	J1I120446-12	MMDHC1AA	9MMDHC10	1255176
		J1KV97	J1I120446-12	MMDHC1AD	9MMDHC10	1256121
		J1KV97	J1I120446-12	MMDHC1AH	9MMDHC10	1256122
		J1KV97	J1I120446-12	MMDHC1AG	9MMDHC10	1256123
		J1KV97	J1I120446-12	MMDHC1AE	9MMDHC10	1256124
		J1KV97	J1I120446-12	MMDHC1AJ	9MMDHC10	1256126
		J1KV97	J1I120446-12	MMDHC1AC	9MMDHC10	1256127
		J1KV97	J1I120446-12	MMDHC1AF	9MMDHC10	1256128
		J1KV98	J1I120446-13	MMDHD1AA	9MMDHD10	1255176
		J1KV98	J1I120446-13	MMDHD1AD	9MMDHD10	1256121
		J1KV98	J1I120446-13	MMDHD1AH	9MMDHD10	1256122
		J1KV98	J1I120446-13	MMDHD1AG	9MMDHD10	1256123
		J1KV98	J1I120446-13	MMDHD1AE	9MMDHD10	1256124
		J1KV98	J1I120446-13	MMDHD1AJ	9MMDHD10	1256126

Report No.: 48592

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SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
J01273	RC-075	J1KV98	J1I120446-13	MMDHD1AC	9MMDHD10	1256127
		J1KV98	J1I120446-13	MMDHD1AF	9MMDHD10	1256128

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Washington Hanford Closure
2620 Fermi Avenue
Richland, WA 99354

TestAmerica Laboratories, Inc.

September 29, 2011

Attention: Joan Kessner

SAF Number	:	RC-075
Date SDG Closed	:	September 12, 2011
Number of Samples	:	Thirteen (13)
Sample Type	:	Soil
SDG Number	:	J01273
Data Deliverable	:	21– Day / Summary

CASE NARRATIVE

I. Introduction

On September 12, 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
J1KV86	MMDGV	SOIL	9/12/11
J1KV87	MMDG0	SOIL	9/12/11
J1KV88	MMDG1	SOIL	9/12/11
J1KV89	MMDG2	SOIL	9/12/11
J1KV90	MMDG3	SOIL	9/12/11
J1KV91	MMDG4	SOIL	9/12/11
J1KV92	MMDG5	SOIL	9/12/11
J1KV93	MMDG6	SOIL	9/12/11
J1KV94	MMDG7	SOIL	9/12/11
J1KV95	MMDG8	SOIL	9/12/11
J1KV96	MMDG9	SOIL	9/12/11
J1KV97	MMDHC	SOIL	9/12/11
J1KV98	MMDHD	SOIL	9/12/11

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
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:
The LCS, batch blank, samples and sample duplicate (J1KV86) results are within contractual requirements.

Uranium 234, 235 and 238 by method RL-ALP-015:
The LCS, batch blank, samples and sample duplicate (J1KV87) results are within contractual requirements.

Gas Proportional Counting
Strontium-90 by method RL-GPC-003:
The LCS, batch blank, samples and sample duplicate (J1KV92) 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 (J1KV91) results are within contractual requirements.

Liquid Scintillation Counting

Tritium by method RL-LSC-005:

The LCS, batch blank, samples and sample duplicate (J1KV90) results are within contractual requirements.

Carbon-14 by method RL-LSC-008:

The LCS, batch blank, samples and sample duplicate (J1KV88) results are within contractual requirements.

Nickel-63 by method RL-LCS-017:

The LCS, batch blank, samples and sample duplicate (J1KV89) results are within contractual requirements.

Chemical Analysis

Hexavalent Chromium by EPA method 7196A

The LCS, batch blank, samples, sample duplicate (J1KV86) and sample matrix spike (J1KV86) results are within contractual requirements.

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

Reviewed and approved:

Rhonda Wagar
Project Manager

Drinking Water Method Cross References

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

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

Uncertainty Estimation

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

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

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

Report Definitions

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

Sample Results Summary

TestAmerica TARL

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

Date: 29-Sep-11

Report No. : 48592

SDG No: J01273

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1256128 PUISO_PLATE_AEA									
J1KV86									
	MMDGV1AF	PU-238	-4.32E-03 +- 5.8E-02	U	pCi/g	99%	1.30E-01	1.00E+00	
		PU239/40	2.73E-02 +- 5.8E-02	U	pCi/g	99%	1.08E-01	1.00E+00	
J1KV86 DUP									
	MMDGV1AM	PU-238	-1.90E-03 +- 7.6E-02	U	pCi/g	81%	1.42E-01	1.00E+00	-77.9
		PU239/40	3.41E-02 +- 7.6E-02	U	pCi/g	81%	1.58E-01	1.00E+00	21.9
J1KV87									
	MMDG01AF	PU-238	0.00E+00 +- 7.7E-02	U	pCi/g	82%	1.45E-01	1.00E+00	
		PU239/40	0.00E+00 +- 7.7E-02	U	pCi/g	82%	1.45E-01	1.00E+00	
J1KV88									
	MMDG11AF	PU-238	-4.28E-03 +- 5.7E-02	U	pCi/g	95%	1.29E-01	1.00E+00	
		PU239/40	2.71E-02 +- 5.7E-02	U	pCi/g	95%	1.07E-01	1.00E+00	
J1KV89									
	MMDG21AF	PU-238	0.00E+00 +- 6.6E-02	U	pCi/g	100%	1.23E-01	1.00E+00	
		PU239/40	3.11E-02 +- 6.6E-02	U	pCi/g	100%	1.23E-01	1.00E+00	
J1KV90									
	MMDG31AF	PU-238	-3.22E-03 +- 6.4E-02	U	pCi/g	90%	1.34E-01	1.00E+00	
		PU239/40	2.73E-02 +- 6.5E-02	U	pCi/g	90%	1.45E-01	1.00E+00	
J1KV91									
	MMDG41AF	PU-238	0.00E+00 +- 6.8E-02	U	pCi/g	100%	1.27E-01	1.00E+00	
		PU239/40	3.37E-02 +- 6.8E-02	U	pCi/g	100%	1.26E-01	1.00E+00	
J1KV92									
	MMDG51AF	PU-238	0.00E+00 +- 5.8E-02	U	pCi/g	100%	1.08E-01	1.00E+00	
		PU239/40	0.00E+00 +- 5.8E-02	U	pCi/g	100%	1.08E-01	1.00E+00	
J1KV93									
	MMDG61AF	PU-238	3.28E-02 +- 6.6E-02	U	pCi/g	88%	1.23E-01	1.00E+00	
		PU239/40	0.00E+00 +- 6.6E-02	U	pCi/g	88%	1.23E-01	1.00E+00	
J1KV94									
	MMDG71AF	PU-238	0.00E+00 +- 7.2E-02	U	pCi/g	100%	1.34E-01	1.00E+00	
		PU239/40	-1.79E-03 +- 7.2E-02	U	pCi/g	100%	1.34E-01	1.00E+00	
J1KV95									
	MMDG81AF	PU-238	0.00E+00 +- 7.7E-02	U	pCi/g	92%	1.43E-01	1.00E+00	
		PU239/40	3.82E-02 +- 7.7E-02	U	pCi/g	92%	1.43E-01	1.00E+00	
J1KV96									
	MMDG91AF	PU-238	-4.25E-03 +- 5.7E-02	U	pCi/g	100%	1.28E-01	1.00E+00	
		PU239/40	-1.42E-03 +- 5.7E-02	U	pCi/g	100%	1.06E-01	1.00E+00	
J1KV97									
	MMDHC1AF	PU-238	-1.81E-03 +- 7.2E-02	U	pCi/g	85%	1.36E-01	1.00E+00	

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Sample Results Summary

Date: 29-Sep-11

TestAmerica TARL

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

Report No. : 48592 **SDG No: J01273**

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1256128 PUISO_PLATE_AEA									
J1KV97									
	MMDHC1AF	PU239/40	-3.62E-03 +- 7.3E-02	U	pCi/g	85%	1.51E-01	1.00E+00	
J1KV98									
	MMDHD1AF	PU-238	0.00E+00 +- 6.3E-02	U	pCi/g	100%	1.18E-01	1.00E+00	
		PU239/40	0.00E+00 +- 6.3E-02	U	pCi/g	100%	1.18E-01	1.00E+00	
1256127 UISO_IE_PLATE_AEA									
J1KV86									
	MMDGV1AC	U-234	1.01E-01 +- 1.1E-01	U	pCi/g	85%	1.58E-01	1.00E+00	
		U-235	1.68E-02 +- 5.7E-02	U	pCi/g	85%	1.58E-01	1.00E+00	
		U-238	2.71E-01 +- 1.9E-01		pCi/g	85%	1.47E-01	1.00E+00	
J1KV87									
	MMDG01AC	U-234	1.31E-01 +- 1.7E-01	U	pCi/g	48%	2.55E-01	1.00E+00	
		U-235	-4.85E-03 +- 9.7E-02	U	pCi/g	48%	2.03E-01	1.00E+00	
		U-238	3.25E-01 +- 2.7E-01		pCi/g	48%	2.55E-01	1.00E+00	
J1KV87 DUP									
	MMDG01AK	U-234	1.40E-01 +- 2.0E-01	U	pCi/g	33%	2.63E-01	1.00E+00	6.8
		U-235	0.00E+00 +- 1.4E-01	U	pCi/g	33%	2.63E-01	1.00E+00	-200.0
		U-238	7.00E-02 +- 1.4E-01	U	pCi/g	33%	2.63E-01	1.00E+00	129.0
J1KV88									
	MMDG11AC	U-234	4.89E-01 +- 2.9E-01		pCi/g	63%	1.47E-01	1.00E+00	
		U-235	3.52E-02 +- 7.1E-02	U	pCi/g	63%	1.32E-01	1.00E+00	
		U-238	1.39E-01 +- 1.4E-01	U	pCi/g	63%	1.32E-01	1.00E+00	
J1KV89									
	MMDG21AC	U-234	2.44E-01 +- 2.3E-01		pCi/g	50%	1.84E-01	1.00E+00	
		U-235	-4.88E-03 +- 9.9E-02	U	pCi/g	50%	2.06E-01	1.00E+00	
		U-238	3.92E-01 +- 3.0E-01		pCi/g	50%	1.84E-01	1.00E+00	
J1KV90									
	MMDG31AC	U-234	2.48E-01 +- 1.7E-01		pCi/g	79%	1.03E-01	1.00E+00	
		U-235	0.00E+00 +- 5.5E-02	U	pCi/g	79%	1.03E-01	1.00E+00	
		U-238	3.25E-01 +- 2.0E-01		pCi/g	79%	1.32E-01	1.00E+00	
J1KV91									
	MMDG41AC	U-234	1.82E-01 +- 1.6E-01		pCi/g	74%	1.40E-01	1.00E+00	
		U-235	3.11E-02 +- 6.3E-02	U	pCi/g	74%	1.16E-01	1.00E+00	
		U-238	5.90E-02 +- 8.9E-02	U	pCi/g	74%	1.30E-01	1.00E+00	
J1KV92									
	MMDG51AC	U-234	8.27E-02 +- 1.8E-01	U	pCi/g	27%	3.62E-01	1.00E+00	
		U-235	-5.40E-03 +- 1.8E-01	U	pCi/g	27%	3.46E-01	1.00E+00	
		U-238	8.45E-02 +- 1.8E-01	U	pCi/g	27%	3.46E-01	1.00E+00	

TestAmerica

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Sample Results Summary

TestAmerica TARL

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

Date: 29-Sep-11

Report No. : 48592

SDG No: J01273

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1256127 UISO_IE_PLATE_AEA									
J1KV93									
	MMDG61AC	U-234	3.05E-01 +- 2.0E-01		pCi/g	109%	1.13E-01	1.00E+00	
		U-235	5.42E-02 +- 8.0E-02	U	pCi/g	109%	1.08E-01	1.00E+00	
		U-238	1.60E-01 +- 1.4E-01		pCi/g	109%	1.45E-01	1.00E+00	
J1KV94									
	MMDG71AC	U-234	1.85E-01 +- 1.4E-01		pCi/g	102%	1.38E-01	1.00E+00	
		U-235	-1.22E-02 +- 4.9E-02	U	pCi/g	102%	1.46E-01	1.00E+00	
		U-238	2.12E-01 +- 1.5E-01		pCi/g	102%	1.28E-01	1.00E+00	
J1KV95									
	MMDG81AC	U-234	1.55E-01 +- 1.3E-01		pCi/g	97%	1.48E-01	1.00E+00	
		U-235	2.16E-02 +- 4.8E-02	U	pCi/g	97%	1.01E-01	1.00E+00	
		U-238	1.84E-01 +- 1.4E-01		pCi/g	97%	1.31E-01	1.00E+00	
J1KV96									
	MMDG91AC	U-234	1.70E-01 +- 1.6E-01		pCi/g	69%	1.27E-01	1.00E+00	
		U-235	0.00E+00 +- 6.8E-02	U	pCi/g	69%	1.27E-01	1.00E+00	
		U-238	3.39E-01 +- 2.3E-01		pCi/g	69%	1.27E-01	1.00E+00	
J1KV97									
	MMDHC1AC	U-234	6.42E-02 +- 9.4E-02	U	pCi/g	69%	1.23E-01	1.00E+00	
		U-235	0.00E+00 +- 6.6E-02	U	pCi/g	69%	1.23E-01	1.00E+00	
		U-238	1.97E-01 +- 1.7E-01		pCi/g	69%	1.23E-01	1.00E+00	
J1KV98									
	MMDHD1AC	U-234	4.76E-01 +- 3.4E-01		pCi/g	46%	2.00E-01	1.00E+00	
		U-235	4.79E-02 +- 1.1E-01	U	pCi/g	46%	2.23E-01	1.00E+00	
		U-238	1.04E-01 +- 1.5E-01	U	pCi/g	46%	2.00E-01	1.00E+00	
1256122 GAMMA_GS									
J1KV86									
	MMDGV1AH	AMERICIUM 241	-2.47E-02 +- 8.4E-02	U	pCi/g		1.45E-01		
		CO-60	-9.00E-03 +- 1.4E-02	U	pCi/g		2.25E-02	5.00E-02	
		CS-137	1.19E-03 +- 1.4E-02	U	pCi/g		2.43E-02	1.00E-01	
		EU-152	-1.41E-03 +- 3.2E-02	U	pCi/g		5.42E-02	1.00E-01	
		EU-154	6.23E-03 +- 4.5E-02	U	pCi/g		7.93E-02	1.00E-01	
		EU-155	4.17E-02 +- 3.8E-02	U	pCi/g		6.55E-02	1.00E-01	
J1KV87									
	MMDG01AH	AMERICIUM 241	-1.81E-02 +- 6.4E-02	U	pCi/g		1.06E-01		
		CO-60	9.73E-03 +- 1.9E-02	U	pCi/g		3.59E-02	5.00E-02	
		CS-137	5.16E-03 +- 1.9E-02	U	pCi/g		3.43E-02	1.00E-01	
		EU-152	-4.38E-03 +- 5.0E-02	U	pCi/g		8.27E-02	1.00E-01	
		EU-154	-3.43E-02 +- 6.3E-02	U	pCi/g		1.04E-01	1.00E-01	

TestAmerica

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Sample Results Summary

Date: 29-Sep-11

TestAmerica TARL

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

Report No. : 48592

SDG No: J01273

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1256122 GAMMA_GS									
J1KV87									
	MMDG01AH	EU-155	1.90E-02 +- 4.8E-02	U	pCi/g		8.28E-02	1.00E-01	
J1KV88									
	MMDG11AH	AMERICIUM 241	-4.49E-02 +- 7.6E-02	U	pCi/g		1.26E-01		
		CO-60	1.24E-02 +- 1.6E-02	U	pCi/g		2.92E-02	5.00E-02	
		CS-137	6.51E-03 +- 1.7E-02	U	pCi/g		3.02E-02	1.00E-01	
		EU-152	3.88E-02 +- 7.8E-02	U	pCi/g		8.16E-02	1.00E-01	
		EU-154	1.49E-02 +- 5.4E-02	U	pCi/g		9.46E-02	1.00E-01	
		EU-155	6.36E-03 +- 5.6E-02	U	pCi/g		9.39E-02	1.00E-01	
J1KV89									
	MMDG21AH	AMERICIUM 241	-4.71E-02 +- 1.6E-01	U	pCi/g		2.77E-01		
		CO-60	1.35E-03 +- 1.9E-02	U	pCi/g		3.25E-02	5.00E-02	
		CS-137	9.22E-03 +- 1.7E-02	U	pCi/g		3.05E-02	1.00E-01	
		EU-152	-1.31E-02 +- 4.4E-02	U	pCi/g		7.49E-02	1.00E-01	
		EU-154	4.47E-02 +- 5.8E-02	U	pCi/g		1.06E-01	1.00E-01	
		EU-155	3.08E-02 +- 5.4E-02	U	pCi/g		9.33E-02	1.00E-01	
J1KV90									
	MMDG31AH	AMERICIUM 241	-9.57E-02 +- 8.7E-02	U	pCi/g		1.44E-01		
		CO-60	5.26E-03 +- 1.5E-02	U	pCi/g		2.71E-02	5.00E-02	
		CS-137	1.05E-01 +- 4.0E-02		pCi/g		2.31E-02	1.00E-01	
		EU-152	-1.32E-02 +- 3.3E-02	U	pCi/g		5.47E-02	1.00E-01	
		EU-154	-3.26E-02 +- 4.9E-02	U	pCi/g		8.04E-02	1.00E-01	
		EU-155	1.24E-02 +- 4.0E-02	U	pCi/g		6.76E-02	1.00E-01	
J1KV91									
	MMDG41AH	AMERICIUM 241	-2.19E-02 +- 4.2E-02	U	pCi/g		6.83E-02		
		CO-60	1.99E-02 +- 2.2E-02	U	pCi/g		4.15E-02	5.00E-02	
		CS-137	7.03E-03 +- 2.3E-02	U	pCi/g		4.03E-02	1.00E-01	
		EU-152	-2.15E-02 +- 6.8E-02	U	pCi/g		9.70E-02	1.00E-01	
		EU-154	-3.56E-02 +- 6.3E-02	U	pCi/g		1.05E-01	1.00E-01	
		EU-155	3.28E-03 +- 5.7E-02	U	pCi/g		9.64E-02	1.00E-01	
J1KV91 DUP									
	MMDG41AK	AMERICIUM 241	-4.70E-02 +- 6.0E-02	U	pCi/g		9.79E-02		-73.0
		CO-60	-1.27E-03 +- 1.8E-02	U	pCi/g		3.25E-02	5.00E-02	227.2
		CS-137	3.07E-02 +- 1.8E-02	U	pCi/g		3.43E-02	1.00E-01	125.4
		EU-152	-4.71E-02 +- 4.8E-02	U	pCi/g		7.55E-02	1.00E-01	-74.6
		EU-154	1.75E-02 +- 5.8E-02	U	pCi/g		1.05E-01	1.00E-01	-586.9
		EU-155	2.49E-02 +- 4.6E-02	U	pCi/g		7.98E-02	1.00E-01	153.5
J1KV92									

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Sample Results Summary

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

Date: 29-Sep-11

Report No. : 48592

SDG No: J01273

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1256122 GAMMA_GS									
J1KV92									
	MMDG51AH	AMERICIUM 241	-3.60E-02 +- 8.7E-02	U	pCi/g		1.45E-01		
		CO-60	-3.39E-03 +- 1.8E-02	U	pCi/g		3.06E-02	5.00E-02	
		CS-137	1.18E-02 +- 1.9E-02	U	pCi/g		3.36E-02	1.00E-01	
		EU-152	-5.28E-02 +- 9.4E-02	U	pCi/g		8.75E-02	1.00E-01	
		EU-154	-7.26E-03 +- 5.9E-02	U	pCi/g		1.01E-01	1.00E-01	
		EU-155	-1.09E-02 +- 6.5E-02	U	pCi/g		1.08E-01	1.00E-01	
J1KV93									
	MMDG61AH	AMERICIUM 241	-2.41E-01 +- 1.8E-01	U	pCi/g		2.80E-01		
		CO-60	-5.74E-03 +- 1.9E-02	U	pCi/g		3.19E-02	5.00E-02	
		CS-137	2.11E-02 +- 1.8E-02	U	pCi/g		3.33E-02	1.00E-01	
		EU-152	1.43E-02 +- 4.7E-02	U	pCi/g		8.11E-02	1.00E-01	
		EU-154	2.12E-02 +- 6.1E-02	U	pCi/g		1.08E-01	1.00E-01	
		EU-155	6.79E-03 +- 5.5E-02	U	pCi/g		9.53E-02	1.00E-01	
J1KV94									
	MMDG71AH	AMERICIUM 241	3.06E-02 +- 9.6E-02	U	pCi/g		1.70E-01		
		CO-60	9.80E-03 +- 1.4E-02	U	pCi/g		2.65E-02	5.00E-02	
		CS-137	2.02E-02 +- 1.8E-02	U	pCi/g		3.13E-02	1.00E-01	
		EU-152	2.61E-03 +- 3.5E-02	U	pCi/g		5.99E-02	1.00E-01	
		EU-154	-3.39E-02 +- 5.2E-02	U	pCi/g		8.64E-02	1.00E-01	
		EU-155	4.22E-02 +- 4.3E-02	U	pCi/g		7.42E-02	1.00E-01	
J1KV95									
	MMDG81AH	AMERICIUM 241	-4.37E-02 +- 4.8E-02	U	pCi/g		7.68E-02		
		CO-60	-1.15E-02 +- 2.3E-02	U	pCi/g		3.93E-02	5.00E-02	
		CS-137	4.41E-02 +- 2.8E-02	U	pCi/g		5.10E-02	1.00E-01	
		EU-152	6.06E-03 +- 6.9E-02	U	pCi/g		1.09E-01	1.00E-01	
		EU-154	-1.50E-02 +- 7.1E-02	U	pCi/g		1.22E-01	1.00E-01	
		EU-155	-7.48E-03 +- 6.3E-02	U	pCi/g		1.06E-01	1.00E-01	
J1KV96									
	MMDG91AH	AMERICIUM 241	2.37E-03 +- 6.9E-02	U	pCi/g		1.17E-01		
		CO-60	-1.96E-02 +- 2.0E-02	U	pCi/g		3.16E-02	5.00E-02	
		CS-137	1.63E-02 +- 2.2E-02	U	pCi/g		3.97E-02	1.00E-01	
		EU-152	-1.99E-02 +- 5.3E-02	U	pCi/g		8.76E-02	1.00E-01	
		EU-154	-4.14E-03 +- 6.7E-02	U	pCi/g		1.16E-01	1.00E-01	
		EU-155	-1.55E-02 +- 5.1E-02	U	pCi/g		8.69E-02	1.00E-01	
J1KV97									
	MMDHC1AH	AMERICIUM 241	-5.38E-02 +- 7.2E-02	U	pCi/g		1.19E-01		
		CO-60	1.48E-02 +- 1.6E-02	U	pCi/g		2.96E-02	5.00E-02	

TestAmerica

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Date: 29-Sep-11

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

Report No. : 48592

SDG No: J01273

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1256122 GAMMA_GS									
J1KV97									
	MMDHC1AH	CS-137	2.70E-02 +- 1.8E-02	U	pCi/g		3.18E-02	1.00E-01	
		EU-152	-2.68E-02 +- 7.0E-02	U	pCi/g		7.71E-02	1.00E-01	
		EU-154	-3.24E-02 +- 4.9E-02	U	pCi/g		8.10E-02	1.00E-01	
		EU-155	-1.17E-02 +- 5.4E-02	U	pCi/g		9.03E-02	1.00E-01	
J1KV98									
	MMDHD1AH	AMERICIUM 241	2.62E-02 +- 1.5E-01	U	pCi/g		2.56E-01		
		CO-60	-1.84E-02 +- 1.8E-02	U	pCi/g		2.89E-02	5.00E-02	
		CS-137	1.04E-02 +- 1.7E-02	U	pCi/g		3.09E-02	1.00E-01	
		EU-152	-2.73E-02 +- 4.3E-02	U	pCi/g		7.18E-02	1.00E-01	
		EU-154	-1.89E-02 +- 5.2E-02	U	pCi/g		8.83E-02	1.00E-01	
		EU-155	1.82E-02 +- 5.1E-02	U	pCi/g		8.83E-02	1.00E-01	
1256121 SRTOT_SEP_PRECIP_GPC									
J1KV86									
	MMDGV1AD	STRONTIUM	6.67E-02 +- 8.0E-02	U	pCi/g	65%	1.68E-01		
J1KV87									
	MMDG01AD	STRONTIUM	8.33E-02 +- 8.6E-02	U	pCi/g	61%	1.76E-01		
J1KV88									
	MMDG11AD	STRONTIUM	2.10E-01 +- 1.1E-01		pCi/g	64%	1.70E-01		
J1KV89									
	MMDG21AD	STRONTIUM	1.31E-01 +- 9.9E-02	U	pCi/g	63%	1.87E-01		
J1KV90									
	MMDG31AD	STRONTIUM	-1.80E-03 +- 7.0E-02	U	pCi/g	64%	1.68E-01		
J1KV91									
	MMDG41AD	STRONTIUM	3.20E-02 +- 7.2E-02	U	pCi/g	63%	1.61E-01		
J1KV92									
	MMDG51AD	STRONTIUM	8.34E-02 +- 8.0E-02	U	pCi/g	63%	1.60E-01		
J1KV92 DUP									
	MMDG51AK	STRONTIUM	8.95E-02 +- 8.2E-02	U	pCi/g	64%	1.63E-01		7.0
J1KV93									
	MMDG61AD	STRONTIUM	1.97E-02 +- 7.4E-02	U	pCi/g	66%	1.69E-01		
J1KV94									
	MMDG71AD	STRONTIUM	4.27E-02 +- 8.1E-02	U	pCi/g	67%	1.78E-01		
J1KV95									
	MMDG81AD	STRONTIUM	8.55E-04 +- 7.2E-02	U	pCi/g	66%	1.70E-01		
J1KV96									
	MMDG91AD	STRONTIUM	-3.61E-02 +- 6.1E-02	U	pCi/g	70%	1.55E-01		
J1KV97									

TestAmerica

rptSTLRchSaSummary2 V5.2.15 A2002

RPD - Relative Percent Difference.

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

Sample Results Summary

Date: 29-Sep-11

TestAmerica TARL

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

Report No. : 48592 **SDG No:** J01273

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1256121	**SRTOT_SEP_PRECIP_GPC**								
	J1KV97								
	MMDHC1AD	STRONTIUM	5.46E-02 +- 7.4E-02	U	pCi/g	67%	1.58E-01		
	J1KV98								
	MMDHD1AD	STRONTIUM	3.20E-02 +- 7.0E-02	U	pCi/g	68%	1.57E-01		
1255176	**7196_CR6**								
	J1KV86								
	MMDGV1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	MMDGV1AL	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	3.50E-01	0.0
	J1KV87								
	MMDG01AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1KV88								
	MMDG11AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1KV89								
	MMDG21AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1KV90								
	MMDG31AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1KV91								
	MMDG41AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1KV92								
	MMDG51AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1KV93								
	MMDG61AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1KV94								
	MMDG71AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1KV95								
	MMDG81AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1KV96								
	MMDG91AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1KV97								
	MMDHC1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1KV98								
	MMDHD1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
1256123	**906.0_H3_LSC**								
	J1KV86								
	MMDGV1AG	H-3	9.82E-04 +- 8.7E-03	U	pCi/g	100%	1.97E-02	4.00E+02	
	J1KV87								
	MMDG01AG	H-3	7.99E-03 +- 1.1E-02	U	pCi/g	100%	2.43E-02	4.00E+02	
	J1KV88								
	MMDG11AG	H-3	1.10E-03 +- 8.8E-03	U	pCi/g	100%	2.01E-02	4.00E+02	

TestAmerica **RPD - Relative Percent Difference.**

rptSTLRchSaSummary2 V5.2.15 A2002

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.

Sample Results Summary

TestAmerica TARL

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

Date: 29-Sep-11

Report No. : 48592

SDG No: J01273

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1256123	906.0_H3_LSC								
	J1KV89								
	MMDG21AG	H-3	1.55E-02 +- 1.1E-02	U	pCi/g	100%	2.38E-02	4.00E+02	
	J1KV90								
	MMDG31AG	H-3	1.98E-02 +- 8.8E-03		pCi/g	100%	1.85E-02	4.00E+02	
	J1KV90 DUP								
	MMDG31AK	H-3	1.56E-02 +- 7.1E-03		pCi/g	100%	1.47E-02	4.00E+02	23.8
	J1KV91								
	MMDG41AG	H-3	6.31E-02 +- 1.0E-02		pCi/g	100%	1.85E-02	4.00E+02	
	J1KV92								
	MMDG51AG	H-3	2.20E-02 +- 1.1E-02	U	pCi/g	100%	2.37E-02	4.00E+02	
	J1KV93								
	MMDG61AG	H-3	1.39E-02 +- 8.8E-03	U	pCi/g	100%	1.90E-02	4.00E+02	
	J1KV94								
	MMDG71AG	H-3	1.61E-02 +- 9.1E-03	U	pCi/g	100%	1.95E-02	4.00E+02	
	J1KV95								
	MMDG81AG	H-3	1.56E-02 +- 1.4E-02	U	pCi/g	100%	3.10E-02	4.00E+02	
	J1KV96								
	MMDG91AG	H-3	9.23E-03 +- 8.7E-03	U	pCi/g	100%	1.90E-02	4.00E+02	
	J1KV97								
	MMDHC1AG	H-3	1.55E-02 +- 9.0E-03	U	pCi/g	100%	1.91E-02	4.00E+02	
	J1KV98								
	MMDHD1AG	H-3	1.33E-02 +- 8.9E-03	U	pCi/g	100%	1.91E-02	4.00E+02	
1256124	NI63_LSC								
	J1KV86								
	MMDGV1AE	NI-63	-1.80E+00 +- 5.8E+00	U	pCi/g	99%	1.27E+01	3.00E+01	
	J1KV87								
	MMDG01AE	NI-63	3.23E+00 +- 6.3E+00	U	pCi/g	96%	1.28E+01	3.00E+01	
	J1KV88								
	MMDG11AE	NI-63	6.15E-01 +- 5.8E+00	U	pCi/g	100%	1.22E+01	3.00E+01	
	J1KV89								
	MMDG21AE	NI-63	-1.99E+00 +- 5.8E+00	U	pCi/g	98%	1.25E+01	3.00E+01	
	J1KV89 DUP								
	MMDG21AK	NI-63	-2.21E+00 +- 6.0E+00	U	pCi/g	95%	1.29E+01	3.00E+01	-10.7
	J1KV90								
	MMDG31AE	NI-63	5.97E+00 +- 6.2E+00	U	pCi/g	100%	1.22E+01	3.00E+01	
	J1KV91								
	MMDG41AE	NI-63	5.79E-01 +- 5.8E+00	U	pCi/g	100%	1.23E+01	3.00E+01	
	J1KV92								
	MMDG51AE	NI-63	1.72E+00 +- 5.9E+00	U	pCi/g	100%	1.22E+01	3.00E+01	

TestAmerica

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RPD - Relative Percent Difference.

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

Sample Results Summary

Date: 29-Sep-11

TestAmerica TARL

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

Report No. : 48592 **SDG No:** J01273

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1256124 NI63_LSC									
	J1KV93								
	MMDG61AE	NI-63	-4.61E+00 +- 5.7E+00	U	pCi/g	97%	1.27E+01	3.00E+01	
	J1KV94								
	MMDG71AE	NI-63	1.16E+00 +- 5.9E+00	U	pCi/g	100%	1.22E+01	3.00E+01	
	J1KV95								
	MMDG81AE	NI-63	-1.55E+00 +- 5.7E+00	U	pCi/g	100%	1.22E+01	3.00E+01	
	J1KV96								
	MMDG91AE	NI-63	2.83E+00 +- 6.0E+00	U	pCi/g	99%	1.24E+01	3.00E+01	
	J1KV97								
	MMDHC1AE	NI-63	3.01E+00 +- 6.0E+00	U	pCi/g	100%	1.22E+01	3.00E+01	
	J1KV98								
	MMDHD1AE	NI-63	-1.43E-01 +- 5.9E+00	U	pCi/g	98%	1.25E+01	3.00E+01	
1256126 C14_CHEM_LSC									
	J1KV86								
	MMDGV1AJ	C-14	2.57E-01 +- 2.1E-01	U	pCi/g	100%	4.40E-01	5.00E+01	
	J1KV87								
	MMDG01AJ	C-14	3.00E-01 +- 2.1E-01	U	pCi/g	100%	4.41E-01	5.00E+01	
	J1KV88								
	MMDG11AJ	C-14	1.59E-01 +- 2.0E-01	U	pCi/g	100%	4.41E-01	5.00E+01	
	J1KV88 DUP								
	MMDG11AK	C-14	3.57E-01 +- 2.1E-01	U	pCi/g	100%	4.40E-01	5.00E+01	77.0
	J1KV89								
	MMDG21AJ	C-14	1.58E-01 +- 2.0E-01	U	pCi/g	100%	4.38E-01	5.00E+01	
	J1KV90								
	MMDG31AJ	C-14	1.83E-01 +- 2.0E-01	U	pCi/g	100%	4.40E-01	5.00E+01	
	J1KV91								
	MMDG41AJ	C-14	1.60E-01 +- 2.0E-01	U	pCi/g	100%	4.42E-01	5.00E+01	
	J1KV92								
	MMDG51AJ	C-14	2.12E-01 +- 2.1E-01	U	pCi/g	100%	4.39E-01	5.00E+01	
	J1KV93								
	MMDG61AJ	C-14	3.97E-01 +- 2.2E-01	U	pCi/g	100%	4.41E-01	5.00E+01	
	J1KV94								
	MMDG71AJ	C-14	2.17E-01 +- 2.1E-01	U	pCi/g	100%	4.41E-01	5.00E+01	
	J1KV95								
	MMDG81AJ	C-14	1.68E-01 +- 2.0E-01	U	pCi/g	100%	4.40E-01	5.00E+01	
	J1KV96								
	MMDG91AJ	C-14	4.42E-01 +- 2.2E-01		pCi/g	100%	4.40E-01	5.00E+01	
	J1KV97								
	MMDHC1AJ	C-14	3.32E-01 +- 2.1E-01	U	pCi/g	100%	4.39E-01	5.00E+01	

TestAmerica

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RPD - Relative Percent Difference.

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

Sample Results Summary

Date: 29-Sep-11

TestAmerica TARL

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

Report No. : 48592 **SDG No:** J01273

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1256126	C14_CHEM_LSC								
	J1KV98								
	MMDHD1AJ	C-14	2.81E-01 +- 2.1E-01	U	pCi/g	100%	4.42E-01	5.00E+01	

No. of Results: 224

TestAmerica

rptSTLRchSaSummary2 V5.2.15 A2002

RPD - Relative Percent Difference.

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

QC Results Summary

Date: 29-Sep-11

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 48592 **SDG No.:** J01273

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
PUISO_PLATE_AEA								
1256128 BLANK QC,								
MMD661AA	PU-238	-2.75E-03 +- 5.5E-02	U	pCi/g	100%			1.15E-01
	PU239/40	-1.37E-03 +- 5.5E-02	U	pCi/g	100%			1.03E-01
1256128 LCS,								
MMD661AC	PU239/40	6.56E+00 +- 1.7E+00		pCi/g	100%	97%	0.0	1.22E-01
UISO_IE_PLATE_AEA								
1256127 BLANK QC,								
MMD631AA	U-234	-6.52E-03 +- 6.6E-02	U	pCi/g	66%			1.56E-01
	U-235	-1.63E-03 +- 6.5E-02	U	pCi/g	66%			1.22E-01
	U-238	-4.89E-03 +- 6.5E-02	U	pCi/g	66%			1.47E-01
1256127 LCS,								
MMD631AC	U-234	3.47E+00 +- 1.2E+00		pCi/g	53%	109%	0.1	2.53E-01
	U-238	2.94E+00 +- 1.0E+00		pCi/g	53%	88%	-0.1	2.44E-01
GAMMA_GS								
1256122 BLANK QC,								
MMD6M1AA	AMERICIUM 241	-1.99E-02 +- 2.5E-02	U	pCi/g				4.10E-02
	CO-60	-1.20E-03 +- 1.5E-02	U	pCi/g				2.71E-02
	CS-137	-6.63E-03 +- 1.6E-02	U	pCi/g				2.71E-02
	EU-152	-1.89E-02 +- 4.5E-02	U	pCi/g				7.58E-02
	EU-154	1.78E-02 +- 4.0E-02	U	pCi/g				7.86E-02
	EU-155	1.50E-02 +- 3.7E-02	U	pCi/g				6.55E-02
1256122 LCS,								
MMD6M1AC	CS-137	1.16E+00 +- 1.6E-01		pCi/g		108%	0.1	4.61E-02
	RA-226	1.00E+00 +- 1.7E-01		pCi/g		88%	-0.1	6.46E-02
	RA-228	1.04E+00 +- 2.1E-01		pCi/g		117%	0.2	1.28E-01
	U-238	1.05E+00 +- 1.7E-01		pCi/g		87%	-0.1	7.05E-02
SRTOT_SEP_PRECIP_GPC								
1256121 BLANK QC,								
MMD6K1AA	STRONTIUM	-9.94E-03 +- 4.7E-02	U	pCi/g	92%			1.17E-01
1256121 LCS,								
MMD6K1AC	STRONTIUM	1.14E+00 +- 3.3E-01		pCi/g	93%	101%	0.0	1.14E-01
7196_CR6								
1255176 MATRIX SPIKE, J1KV86								
MMDGV1AK	HEXCHROME	8.94E+00 +- 0.0E+00		mg/kg	N/A	89%	-0.1	1.55E-01
1255176 LCS,								
MMDKQ1AC	HEXCHROME	1.98E+01 +- 0.0E+00		mg/kg	N/A	99%	0.0	1.55E-01
1255176 BLANK QC,								
MMDKQ1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01
906.0_H3_LSC								
1256123 BLANK QC,								
MMD6P1AA	H-3	3.68E-03 +- 1.5E-02	U	pCi/g	100%			3.42E-02

TestAmerica rptSTLRchQcSummary V5.2.15 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

Date: 29-Sep-11

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 48592

SDG No.: J01273

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
1256123 LCS,								
MMD6P1AC	H-3	2.84E-01 +- 2.5E-02		pCi/g	100%	99%	0.0	3.51E-02
NI63_LSC								
1256124 BLANK QC,								
MMD6Q1AA	NI-63	1.15E+00 +- 5.9E+00	U	pCi/g	99%			1.24E+01
1256124 LCS,								
MMD6Q1AC	NI-63	4.84E+02 +- 5.1E+01		pCi/g	66%	79%	-0.2	1.86E+01
C14_CHEM_LSC								
1256126 BLANK QC,								
MMD6W1AA	C-14	2.14E-03 +- 5.0E-03	U	pCi/g	100%			1.10E-02
1256126 LCS,								
MMD6W1AC	C-14	7.62E+00 +- 5.2E-01		pCi/g	100%	105%	0.0	4.42E-01

No. of Results: 29

TestAmerica

rptSTLRchQcSummary V5.2.15 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: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 8:15:00 AM
Lot-Sample No.:	J1I120446-1	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV86	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1255176	7196_CR6			**Work Order:**	MMDGV1AA		**Report DB ID:**	9MMDGV10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/14/11 08:15 a		2.5023	
							1.55E-01	*N/A*			g	
Batch: 1256121	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MMDGV1AD		**Report DB ID:**	9MMDGV10				
STRONTIUM	***6.67E-02***	U	7.8E-02	8.0E-02	1.68E-01	pCi/g	65%	*0.4*	9/26/11 05:59 p		6.0	GPC32A
						7.79E-02		*(1.7)*			g	
Batch: 1256122	GAMMA_GS			**Work Order:**	MMDGV1AH		**Report DB ID:**	9MMDGV10				
AMERICIUM 241	***-2.47E-02***	U	8.4E-02	8.4E-02	1.45E-01	pCi/g		*-0.17*	9/15/11 09:54 a		389.6	GER11$1
								-0.59			g	
CO-60	***-9.00E-03***	U	1.4E-02	1.4E-02	2.25E-02	pCi/g		*-0.4*	9/15/11 09:54 a		389.6	GER11$1
							5.00E-02	*-(1.3)*			g	
CS-137	***1.19E-03***	U	1.4E-02	1.4E-02	2.43E-02	pCi/g		*0.05*	9/15/11 09:54 a		389.6	GER11$1
							1.00E-01	*0.17*			g	
EU-152	***-1.41E-03***	U	3.2E-02	3.2E-02	5.42E-02	pCi/g		*-0.03*	9/15/11 09:54 a		389.6	GER11$1
							1.00E-01	*-0.09*			g	
EU-154	***6.23E-03***	U	4.5E-02	4.5E-02	7.93E-02	pCi/g		*0.08*	9/15/11 09:54 a		389.6	GER11$1
							1.00E-01	*0.28*			g	
EU-155	***4.17E-02***	U	3.8E-02	3.8E-02	6.55E-02	pCi/g		*0.64*	9/15/11 09:54 a		389.6	GER11$1
							1.00E-01	*(2.2)*			g	
Batch: 1256123	906.0_H3_LSC			**Work Order:**	MMDGV1AG		**Report DB ID:**	9MMDGV10				
H-3	***9.82E-04***	U	8.1E-03	8.7E-03	1.97E-02	pCi/g	100%	*0.05*	9/19/11 08:05 p		112.3	LSC4
						9.40E-03	4.00E+02	*0.23*			g	

TestAmerica
rptSTLRchSample
V5.2.15 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: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 8:15:00 AM
Lot-Sample No.:	J1I120446-1	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV86	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1256124	NI63_LSC			**Work Order:**	MMDGV1AE		**Report DB ID:**	9MMDGV10				
NI-63	***-1.80E+00***	U	4.9E+00	5.8E+00	1.27E+01	pCi/g	99%	*-0.14*	9/22/11 12:52 p		0.25	LSC3
						5.95E+00	3.00E+01	*-0.63*			g	
Batch: 1256126	C14_CHEM_LSC			**Work Order:**	MMDGV1AJ		**Report DB ID:**	9MMDGV10				
C-14	***2.57E-01***	U	1.9E-01	2.1E-01	4.40E-01	pCi/g	100%	*0.58*	9/17/11 04:24 a		5.028	LSC3
						2.07E-01	5.00E+01	*(2.5)*			g	
Batch: 1256127	UISO_IE_PLATE_AEA			**Work Order:**	MMDGV1AC		**Report DB ID:**	9MMDGV10				
U-234	***1.01E-01***	U	1.1E-01	1.1E-01	1.58E-01	pCi/g	85%	*0.64*	9/27/11 03:58 p		1.03	ALP3
						4.11E-02	1.00E+00	*(1.8)*			g	
U-235	***1.68E-02***	U	5.6E-02	5.7E-02	1.58E-01	pCi/g	85%	*0.11*	9/27/11 03:58 p		1.03	ALP3
						4.11E-02	1.00E+00	*0.59*			g	
U-238	***2.71E-01***		1.8E-01	1.9E-01	1.47E-01	pCi/g	85%	*(1.8)*	9/27/11 03:58 p		1.03	ALP3
						3.56E-02	1.00E+00	*(2.9)*			g	
								Ratio U-234/238 = 0.4				
Batch: 1256128	PUISO_PLATE_AEA			**Work Order:**	MMDGV1AF		**Report DB ID:**	9MMDGV10				
PU-238	***-4.32E-03***	U	5.8E-02	5.8E-02	1.30E-01	pCi/g	99%	*-0.03*	9/26/11 11:00 a		1.0	ALP38
						2.60E-02	1.00E+00	*-0.15*			g	
PU239/40	***2.73E-02***	U	5.8E-02	5.8E-02	1.08E-01	pCi/g	99%	*0.25*	9/26/11 11:00 a		1.0	ALP38
						1.50E-02	1.00E+00	*0.94*			g	

No. of Results: 16 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.15 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: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 8:20:00 AM
Lot-Sample No.:	J1I120446-2	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV87	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1255176	7196_CR6			**Work Order:**	MMDG01AA		**Report DB ID:**	9MMDG010				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/14/11 08:15 a		2.5029	
							1.55E-01	*N/A*			g	
Batch: 1256121	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MMDG01AD		**Report DB ID:**	9MMDG010				
STRONTIUM	***8.33E-02***	U	8.4E-02	8.6E-02	1.76E-01	pCi/g	61%	*0.47*	9/26/11 05:59 p		6.02	GPC32B
						8.18E-02		*(1.9)*			g	
Batch: 1256122	GAMMA_GS			**Work Order:**	MMDG01AH		**Report DB ID:**	9MMDG010				
AMERICIUM 241	***-1.81E-02***	U	6.4E-02	6.4E-02	1.06E-01	pCi/g		*-0.17*	9/15/11 09:55 a		399.2	GER7$1
								-0.57			g	
CO-60	***9.73E-03***	U	1.9E-02	1.9E-02	3.59E-02	pCi/g		*0.27*	9/15/11 09:55 a		399.2	GER7$1
							5.00E-02	*(1.)*			g	
CS-137	***5.16E-03***	U	1.9E-02	1.9E-02	3.43E-02	pCi/g		*0.15*	9/15/11 09:55 a		399.2	GER7$1
							1.00E-01	*0.53*			g	
EU-152	***-4.38E-03***	U	5.0E-02	5.0E-02	8.27E-02	pCi/g		*-0.05*	9/15/11 09:55 a		399.2	GER7$1
							1.00E-01	*-0.17*			g	
EU-154	***-3.43E-02***	U	6.3E-02	6.3E-02	1.04E-01	pCi/g		*-0.33*	9/15/11 09:55 a		399.2	GER7$1
							1.00E-01	*-(1.1)*			g	
EU-155	***1.90E-02***	U	4.8E-02	4.8E-02	8.28E-02	pCi/g		*0.23*	9/15/11 09:55 a		399.2	GER7$1
							1.00E-01	*0.8*			g	
Batch: 1256123	906.0_H3_LSC			**Work Order:**	MMDG01AG		**Report DB ID:**	9MMDG010				
H-3	***7.99E-03***	U	1.0E-02	1.1E-02	2.43E-02	pCi/g	100%	*0.33*	9/19/11 09:28 p		89.1	LSC4
						1.16E-02	4.00E+02	*(1.5)*			g	

TestAmerica
rptSTLRchSample
V5.2.15 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: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 8:20:00 AM
Lot-Sample No.:	J1I120446-2	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV87	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1256124	NI63_LSC			**Work Order:**	MMDG01AE		**Report DB ID:**	9MMDG010				
NI-63	***3.23E+00***	U	5.3E+00	6.3E+00	1.28E+01	pCi/g	96%	*0.25*	9/22/11 01:15 p		0.25	LSC3
						5.99E+00	3.00E+01	*(1.)*			g	
Batch: 1256126	C14_CHEM_LSC			**Work Order:**	MMDG01AJ		**Report DB ID:**	9MMDG010				
C-14	***3.00E-01***	U	1.9E-01	2.1E-01	4.41E-01	pCi/g	100%	*0.68*	9/17/11 04:47 a		5.002	LSC3
						2.08E-01	5.00E+01	*(2.8)*			g	
Batch: 1256127	UISO_IE_PLATE_AEA			**Work Order:**	MMDG01AC		**Report DB ID:**	9MMDG010				
U-234	***1.31E-01***	U	1.7E-01	1.7E-01	2.55E-01	pCi/g	48%	*0.51*	9/27/11 03:58 p		1.03	ALP4
						6.18E-02	1.00E+00	*(1.5)*			g	
U-235	***-4.85E-03***	U	9.7E-02	9.7E-02	2.03E-01	pCi/g	48%	*-0.02*	9/27/11 03:58 p		1.03	ALP4
						3.57E-02	1.00E+00	*-0.1*			g	
U-238	***3.25E-01***		2.6E-01	2.7E-01	2.55E-01	pCi/g	48%	*(1.3)*	9/27/11 03:58 p		1.03	ALP4
						6.18E-02	1.00E+00	*(2.4)*			g	
								Ratio U-234/238 = 0.4				
Batch: 1256128	PUISO_PLATE_AEA			**Work Order:**	MMDG01AF		**Report DB ID:**	9MMDG010				
PU-238	***0.00E+00***	U	0.0E+00	7.7E-02	1.45E-01	pCi/g	82%	*0.*	9/26/11 11:00 a		1.01	ALP40
						2.01E-02	1.00E+00	*0.*			g	
PU239/40	***0.00E+00***	U	0.0E+00	7.7E-02	1.45E-01	pCi/g	82%	*0.*	9/26/11 11:00 a		1.01	ALP40
						2.01E-02	1.00E+00	*0.*			g	

No. of Results: 16 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.15 A2002

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FORM I

SAMPLE RESULTS

Date: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 8:35:00 AM
Lot-Sample No.:	J1I120446-3	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV88	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1255176	7196_CR6			**Work Order:**	MMDG11AA		**Report DB ID:**	9MMDG110				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/14/11 08:15 a		2.5032	
							1.55E-01	*N/A*			g	
Batch: 1256121	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MMDG11AD		**Report DB ID:**	9MMDG110				
STRONTIUM	***2.10E-01***		9.4E-02	1.1E-01	1.70E-01	pCi/g	64%	*(1.2)*	9/26/11 05:59 p		6.01	GPC32C
						7.88E-02		*(3.9)*			g	
Batch: 1256122	GAMMA_GS			**Work Order:**	MMDG11AH		**Report DB ID:**	9MMDG110				
AMERICIUM 241	***-4.49E-02***	U	7.6E-02	7.6E-02	1.26E-01	pCi/g		*-0.36*	9/15/11 09:55 a		377.6	GER10$1
								-(1.2)			g	
CO-60	***1.24E-02***	U	1.6E-02	1.6E-02	2.92E-02	pCi/g		*0.42*	9/15/11 09:55 a		377.6	GER10$1
							5.00E-02	*(1.6)*			g	
CS-137	***6.51E-03***	U	1.7E-02	1.7E-02	3.02E-02	pCi/g		*0.22*	9/15/11 09:55 a		377.6	GER10$1
							1.00E-01	*0.75*			g	
EU-152	***3.88E-02***	U	7.8E-02	7.8E-02	8.16E-02	pCi/g		*0.48*	9/15/11 09:55 a		377.6	GER10$1
							1.00E-01	*1.*			g	
EU-154	***1.49E-02***	U	5.4E-02	5.4E-02	9.46E-02	pCi/g		*0.16*	9/15/11 09:55 a		377.6	GER10$1
							1.00E-01	*0.55*			g	
EU-155	***6.36E-03***	U	5.6E-02	5.6E-02	9.39E-02	pCi/g		*0.07*	9/15/11 09:55 a		377.6	GER10$1
							1.00E-01	*0.23*			g	
Batch: 1256123	906.0_H3_LSC			**Work Order:**	MMDG11AG		**Report DB ID:**	9MMDG110				
H-3	***1.10E-03***	U	8.3E-03	8.8E-03	2.01E-02	pCi/g	100%	*0.05*	9/19/11 10:51 p		102.0	LSC4
						9.58E-03	4.00E+02	*0.25*			g	

TestAmerica
rptSTLRchSample
V5.2.15 A2002

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FORM I

SAMPLE RESULTS

Date: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 8:35:00 AM
Lot-Sample No.:	J1I120446-3	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV88	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1256124	NI63_LSC			**Work Order:** MMDG11AE			**Report DB ID:** 9MMDG110					
NI-63	***6.15E-01***	U	5.0E+00	5.8E+00	1.22E+01	pCi/g	100%	*0.05*	9/22/11 01:38 p		0.25	LSC3
						5.74E+00	3.00E+01	*0.21*			g	
Batch: 1256126	C14_CHEM_LSC			**Work Order:** MMDG11AJ			**Report DB ID:** 9MMDG110					
C-14	***1.59E-01***	U	1.9E-01	2.0E-01	4.41E-01	pCi/g	100%	*0.36*	9/17/11 05:09 a		5.01	LSC3
						2.07E-01	5.00E+01	*(1.6)*			g	
Batch: 1256127	UISO_IE_PLATE_AEA			**Work Order:** MMDG11AC			**Report DB ID:** 9MMDG110					
U-234	***4.89E-01***		2.6E-01	2.9E-01	1.47E-01	pCi/g	63%	*(3.3)*	9/27/11 03:58 p		1.02	ALP9
						2.59E-02	1.00E+00	*(3.4)*			g	
U-235	***3.52E-02***	U	7.0E-02	7.1E-02	1.32E-01	pCi/g	63%	*0.27*	9/27/11 03:58 p		1.02	ALP9
						1.83E-02	1.00E+00	*0.99*			g	
U-238	***1.39E-01***	U	1.4E-01	1.4E-01	1.32E-01	pCi/g	63%	*(1.1)*	9/27/11 03:58 p		1.02	ALP9
						1.83E-02	1.00E+00	*(1.9)*			g	
								Ratio U-234/238 = 3.5				
Batch: 1256128	PUISO_PLATE_AEA			**Work Order:** MMDG11AF			**Report DB ID:** 9MMDG110					
PU-238	***-4.28E-03***	U	5.7E-02	5.7E-02	1.29E-01	pCi/g	95%	*-0.03*	9/26/11 11:00 a		1.01	ALP41
						2.57E-02	1.00E+00	*-0.15*			g	
PU239/40	***2.71E-02***	U	5.7E-02	5.7E-02	1.07E-01	pCi/g	95%	*0.25*	9/26/11 11:00 a		1.01	ALP41
						1.48E-02	1.00E+00	*0.94*			g	

No. of Results: 16 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.15 A2002

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FORM I

SAMPLE RESULTS

Date: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 8:40:00 AM
Lot-Sample No.:	J1I120446-4	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV89	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1255176	7196_CR6			**Work Order:**	MMDG21AA		**Report DB ID:**	9MMDG210				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/14/11 08:15 a		2.5012	
							1.55E-01	*N/A*			g	
Batch: 1256121	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MMDG21AD		**Report DB ID:**	9MMDG210				
STRONTIUM	***1.31E-01***	U	9.3E-02	9.9E-02	1.87E-01	pCi/g	63%	*0.7*	9/26/11 05:59 p		6.01	GPC32D
						8.71E-02		*(2.7)*			g	
Batch: 1256122	GAMMA_GS			**Work Order:**	MMDG21AH		**Report DB ID:**	9MMDG210				
AMERICIUM 241	***-4.71E-02***	U	1.6E-01	1.6E-01	2.77E-01	pCi/g		*-0.17*	9/15/11 09:57 a		391.5	GER13$1
								-0.57			g	
CO-60	***1.35E-03***	U	1.9E-02	1.9E-02	3.25E-02	pCi/g		*0.04*	9/15/11 09:57 a		391.5	GER13$1
							5.00E-02	*0.15*			g	
CS-137	***9.22E-03***	U	1.7E-02	1.7E-02	3.05E-02	pCi/g		*0.3*	9/15/11 09:57 a		391.5	GER13$1
							1.00E-01	*(1.1)*			g	
EU-152	***-1.31E-02***	U	4.4E-02	4.4E-02	7.49E-02	pCi/g		*-0.18*	9/15/11 09:57 a		391.5	GER13$1
							1.00E-01	*-0.6*			g	
EU-154	***4.47E-02***	U	5.8E-02	5.8E-02	1.06E-01	pCi/g		*0.42*	9/15/11 09:57 a		391.5	GER13$1
							1.00E-01	*(1.5)*			g	
EU-155	***3.08E-02***	U	5.4E-02	5.4E-02	9.33E-02	pCi/g		*0.33*	9/15/11 09:57 a		391.5	GER13$1
							1.00E-01	*(1.1)*			g	
Batch: 1256123	906.0_H3_LSC			**Work Order:**	MMDG21AG		**Report DB ID:**	9MMDG210				
H-3	***1.55E-02***	U	1.0E-02	1.1E-02	2.38E-02	pCi/g	100%	*0.65*	9/20/11 12:14 a		94.5	LSC4
						1.13E-02	4.00E+02	*(2.8)*			g	

TestAmerica
rptSTLRchSample
V5.2.15 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: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 8:40:00 AM
Lot-Sample No.:	J1I120446-4	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV89	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1256124	NI63_LSC			**Work Order:**	MMDG21AE		**Report DB ID:**	9MMDG210				
NI-63	***-1.99E+00***	U	4.9E+00	5.8E+00	1.25E+01	pCi/g	98%	*-0.16*	9/22/11 02:01 p		0.25	LSC3
						5.87E+00	3.00E+01	*-0.69*			g	
Batch: 1256126	C14_CHEM_LSC			**Work Order:**	MMDG21AJ		**Report DB ID:**	9MMDG210				
C-14	***1.58E-01***	U	1.9E-01	2.0E-01	4.38E-01	pCi/g	100%	*0.36*	9/17/11 05:55 a		5.042	LSC3
						2.06E-01	5.00E+01	*(1.6)*			g	
Batch: 1256127	UISO_IE_PLATE_AEA			**Work Order:**	MMDG21AC		**Report DB ID:**	9MMDG210				
U-234	***2.44E-01***		2.2E-01	2.3E-01	1.84E-01	pCi/g	50%	*(1.3)*	9/27/11 03:58 p		1.0	ALP10
						2.55E-02	1.00E+00	*(2.1)*			g	
U-235	***-4.88E-03***	U	9.9E-02	9.9E-02	2.06E-01	pCi/g	50%	*-0.02*	9/27/11 03:58 p		1.0	ALP10
						3.61E-02	1.00E+00	*-0.1*			g	
U-238	***3.92E-01***		2.8E-01	3.0E-01	1.84E-01	pCi/g	50%	*(2.1)*	9/27/11 03:58 p		1.0	ALP10
						2.55E-02	1.00E+00	*(2.7)*			g	
								Ratio U-234/238 = 0.6				
Batch: 1256128	PUISO_PLATE_AEA			**Work Order:**	MMDG21AF		**Report DB ID:**	9MMDG210				
PU-238	***0.00E+00***	U	0.0E+00	6.6E-02	1.23E-01	pCi/g	100%	*0.*	9/26/11 11:00 a		1.01	ALP42
						1.71E-02	1.00E+00	*0.*			g	
PU239/40	***3.11E-02***	U	6.6E-02	6.6E-02	1.23E-01	pCi/g	100%	*0.25*	9/26/11 11:00 a		1.01	ALP42
						1.71E-02	1.00E+00	*0.94*			g	

No. of Results: 16 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.15 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: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 8:50:00 AM
Lot-Sample No.:	J1I120446-5	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV90	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1255176	7196_CR6			**Work Order:**	MMDG31AA		**Report DB ID:**	9MMDG310				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/14/11 08:15 a		2.5015	
							1.55E-01	*N/A*			g	
Batch: 1256121	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MMDG31AD		**Report DB ID:**	9MMDG310				
STRONTIUM	***-1.80E-03***	U	7.0E-02	7.0E-02	1.68E-01	pCi/g	64%	*-0.01*	9/26/11 05:59 p		6.02	GPC31A
						7.78E-02		*-0.05*			g	
Batch: 1256122	GAMMA_GS			**Work Order:**	MMDG31AH		**Report DB ID:**	9MMDG310				
AMERICIUM 241	***-9.57E-02***	U	8.7E-02	8.7E-02	1.44E-01	pCi/g		*-0.66*	9/15/11 01:28 p		373.6	GER11$1
								-(2.2)			g	
CO-60	***5.26E-03***	U	1.5E-02	1.5E-02	2.71E-02	pCi/g		*0.19*	9/15/11 01:28 p		373.6	GER11$1
							5.00E-02	*0.71*			g	
CS-137	***1.05E-01***		4.0E-02	4.0E-02	2.31E-02	pCi/g		*(4.5)*	9/15/11 01:28 p		373.6	GER11$1
							1.00E-01	*(5.3)*			g	
EU-152	***-1.32E-02***	U	3.3E-02	3.3E-02	5.47E-02	pCi/g		*-0.24*	9/15/11 01:28 p		373.6	GER11$1
							1.00E-01	*-0.8*			g	
EU-154	***-3.26E-02***	U	4.9E-02	4.9E-02	8.04E-02	pCi/g		*-0.41*	9/15/11 01:28 p		373.6	GER11$1
							1.00E-01	*-(1.3)*			g	
EU-155	***1.24E-02***	U	4.0E-02	4.0E-02	6.76E-02	pCi/g		*0.18*	9/15/11 01:28 p		373.6	GER11$1
							1.00E-01	*0.62*			g	
Batch: 1256123	906.0_H3_LSC			**Work Order:**	MMDG31AG		**Report DB ID:**	9MMDG310				
H-3	***1.98E-02***		8.3E-03	8.8E-03	1.85E-02	pCi/g	100%	*(1.1)*	9/20/11 01:37 a		101.9	LSC4
						8.80E-03	4.00E+02	*(4.5)*			g	

TestAmerica
rptSTLRchSample
V5.2.15 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: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 8:50:00 AM
Lot-Sample No.:	J1I120446-5	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV90	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1256124	NI63_LSC			**Work Order:**	MMDG31AE		**Report DB ID:**	9MMDG310				
NI-63	***5.97E+00***	U	5.3E+00	6.2E+00	1.22E+01	pCi/g	100%	*0.49*	9/22/11 02:47 p		0.25	LSC3
						5.74E+00	3.00E+01	*(1.9)*			g	
Batch: 1256126	C14_CHEM_LSC			**Work Order:**	MMDG31AJ		**Report DB ID:**	9MMDG310				
C-14	***1.83E-01***	U	1.9E-01	2.0E-01	4.40E-01	pCi/g	100%	*0.41*	9/17/11 06:18 a		5.012	LSC3
						2.07E-01	5.00E+01	*(1.8)*			g	
Batch: 1256127	UISO_IE_PLATE_AEA			**Work Order:**	MMDG31AC		**Report DB ID:**	9MMDG310				
U-234	***2.48E-01***		1.7E-01	1.7E-01	1.03E-01	pCi/g	79%	*(2.4)*	9/27/11 03:58 p		1.02	ALP11
						1.43E-02	1.00E+00	*(2.9)*			g	
U-235	***0.00E+00***	U	0.0E+00	5.5E-02	1.03E-01	pCi/g	79%	*0.*	9/27/11 03:58 p		1.02	ALP11
						1.43E-02	1.00E+00	*0.*			g	
U-238	***3.25E-01***		1.9E-01	2.0E-01	1.32E-01	pCi/g	79%	*(2.5)*	9/27/11 03:58 p		1.02	ALP11
						2.87E-02	1.00E+00	*(3.2)*			g	
								Ratio U-234/238 = 0.8				
Batch: 1256128	PUISO_PLATE_AEA			**Work Order:**	MMDG31AF		**Report DB ID:**	9MMDG310				
PU-238	***-3.22E-03***	U	6.4E-02	6.4E-02	1.34E-01	pCi/g	90%	*-0.02*	9/26/11 11:01 a		0.99	ALP43
						2.37E-02	1.00E+00	*-0.1*			g	
PU239/40	***2.73E-02***	U	6.5E-02	6.5E-02	1.45E-01	pCi/g	90%	*0.19*	9/26/11 11:01 a		0.99	ALP43
						2.90E-02	1.00E+00	*0.84*			g	

No. of Results: 16 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.15 A2002

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FORM I

SAMPLE RESULTS

Date: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 8:55:00 AM
Lot-Sample No.:	J1I120446-6	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV91	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1255176	7196_CR6			**Work Order:**	MMDG41AA		**Report DB ID:**	9MMDG410				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/14/11 08:15 a		2.5019	
							1.55E-01	*N/A*			g	
Batch: 1256121	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MMDG41AD		**Report DB ID:**	9MMDG410				
STRONTIUM	***3.20E-02***	U	7.1E-02	7.2E-02	1.61E-01	pCi/g	63%	*0.2*	9/26/11 05:59 p		6.0	GPC31B
						7.44E-02		*0.89*			g	
Batch: 1256122	GAMMA_GS			**Work Order:**	MMDG41AH		**Report DB ID:**	9MMDG410				
AMERICIUM 241	***-2.19E-02***	U	4.2E-02	4.2E-02	6.83E-02	pCi/g		*-0.32*	9/15/11 01:28 p		381.3	GER14$1
								-(1.1)			g	
CO-60	***1.99E-02***	U	2.2E-02	2.2E-02	4.15E-02	pCi/g		*0.48*	9/15/11 01:28 p		381.3	GER14$1
							5.00E-02	*(1.8)*			g	
CS-137	***7.03E-03***	U	2.3E-02	2.3E-02	4.03E-02	pCi/g		*0.17*	9/15/11 01:28 p		381.3	GER14$1
							1.00E-01	*0.62*			g	
EU-152	***-2.15E-02***	U	6.8E-02	6.8E-02	9.70E-02	pCi/g		*-0.22*	9/15/11 01:28 p		381.3	GER14$1
							1.00E-01	*-0.63*			g	
EU-154	***-3.56E-02***	U	6.3E-02	6.3E-02	1.05E-01	pCi/g		*-0.34*	9/15/11 01:28 p		381.3	GER14$1
							1.00E-01	*-(1.1)*			g	
EU-155	***3.28E-03***	U	5.7E-02	5.7E-02	9.64E-02	pCi/g		*0.03*	9/15/11 01:28 p		381.3	GER14$1
							1.00E-01	*0.12*			g	
Batch: 1256123	906.0_H3_LSC			**Work Order:**	MMDG41AG		**Report DB ID:**	9MMDG410				
H-3	***6.31E-02***		9.9E-03	1.0E-02	1.85E-02	pCi/g	100%	*(3.4)*	9/20/11 04:23 a		89.6	LSC4
						8.84E-03	4.00E+02	*(12.)*			g	

TestAmerica
rptSTLRchSample
V5.2.15 A2002

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FORM I

SAMPLE RESULTS

Date: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 8:55:00 AM
Lot-Sample No.:	J1I120446-6	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV91	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1256124	NI63_LSC			**Work Order:**	MMDG41AE		**Report DB ID:**	9MMDG410				
NI-63	***5.79E-01***	U	5.0E+00	5.8E+00	1.23E+01	pCi/g	100%	*0.05*	9/22/11 03:10 p		0.25	LSC3
						5.77E+00	3.00E+01	*0.2*			g	
Batch: 1256126	C14_CHEM_LSC			**Work Order:**	MMDG41AJ		**Report DB ID:**	9MMDG410				
C-14	***1.60E-01***	U	1.9E-01	2.0E-01	4.42E-01	pCi/g	100%	*0.36*	9/17/11 06:41 a		4.999	LSC3
						2.08E-01	5.00E+01	*(1.6)*			g	
Batch: 1256127	UISO_IE_PLATE_AEA			**Work Order:**	MMDG41AC		**Report DB ID:**	9MMDG410				
U-234	***1.82E-01***		1.5E-01	1.6E-01	1.40E-01	pCi/g	74%	*(1.3)*	9/27/11 03:58 p		1.0	ALP12
						2.80E-02	1.00E+00	*(2.3)*			g	
U-235	***3.11E-02***	U	6.2E-02	6.3E-02	1.16E-01	pCi/g	74%	*0.27*	9/27/11 03:58 p		1.0	ALP12
						1.62E-02	1.00E+00	*0.99*			g	
U-238	***5.90E-02***	U	8.8E-02	8.9E-02	1.30E-01	pCi/g	74%	*0.45*	9/27/11 03:58 p		1.0	ALP12
						2.29E-02	1.00E+00	*(1.3)*			g	
								Ratio U-234/238 = 3.1				
Batch: 1256128	PUISO_PLATE_AEA			**Work Order:**	MMDG41AF		**Report DB ID:**	9MMDG410				
PU-238	***0.00E+00***	U	0.0E+00	6.8E-02	1.27E-01	pCi/g	100%	*0.*	9/26/11 11:01 a		1.0	ALP44
						1.76E-02	1.00E+00	*0.*			g	
PU239/40	***3.37E-02***	U	6.8E-02	6.8E-02	1.26E-01	pCi/g	100%	*0.27*	9/26/11 11:01 a		1.0	ALP44
						1.76E-02	1.00E+00	*0.99*			g	

No. of Results: 16 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.15 A2002

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FORM I

SAMPLE RESULTS

Date: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 1:30:00 PM
Lot-Sample No.:	J1I120446-7	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV92	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1255176	7196_CR6			**Work Order:** MMDG51AA			**Report DB ID:** 9MMDG510					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/14/11 08:15 a		2.5023	
							1.55E-01	*N/A*			g	
Batch: 1256121	SRTOT_SEP_PRECIP_GPC			**Work Order:** MMDG51AD			**Report DB ID:** 9MMDG510					
STRONTIUM	***8.34E-02***	U	7.7E-02	8.0E-02	1.60E-01	pCi/g	63%	*0.52*	9/26/11 05:59 p		6.0	GPC31D
						7.39E-02		*(2.1)*			g	
Batch: 1256122	GAMMA_GS			**Work Order:** MMDG51AH			**Report DB ID:** 9MMDG510					
AMERICIUM 241	***-3.60E-02***	U	8.7E-02	8.7E-02	1.45E-01	pCi/g		*-0.25*	9/15/11 01:29 p		353.6	GER10$1
								-0.83			g	
CO-60	***-3.39E-03***	U	1.8E-02	1.8E-02	3.06E-02	pCi/g		*-0.11*	9/15/11 01:29 p		353.6	GER10$1
							5.00E-02	*-0.38*			g	
CS-137	***1.18E-02***	U	1.9E-02	1.9E-02	3.36E-02	pCi/g		*0.35*	9/15/11 01:29 p		353.6	GER10$1
							1.00E-01	*(1.2)*			g	
EU-152	***-5.28E-02***	U	9.4E-02	9.4E-02	8.75E-02	pCi/g		*-0.6*	9/15/11 01:29 p		353.6	GER10$1
							1.00E-01	*-(1.1)*			g	
EU-154	***-7.26E-03***	U	5.9E-02	5.9E-02	1.01E-01	pCi/g		*-0.07*	9/15/11 01:29 p		353.6	GER10$1
							1.00E-01	*-0.25*			g	
EU-155	***-1.09E-02***	U	6.5E-02	6.5E-02	1.08E-01	pCi/g		*-0.1*	9/15/11 01:29 p		353.6	GER10$1
							1.00E-01	*-0.34*			g	
Batch: 1256123	906.0_H3_LSC			**Work Order:** MMDG51AG			**Report DB ID:** 9MMDG510					
H-3	***2.20E-02***	U	1.1E-02	1.1E-02	2.37E-02	pCi/g	100%	*0.93*	9/20/11 05:46 a		103.3	LSC4
						1.13E-02	4.00E+02	*(3.9)*			g	

TestAmerica
rptSTLRchSample
V5.2.15 A2002

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FORM I

SAMPLE RESULTS

Date: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 1:30:00 PM
Lot-Sample No.:	J1I120446-7	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV92	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1256124	NI63_LSC			**Work Order:**	MMDG51AE		**Report DB ID:**	9MMDG510				
NI-63	***1.72E+00***	U	5.0E+00	5.9E+00	1.22E+01	pCi/g	100%	*0.14*	9/22/11 03:33 p		0.25	LSC3
						5.74E+00	3.00E+01	*0.58*			g	
Batch: 1256126	C14_CHEM_LSC			**Work Order:**	MMDG51AJ		**Report DB ID:**	9MMDG510				
C-14	***2.12E-01***	U	1.9E-01	2.1E-01	4.39E-01	pCi/g	100%	*0.48*	9/17/11 07:04 a		5.027	LSC3
						2.07E-01	5.00E+01	*(2.1)*			g	
Batch: 1256127	UISO_IE_PLATE_AEA			**Work Order:**	MMDG51AC		**Report DB ID:**	9MMDG510				
U-234	***8.27E-02***	U	1.8E-01	1.8E-01	3.62E-01	pCi/g	27%	*0.23*	9/27/11 05:38 p		1.0	ALP71
						5.92E-02	1.00E+00	*0.91*			g	
U-235	***-5.40E-03***	U	1.8E-01	1.8E-01	3.46E-01	pCi/g	27%	*-0.02*	9/27/11 05:38 p		1.0	ALP71
						5.12E-02	1.00E+00	*-0.06*			g	
U-238	***8.45E-02***	U	1.8E-01	1.8E-01	3.46E-01	pCi/g	27%	*0.24*	9/27/11 05:38 p		1.0	ALP71
						5.12E-02	1.00E+00	*0.93*			g	
								Ratio U-234/238 = 1.0				
Batch: 1256128	PUISO_PLATE_AEA			**Work Order:**	MMDG51AF		**Report DB ID:**	9MMDG510				
PU-238	***0.00E+00***	U	0.0E+00	5.8E-02	1.08E-01	pCi/g	100%	*0.*	9/26/11 11:01 a		1.01	ALP121
						1.50E-02	1.00E+00	*0.*			g	
PU239/40	***0.00E+00***	U	0.0E+00	5.8E-02	1.08E-01	pCi/g	100%	*0.*	9/26/11 11:01 a		1.01	ALP121
						1.50E-02	1.00E+00	*0.*			g	

No. of Results: 16 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.15 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: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 1:40:00 PM
Lot-Sample No.:	J1I120446-8	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV93	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1255176	7196_CR6			**Work Order:**	MMDG61AA		**Report DB ID:**	9MMDG610				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/14/11 08:15 a		2.5033	
							1.55E-01	*N/A*			g	
Batch: 1256121	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MMDG61AD		**Report DB ID:**	9MMDG610				
STRONTIUM	***1.97E-02***	U	7.3E-02	7.4E-02	1.69E-01	pCi/g	66%	*0.12*	9/26/11 06:02 p		6.01	GPC27B
						7.89E-02		*0.54*			g	
Batch: 1256122	GAMMA_GS			**Work Order:**	MMDG61AH		**Report DB ID:**	9MMDG610				
AMERICIUM 241	***-2.41E-01***	U	1.8E-01	1.8E-01	2.80E-01	pCi/g		*-0.86*	9/15/11 01:30 p		371.9	GER13$1
								-(2.7)			g	
CO-60	***-5.74E-03***	U	1.9E-02	1.9E-02	3.19E-02	pCi/g		*-0.18*	9/15/11 01:30 p		371.9	GER13$1
							5.00E-02	*-0.61*			g	
CS-137	***2.11E-02***	U	1.8E-02	1.8E-02	3.33E-02	pCi/g		*0.63*	9/15/11 01:30 p		371.9	GER13$1
							1.00E-01	*(2.3)*			g	
EU-152	***1.43E-02***	U	4.7E-02	4.7E-02	8.11E-02	pCi/g		*0.18*	9/15/11 01:30 p		371.9	GER13$1
							1.00E-01	*0.61*			g	
EU-154	***2.12E-02***	U	6.1E-02	6.1E-02	1.08E-01	pCi/g		*0.2*	9/15/11 01:30 p		371.9	GER13$1
							1.00E-01	*0.69*			g	
EU-155	***6.79E-03***	U	5.5E-02	5.5E-02	9.53E-02	pCi/g		*0.07*	9/15/11 01:30 p		371.9	GER13$1
							1.00E-01	*0.25*			g	
Batch: 1256123	906.0_H3_LSC			**Work Order:**	MMDG61AG		**Report DB ID:**	9MMDG610				
H-3	***1.39E-02***	U	8.3E-03	8.8E-03	1.90E-02	pCi/g	100%	*0.73*	9/20/11 07:09 a		107.2	LSC4
						9.08E-03	4.00E+02	*(3.1)*			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: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 1:40:00 PM
Lot-Sample No.:	J1I120446-8	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV93	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1256124	NI63_LSC			**Work Order:** MMDG61AE			**Report DB ID:** 9MMDG610					
NI-63	***-4.61E+00***	U	4.8E+00	5.7E+00	1.27E+01	pCi/g	97%	*-0.36*	9/22/11 03:56 p		0.25	LSC3
						5.95E+00	3.00E+01	*-(1.6)*			g	
Batch: 1256126	C14_CHEM_LSC			**Work Order:** MMDG61AJ			**Report DB ID:** 9MMDG610					
C-14	***3.97E-01***	U	2.0E-01	2.2E-01	4.41E-01	pCi/g	100%	*0.9*	9/17/11 07:26 a		5.001	LSC3
						2.07E-01	5.00E+01	*(3.7)*			g	
Batch: 1256127	UISO_IE_PLATE_AEA			**Work Order:** MMDG61AC			**Report DB ID:** 9MMDG610					
U-234	***3.05E-01***		1.9E-01	2.0E-01	1.13E-01	pCi/g	109%	*(2.7)*	9/27/11 03:59 p		1.0	ALP84
						1.84E-02	1.00E+00	*(3.1)*			g	
U-235	***5.42E-02***	U	7.9E-02	8.0E-02	1.08E-01	pCi/g	109%	*0.5*	9/27/11 03:59 p		1.0	ALP84
						1.59E-02	1.00E+00	*(1.4)*			g	
U-238	***1.60E-01***		1.4E-01	1.4E-01	1.45E-01	pCi/g	109%	*(1.1)*	9/27/11 03:59 p		1.0	ALP84
						3.44E-02	1.00E+00	*(2.3)*			g	
							Ratio U-234/238 = 1.9					
Batch: 1256128	PUISO_PLATE_AEA			**Work Order:** MMDG61AF			**Report DB ID:** 9MMDG610					
PU-238	***3.28E-02***	U	6.6E-02	6.6E-02	1.23E-01	pCi/g	88%	*0.27*	9/26/11 11:01 a		0.99	ALP125
						1.71E-02	1.00E+00	*0.99*			g	
PU239/40	***0.00E+00***	U	0.0E+00	6.6E-02	1.23E-01	pCi/g	88%	*0.*	9/26/11 11:01 a		0.99	ALP125
						1.71E-02	1.00E+00	*0.*			g	

No. of Results: 16 **Comments:**

TestAmerica
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V5.2.15 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: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 1:50:00 AM
Lot-Sample No.:	J1I120446-9	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV94	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1255176	7196_CR6			**Work Order:**	MMDG71AA		**Report DB ID:** 9MMDG710					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/14/11 08:15 a		2.5031	
							1.55E-01	*N/A*			g	
Batch: 1256121	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MMDG71AD		**Report DB ID:** 9MMDG710					
STRONTIUM	***4.27E-02***	U	8.0E-02	8.1E-02	1.78E-01	pCi/g	67%	*0.24*	9/26/11 06:21 p		6.02	GPC26A
						8.34E-02		*(1.1)*			g	
Batch: 1256122	GAMMA_GS			**Work Order:**	MMDG71AH		**Report DB ID:** 9MMDG710					
AMERICIUM 241	***3.06E-02***	U	9.6E-02	9.6E-02	1.70E-01	pCi/g		*0.18*	9/15/11 04:57 p		352.4	GER11$1
								0.64			g	
CO-60	***9.80E-03***	U	1.4E-02	1.4E-02	2.65E-02	pCi/g		*0.37*	9/15/11 04:57 p		352.4	GER11$1
							5.00E-02	*(1.4)*			g	
CS-137	***2.02E-02***	U	1.8E-02	1.8E-02	3.13E-02	pCi/g		*0.65*	9/15/11 04:57 p		352.4	GER11$1
							1.00E-01	*(2.3)*			g	
EU-152	***2.61E-03***	U	3.5E-02	3.5E-02	5.99E-02	pCi/g		*0.04*	9/15/11 04:57 p		352.4	GER11$1
							1.00E-01	*0.15*			g	
EU-154	***-3.39E-02***	U	5.2E-02	5.2E-02	8.64E-02	pCi/g		*-0.39*	9/15/11 04:57 p		352.4	GER11$1
							1.00E-01	*-(1.3)*			g	
EU-155	***4.22E-02***	U	4.3E-02	4.3E-02	7.42E-02	pCi/g		*0.57*	9/15/11 04:57 p		352.4	GER11$1
							1.00E-01	*(2.)*			g	
Batch: 1256123	906.0_H3_LSC			**Work Order:**	MMDG71AG		**Report DB ID:** 9MMDG710					
H-3	***1.61E-02***	U	8.6E-03	9.1E-03	1.95E-02	pCi/g	100%	*0.83*	9/20/11 08:32 a		109.0	LSC4
						9.28E-03	4.00E+02	*(3.6)*			g	

TestAmerica
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V5.2.15 A2002

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FORM I

SAMPLE RESULTS

Date: 29-Sep-11

Lab Name:	TestAmerica	SDG:	J01273	Collection Date:	9/8/2011 1:50:00 AM
Lot-Sample No.:	J1I120446-9	Report No. :	48592	Received Date:	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV94	COC No. :	RC-075-259	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1256124	NI63_LSC			Work Order:	MMDG71AE		Report DB ID: 9MMDG710					
NI-63	***1.16E+00***	U	5.0E+00	5.9E+00	1.22E+01	pCi/g	100%	*0.09*	9/22/11 04:19 p		0.25	LSC3
						5.74E+00	3.00E+01	*0.4*			g	
Batch: 1256126	C14_CHEM_LSC			Work Order:	MMDG71AJ		Report DB ID: 9MMDG710					
C-14	***2.17E-01***	U	1.9E-01	2.1E-01	4.41E-01	pCi/g	100%	*0.49*	9/17/11 07:49 a		5.002	LSC3
						2.07E-01	5.00E+01	*(2.1)*			g	
Batch: 1256127	UISO_IE_PLATE_AEA			Work Order:	MMDG71AC		Report DB ID: 9MMDG710					
U-234	***1.85E-01***		1.4E-01	1.4E-01	1.38E-01	pCi/g	102%	*(1.3)*	9/27/11 05:38 p		1.0	ALP3
						3.59E-02	1.00E+00	*(2.6)*			g	
U-235	***-1.22E-02***	U	4.9E-02	4.9E-02	1.46E-01	pCi/g	102%	*-0.08*	9/27/11 05:38 p		1.0	ALP3
						4.01E-02	1.00E+00	*-0.49*			g	
U-238	***2.12E-01***		1.5E-01	1.5E-01	1.28E-01	pCi/g	102%	*(1.7)*	9/27/11 05:38 p		1.0	ALP3
						3.11E-02	1.00E+00	*(2.8)*			g	
								Ratio U-234/238 = 0.9				
Batch: 1256128	PUISO_PLATE_AEA			Work Order:	MMDG71AF		Report DB ID: 9MMDG710					
PU-238	***0.00E+00***	U	0.0E+00	7.2E-02	1.34E-01	pCi/g	100%	*0.*	9/26/11 11:02 a		1.02	ALP128
						1.86E-02	1.00E+00	*0.*			g	
PU239/40	***-1.79E-03***	U	7.2E-02	7.2E-02	1.34E-01	pCi/g	100%	*-0.01*	9/26/11 11:02 a		1.02	ALP128
						1.86E-02	1.00E+00	*-0.05*			g	

No. of Results: 16 Comments:

TestAmerica
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V5.2.15 A2002

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FORM I

SAMPLE RESULTS

Date: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 2:05:00 PM
Lot-Sample No.:	J1I120446-10	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV95	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1255176	7196_CR6			**Work Order:**	MMDG81AA		**Report DB ID:**	9MMDG810				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/14/11 08:15 a		2.5032	
							1.55E-01	*N/A*			g	
Batch: 1256121	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MMDG81AD		**Report DB ID:**	9MMDG810				
STRONTIUM	***8.55E-04***	U	7.2E-02	7.2E-02	1.70E-01	pCi/g	66%	*0.01*	9/26/11 06:21 p		6.01	GPC26B
						7.95E-02		*0.02*			g	
Batch: 1256122	GAMMA_GS			**Work Order:**	MMDG81AH		**Report DB ID:**	9MMDG810				
AMERICIUM 241	***-4.37E-02***	U	4.8E-02	4.8E-02	7.68E-02	pCi/g		*-0.57*	9/15/11 04:58 p		355.0	GER14$1
								-(1.8)			g	
CO-60	***-1.15E-02***	U	2.3E-02	2.3E-02	3.93E-02	pCi/g		*-0.29*	9/15/11 04:58 p		355.0	GER14$1
							5.00E-02	*-0.98*			g	
CS-137	***4.41E-02***	U	2.8E-02	2.8E-02	5.10E-02	pCi/g		*0.87*	9/15/11 04:58 p		355.0	GER14$1
							1.00E-01	*(3.2)*			g	
EU-152	***6.06E-03***	U	6.9E-02	6.9E-02	1.09E-01	pCi/g		*0.06*	9/15/11 04:58 p		355.0	GER14$1
							1.00E-01	*0.18*			g	
EU-154	***-1.50E-02***	U	7.1E-02	7.1E-02	1.22E-01	pCi/g		*-0.12*	9/15/11 04:58 p		355.0	GER14$1
							1.00E-01	*-0.42*			g	
EU-155	***-7.48E-03***	U	6.3E-02	6.3E-02	1.06E-01	pCi/g		*-0.07*	9/15/11 04:58 p		355.0	GER14$1
							1.00E-01	*-0.24*			g	
Batch: 1256123	906.0_H3_LSC			**Work Order:**	MMDG81AG		**Report DB ID:**	9MMDG810				
H-3	***1.56E-02***	U	1.3E-02	1.4E-02	3.10E-02	pCi/g	100%	*0.5*	9/20/11 09:55 a		91.1	LSC4
						1.48E-02	4.00E+02	*(2.2)*			g	

TestAmerica
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V5.2.15 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: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 2:05:00 PM
Lot-Sample No.:	J1I120446-10	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV95	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1256124	NI63_LSC			**Work Order:**	MMDG81AE		**Report DB ID:**	9MMDG810				
NI-63	***-1.55E+00***	U	4.8E+00	5.7E+00	1.22E+01	pCi/g	100%	*-0.13*	9/22/11 04:42 p		0.25	LSC3
						5.73E+00	3.00E+01	*-0.55*			g	
Batch: 1256126	C14_CHEM_LSC			**Work Order:**	MMDG81AJ		**Report DB ID:**	9MMDG810				
C-14	***1.68E-01***	U	1.9E-01	2.0E-01	4.40E-01	pCi/g	100%	*0.38*	9/17/11 08:12 a		5.02	LSC3
						2.07E-01	5.00E+01	*(1.7)*			g	
Batch: 1256127	UISO_IE_PLATE_AEA			**Work Order:**	MMDG81AC		**Report DB ID:**	9MMDG810				
U-234	***1.55E-01***		1.3E-01	1.3E-01	1.48E-01	pCi/g	97%	*(1.)*	9/27/11 05:38 p		1.03	ALP4
						4.15E-02	1.00E+00	*(2.4)*			g	
U-235	***2.16E-02***	U	4.8E-02	4.8E-02	1.01E-01	pCi/g	97%	*0.22*	9/27/11 05:38 p		1.03	ALP4
						1.77E-02	1.00E+00	*0.89*			g	
U-238	***1.84E-01***		1.4E-01	1.4E-01	1.31E-01	pCi/g	97%	*(1.4)*	9/27/11 05:38 p		1.03	ALP4
						3.31E-02	1.00E+00	*(2.6)*			g	
								Ratio U-234/238 = 0.8				
Batch: 1256128	PUISO_PLATE_AEA			**Work Order:**	MMDG81AF		**Report DB ID:**	9MMDG810				
PU-238	***0.00E+00***	U	0.0E+00	7.7E-02	1.43E-01	pCi/g	92%	*0.*	9/26/11 11:02 a		1.0	ALP130
						1.99E-02	1.00E+00	*0.*			g	
PU239/40	***3.82E-02***	U	7.7E-02	7.7E-02	1.43E-01	pCi/g	92%	*0.27*	9/26/11 11:02 a		1.0	ALP130
						1.99E-02	1.00E+00	*0.99*			g	

No. of Results: 16 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.15 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: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 2:20:00 PM
Lot-Sample No.:	J1I120446-11	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV96	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1255176	7196_CR6			**Work Order:** MMDG91AA			**Report DB ID:** 9MMDG910					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/14/11 08:15 a		2.5092	
							1.55E-01	*N/A*			g	
Batch: 1256121	SRTOT_SEP_PRECIP_GPC			**Work Order:** MMDG91AD			**Report DB ID:** 9MMDG910					
STRONTIUM	***-3.61E-02***	U	6.0E-02	6.1E-02	1.55E-01	pCi/g	70%	*-0.23*	9/26/11 06:21 p		6.0	GPC26C
						7.20E-02		*-(1.2)*			g	
Batch: 1256122	GAMMA_GS			**Work Order:** MMDG91AH			**Report DB ID:** 9MMDG910					
AMERICIUM 241	***2.37E-03***	U	6.9E-02	6.9E-02	1.17E-01	pCi/g		*0.02*	9/15/11 04:59 p		381.1	GER7$1
								0.07			g	
CO-60	***-1.96E-02***	U	2.0E-02	2.0E-02	3.16E-02	pCi/g		*-0.62*	9/15/11 04:59 p		381.1	GER7$1
							5.00E-02	*-(2.)*			g	
CS-137	***1.63E-02***	U	2.2E-02	2.2E-02	3.97E-02	pCi/g		*0.41*	9/15/11 04:59 p		381.1	GER7$1
							1.00E-01	*(1.5)*			g	
EU-152	***-1.99E-02***	U	5.3E-02	5.3E-02	8.76E-02	pCi/g		*-0.23*	9/15/11 04:59 p		381.1	GER7$1
							1.00E-01	*-0.75*			g	
EU-154	***-4.14E-03***	U	6.7E-02	6.7E-02	1.16E-01	pCi/g		*-0.04*	9/15/11 04:59 p		381.1	GER7$1
							1.00E-01	*-0.12*			g	
EU-155	***-1.55E-02***	U	5.1E-02	5.1E-02	8.69E-02	pCi/g		*-0.18*	9/15/11 04:59 p		381.1	GER7$1
							1.00E-01	*-0.61*			g	
Batch: 1256123	906.0_H3_LSC			**Work Order:** MMDG91AG			**Report DB ID:** 9MMDG910					
H-3	***9.23E-03***	U	8.1E-03	8.7E-03	1.90E-02	pCi/g	100%	*0.49*	9/20/11 12:41 p		108.7	LSC4
						9.07E-03	4.00E+02	*(2.1)*			g	

TestAmerica
rptSTLRchSample
V5.2.15 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: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 2:20:00 PM
Lot-Sample No.:	J1I120446-11	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV96	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1256124	NI63_LSC			**Work Order:**	MMDG91AE		**Report DB ID:**	9MMDG910				
NI-63	***2.83E+00***	U	5.1E+00	6.0E+00	1.24E+01	pCi/g	99%	*0.23*	9/22/11 05:28 p		0.25	LSC3
						5.79E+00	3.00E+01	*0.94*			g	
Batch: 1256126	C14_CHEM_LSC			**Work Order:**	MMDG91AJ		**Report DB ID:**	9MMDG910				
C-14	***4.42E-01***		2.0E-01	2.2E-01	4.40E-01	pCi/g	100%	*(1.)*	9/17/11 08:58 a		5.016	LSC3
						2.07E-01	5.00E+01	*(4.)*			g	
Batch: 1256127	UISO_IE_PLATE_AEA			**Work Order:**	MMDG91AC		**Report DB ID:**	9MMDG910				
U-234	***1.70E-01***		1.5E-01	1.6E-01	1.27E-01	pCi/g	69%	*(1.3)*	9/27/11 05:38 p		1.0	ALP8
						1.77E-02	1.00E+00	*(2.2)*			g	
U-235	***0.00E+00***	U	0.0E+00	6.8E-02	1.27E-01	pCi/g	69%	*0.*	9/27/11 05:38 p		1.0	ALP8
						1.77E-02	1.00E+00	*0.*			g	
U-238	***3.39E-01***		2.1E-01	2.3E-01	1.27E-01	pCi/g	69%	*(2.7)*	9/27/11 05:38 p		1.0	ALP8
						1.77E-02	1.00E+00	*(3.)*			g	
							Ratio U-234/238 = 0.5					
Batch: 1256128	PUISO_PLATE_AEA			**Work Order:**	MMDG91AF		**Report DB ID:**	9MMDG910				
PU-238	***-4.25E-03***	U	5.7E-02	5.7E-02	1.28E-01	pCi/g	100%	*-0.03*	9/26/11 12:21 p		1.01	ALP38
						2.55E-02	1.00E+00	*-0.15*			g	
PU239/40	***-1.42E-03***	U	5.7E-02	5.7E-02	1.06E-01	pCi/g	100%	*-0.01*	9/26/11 12:21 p		1.01	ALP38
						1.47E-02	1.00E+00	*-0.05*			g	

No. of Results: 16 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.15 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: 29-Sep-11

Lab Name:	TestAmerica	SDG:	J01273	Collection Date:	9/8/2011 2:30:00 PM
Lot-Sample No.:	J1I120446-12	Report No. :	48592	Received Date:	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV97	COC No. :	RC-075-259	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1255176	7196_CR6			Work Order:	MMDHC1AA		Report DB ID: 9MMDHC10					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/14/11 08:15 a		2.5019	
							1.55E-01	*N/A*			g	
Batch: 1256121	SRTOT_SEP_PRECIP_GPC			Work Order:	MMDHC1AD		Report DB ID: 9MMDHC10					
STRONTIUM	***5.46E-02***	U	7.3E-02	7.4E-02	1.58E-01	pCi/g	67%	*0.35*	9/26/11 06:21 p		6.01	GPC26D
						7.30E-02		*(1.5)*			g	
Batch: 1256122	GAMMA_GS			Work Order:	MMDHC1AH		Report DB ID: 9MMDHC10					
AMERICIUM 241	***-5.38E-02***	U	7.2E-02	7.2E-02	1.19E-01	pCi/g		*-0.45*	9/15/11 04:59 p		403.1	GER10$1
								-(1.5)			g	
CO-60	***1.48E-02***	U	1.6E-02	1.6E-02	2.96E-02	pCi/g		*0.5*	9/15/11 04:59 p		403.1	GER10$1
							5.00E-02	*(1.8)*			g	
CS-137	***2.70E-02***	U	1.8E-02	1.8E-02	3.18E-02	pCi/g		*0.85*	9/15/11 04:59 p		403.1	GER10$1
							1.00E-01	*(3.1)*			g	
EU-152	***-2.68E-02***	U	7.0E-02	7.0E-02	7.71E-02	pCi/g		*-0.35*	9/15/11 04:59 p		403.1	GER10$1
							1.00E-01	*-0.76*			g	
EU-154	***-3.24E-02***	U	4.9E-02	4.9E-02	8.10E-02	pCi/g		*-0.4*	9/15/11 04:59 p		403.1	GER10$1
							1.00E-01	*-(1.3)*			g	
EU-155	***-1.17E-02***	U	5.4E-02	5.4E-02	9.03E-02	pCi/g		*-0.13*	9/15/11 04:59 p		403.1	GER10$1
							1.00E-01	*-0.43*			g	
Batch: 1256123	906.0_H3_LSC			Work Order:	MMDHC1AG		Report DB ID: 9MMDHC10					
H-3	***1.55E-02***	U	8.4E-03	9.0E-03	1.91E-02	pCi/g	100%	*0.81*	9/20/11 02:04 p		129.1	LSC4
						9.11E-03	4.00E+02	*(3.5)*			g	

TestAmerica
rptSTLRchSample
V5.2.15 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: 29-Sep-11

Lab Name:	TestAmerica	SDG:	J01273	Collection Date:	9/8/2011 2:30:00 PM
Lot-Sample No.:	J1I120446-12	Report No. :	48592	Received Date:	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV97	COC No. :	RC-075-259	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1256124	NI63_LSC			Work Order:	MMDHC1AE		Report DB ID: 9MMDHC10					
NI-63	***3.01E+00***	U	5.1E+00	6.0E+00	1.22E+01	pCi/g	100%	*0.25*	9/22/11 05:51 p		0.25	LSC3
						5.74E+00	3.00E+01	*(1.)*			g	
Batch: 1256126	C14_CHEM_LSC			Work Order:	MMDHC1AJ		Report DB ID: 9MMDHC10					
C-14	***3.32E-01***	U	1.9E-01	2.1E-01	4.39E-01	pCi/g	100%	*0.76*	9/17/11 09:20 a		5.035	LSC3
						2.06E-01	5.00E+01	*(3.1)*			g	
Batch: 1256127	UISO_IE_PLATE_AEA			Work Order:	MMDHC1AC		Report DB ID: 9MMDHC10					
U-234	***6.42E-02***	U	9.3E-02	9.4E-02	1.23E-01	pCi/g	69%	*0.52*	9/27/11 05:39 p		1.0	ALP9
						1.71E-02	1.00E+00	*(1.4)*			g	
U-235	***0.00E+00***	U	0.0E+00	6.6E-02	1.23E-01	pCi/g	69%	*0.*	9/27/11 05:39 p		1.0	ALP9
						1.71E-02	1.00E+00	*0.*			g	
U-238	***1.97E-01***		1.6E-01	1.7E-01	1.23E-01	pCi/g	69%	*(1.6)*	9/27/11 05:39 p		1.0	ALP9
						1.71E-02	1.00E+00	*(2.4)*			g	
								Ratio U-234/238 = 0.3				
Batch: 1256128	PUISO_PLATE_AEA			Work Order:	MMDHC1AF		Report DB ID: 9MMDHC10					
PU-238	***-1.81E-03***	U	7.2E-02	7.2E-02	1.36E-01	pCi/g	85%	*-0.01*	9/26/11 12:21 p		1.01	ALP39
						1.88E-02	1.00E+00	*-0.05*			g	
PU239/40	***-3.62E-03***	U	7.3E-02	7.3E-02	1.51E-01	pCi/g	85%	*-0.02*	9/26/11 12:21 p		1.01	ALP39
						2.66E-02	1.00E+00	*-0.1*			g	

No. of Results: 16 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.15 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: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 8:15:00 AM
Lot-Sample No.:	J1I120446-13	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV98	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1255176	7196_CR6			**Work Order:**	MMDHD1AA		**Report DB ID:**	9MMDHD10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/14/11 08:15 a		2.5038	
							1.55E-01	*N/A*			g	
Batch: 1256121	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MMDHD1AD		**Report DB ID:**	9MMDHD10				
STRONTIUM	***3.20E-02***	U	7.0E-02	7.0E-02	1.57E-01	pCi/g	68%	*0.2*	9/26/11 07:02 p		6.03	GPC31A
						7.28E-02		*0.91*			g	
Batch: 1256122	GAMMA_GS			**Work Order:**	MMDHD1AH		**Report DB ID:**	9MMDHD10				
AMERICIUM 241	***2.62E-02***	U	1.5E-01	1.5E-01	2.56E-01	pCi/g		*0.1*	9/15/11 05:00 p		401.9	GER13$1
								0.35			g	
CO-60	***-1.84E-02***	U	1.8E-02	1.8E-02	2.89E-02	pCi/g		*-0.64*	9/15/11 05:00 p		401.9	GER13$1
							5.00E-02	*-(2.)*			g	
CS-137	***1.04E-02***	U	1.7E-02	1.7E-02	3.09E-02	pCi/g		*0.34*	9/15/11 05:00 p		401.9	GER13$1
							1.00E-01	*(1.2)*			g	
EU-152	***-2.73E-02***	U	4.3E-02	4.3E-02	7.18E-02	pCi/g		*-0.38*	9/15/11 05:00 p		401.9	GER13$1
							1.00E-01	*-(1.3)*			g	
EU-154	***-1.89E-02***	U	5.2E-02	5.2E-02	8.83E-02	pCi/g		*-0.21*	9/15/11 05:00 p		401.9	GER13$1
							1.00E-01	*-0.73*			g	
EU-155	***1.82E-02***	U	5.1E-02	5.1E-02	8.83E-02	pCi/g		*0.21*	9/15/11 05:00 p		401.9	GER13$1
							1.00E-01	*0.72*			g	
Batch: 1256123	906.0_H3_LSC			**Work Order:**	MMDHD1AG		**Report DB ID:**	9MMDHD10				
H-3	***1.33E-02***	U	8.4E-03	8.9E-03	1.91E-02	pCi/g	100%	*0.7*	9/20/11 03:27 p		109.4	LSC4
						9.13E-03	4.00E+02	*(3.)*			g	

TestAmerica
rptSTLRchSample
V5.2.15 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: 29-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 8:15:00 AM
Lot-Sample No.:	J1I120446-13	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV98	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1256124	NI63_LSC			**Work Order:**	MMDHD1AE		**Report DB ID:**	9MMDHD10				
NI-63	***-1.43E-01***	U	5.0E+00	5.9E+00	1.25E+01	pCi/g	98%	*-0.01*	9/22/11 06:13 p		0.25	LSC3
						5.86E+00	3.00E+01	*-0.05*			g	
Batch: 1256126	C14_CHEM_LSC			**Work Order:**	MMDHD1AJ		**Report DB ID:**	9MMDHD10				
C-14	***2.81E-01***	U	1.9E-01	2.1E-01	4.42E-01	pCi/g	100%	*0.64*	9/17/11 09:43 a		5.0	LSC3
						2.08E-01	5.00E+01	*(2.7)*			g	
Batch: 1256127	UISO_IE_PLATE_AEA			**Work Order:**	MMDHD1AC		**Report DB ID:**	9MMDHD10				
U-234	***4.76E-01***		3.2E-01	3.4E-01	2.00E-01	pCi/g	46%	*(2.4)*	9/27/11 05:39 p		1.0	ALP10
						2.77E-02	1.00E+00	*(2.8)*			g	
U-235	***4.79E-02***	U	1.1E-01	1.1E-01	2.23E-01	pCi/g	46%	*0.22*	9/27/11 05:39 p		1.0	ALP10
						3.92E-02	1.00E+00	*0.89*			g	
U-238	***1.04E-01***	U	1.5E-01	1.5E-01	2.00E-01	pCi/g	46%	*0.52*	9/27/11 05:39 p		1.0	ALP10
						2.77E-02	1.00E+00	*(1.4)*			g	
							Ratio U-234/238 = 4.6					
Batch: 1256128	PUISO_PLATE_AEA			**Work Order:**	MMDHD1AF		**Report DB ID:**	9MMDHD10				
PU-238	***0.00E+00***	U	0.0E+00	6.3E-02	1.18E-01	pCi/g	100%	*0.*	9/26/11 12:21 p		1.02	ALP40
						1.63E-02	1.00E+00	*0.*			g	
PU239/40	***0.00E+00***	U	0.0E+00	6.3E-02	1.18E-01	pCi/g	100%	*0.*	9/26/11 12:21 p		1.02	ALP40
						1.63E-02	1.00E+00	*0.*			g	

No. of Results: 16 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.15 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 II

Date: 29-Sep-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 8:15:00 AM
Lot-Sample No.:	J1I120446-1	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV86	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1255176	7196_CR6			**Work Order:** MMDGV1AL		**Report DB ID:** MMDGV1ER			**Orig Sa DB ID:** 9MMDGV10			
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	9/14/11 08:15 a		2.502	
	1.55E-01	U	**RPD** 0.0			3.50E-01		N/A			g	

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

TestAmerica
rptSTLRchDupV5.2
.15 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: 29-Sep-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 8:15:00 AM
Lot-Sample No.:	J1I120446-1	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV86 DUP	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1256128	PUISO_PLATE_AEA			Work Order: MMDGV1AM		Report DB ID: MMDGV1MR			Orig Sa DB ID: 9MMDGV10			
PU-238	-1.90E-03	U	7.6E-02	7.6E-02	1.42E-01	pCi/g	81%	-0.01	9/26/11 11:00 a		1.01	ALP39
	-4.32E-03	U	RPD	-77.9		1.00E+00		-0.05			g	
PU239/40	3.41E-02	U	7.6E-02	7.6E-02	1.58E-01	pCi/g	81%	0.22	9/26/11 11:00 a		1.01	ALP39
	2.73E-02	U	RPD	21.9		1.00E+00		0.89			g	

Alpha Spec Result Sum = 3.2E-02

No. of Results: 2 **Comments:**

TestAmerica
rptSTLRchDupV5.2
.15 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: 29-Sep-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 8:20:00 AM
Lot-Sample No.:	J1I120446-2	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV87 DUP	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1256127	UISO_IE_PLATE_AEA			Work Order: MMDG01AK		Report DB ID: MMDG01KR			Orig Sa DB ID: 9MMDG010			
U-234	1.40E-01	U	2.0E-01	2.0E-01	2.63E-01	pCi/g	33%	0.53	9/27/11 03:58 p		1.02	ALP8
	1.31E-01	U	RPD	6.8		1.00E+00		(1.4)			g	
U-235	0.00E+00	U	0.0E+00	1.4E-01	2.63E-01	pCi/g	33%	0.	9/27/11 03:58 p		1.02	ALP8
	-4.85E-03	U	RPD	-200.0		1.00E+00		0.			g	
U-238	7.00E-02	U	1.4E-01	1.4E-01	2.63E-01	pCi/g	33%	0.27	9/27/11 03:58 p		1.02	ALP8
	3.25E-01		RPD	129.0		1.00E+00		0.99			g	

Ratio U-234/238 = 2.0 *Alpha Spec Result Sum = 2.1E-01*

No. of Results: 3 **Comments:**

TestAmerica
rptSTLRchDupV5.2
.15 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: 29-Sep-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 8:35:00 AM
Lot-Sample No.:	J1I120446-3	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV88 DUP	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1256126	C14_CHEM_LSC			Work Order:	MMDG11AK	Report DB ID:	MMDG11KR		Orig Sa DB ID:	9MMDG110		
C-14	3.57E-01	U	2.0E-01	2.1E-01	4.40E-01	pCi/g	100%	0.81	9/17/11 05:32 a		5.011	LSC3
	1.59E-01	U	RPD	77.0		5.00E+01		(3.3)			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchDupV5.2
.15 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: 29-Sep-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 8:40:00 AM
Lot-Sample No.:	J1I120446-4	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV89 DUP	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1256124	NI63_LSC			**Work Order:** MMDG21AK		**Report DB ID:** MMDG21KR			**Orig Sa DB ID:** 9MMDG210			
NI-63	-2.21E+00	U	5.1E+00	6.0E+00	1.29E+01	pCi/g	95%	-0.17	9/22/11 02:24 p		0.25	LSC3
	-1.99E+00	U	**RPD**	**-10.7**		3.00E+01		-0.74			g	

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

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: 29-Sep-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	SDG:	J01273	Collection Date:	9/8/2011 8:50:00 AM
Lot-Sample No.:	J1I120446-5	Report No. :	48592	Received Date:	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV90 DUP	COC No. :	RC-075-259	Matrix:	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1256123	906.0_H3_LSC			Work Order:	MMDG31AK	Report DB ID:	MMDG31KR		Orig Sa DB ID: 9MMDG310			
H-3	1.56E-02		6.7E-03	7.1E-03	1.47E-02	pCi/g	100%	(1.1)	9/20/11 03:00 a		117.2	LSC4
	1.98E-02		RPD 23.8			4.00E+02		(4.4)			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.
.15 A2002

FORM II

Date: 29-Sep-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 8:55:00 AM
Lot-Sample No.:	J1I120446-6	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV91 DUP	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1256122	GAMMA_GS			Work Order:	MMDG41AK	Report DB ID:	MMDG41KR		Orig Sa DB ID: 9MMDG410			
AMERICIUM 241	-4.70E-02	U	6.0E-02	6.0E-02	9.79E-02	pCi/g		-0.48	9/15/11 01:29 p		418.7	GER7$1
	-2.19E-02	U	RPD	-73.0				-(1.6)			g	
CO-60	-1.27E-03	U	1.8E-02	1.8E-02	3.25E-02	pCi/g		-0.04	9/15/11 01:29 p		418.7	GER7$1
	1.99E-02	U	RPD	227.2		5.00E-02		-0.14			g	
CS-137	3.07E-02	U	1.8E-02	1.8E-02	3.43E-02	pCi/g		0.89	9/15/11 01:29 p		418.7	GER7$1
	7.03E-03	U	RPD	125.4		1.00E-01		(3.4)			g	
EU-152	-4.71E-02	U	4.8E-02	4.8E-02	7.55E-02	pCi/g		-0.62	9/15/11 01:29 p		418.7	GER7$1
	-2.15E-02	U	RPD	-74.6		1.00E-01		-(2.)			g	
EU-154	1.75E-02	U	5.8E-02	5.8E-02	1.05E-01	pCi/g		0.17	9/15/11 01:29 p		418.7	GER7$1
	-3.56E-02	U	RPD	-586.9		1.00E-01		0.6			g	
EU-155	2.49E-02	U	4.6E-02	4.6E-02	7.98E-02	pCi/g		0.31	9/15/11 01:29 p		418.7	GER7$1
	3.28E-03	U	RPD	153.5		1.00E-01		(1.1)			g	

No. of Results: 6 **Comments:**

TestAmerica
rptSTLRchDupV5.2
.15 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: 29-Sep-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	J01273	**Collection Date:**	9/8/2011 1:30:00 PM
Lot-Sample No.:	J1I120446-7	**Report No. :**	48592	**Received Date:**	9/12/2011 1:30:00 PM
Client Sample ID:	J1KV92 DUP	**COC No. :**	RC-075-259	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1256121	SRTOT_SEP_PRECIP_GPC			Work Order: MMDG51AK		Report DB ID: MMDG51KR			Orig Sa DB ID: 9MMDG510			
STRONTIUM	8.95E-02	U	7.9E-02	8.2E-02	1.63E-01	pCi/g	64%	0.55	9/26/11 06:02 p		6.01	GPC27A
	8.34E-02	U	RPD 7.0					(2.2)			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchDupV5.2
.15 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: 29-Sep-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: J01273

Report No. : 48592

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA ,	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1255176	7196_CR6			**Work Order:**	MMDKQ1AA		**Report DB ID:**	MMDKQ1AB				
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	9/14/11 08:15 a		2.5	
						1.55E-01		N/A			g	
Batch: 1256126	C14_CHEM_LSC			**Work Order:**	MMD6W1AA		**Report DB ID:**	MMD6W1AB				
C-14	2.14E-03	U	4.6E-03	5.0E-03	1.10E-02	pCi/g	100%	0.19	9/17/11 10:06 a		200.0	LSC3
					5.19E-03	5.00E+01		0.86			g	
Batch: 1256128	PUISO_PLATE_AEA			**Work Order:**	MMD661AA		**Report DB ID:**	MMD661AB				
PU-238	-2.75E-03	U	5.5E-02	5.5E-02	1.15E-01	pCi/g	100%	-0.02	9/26/11 12:21 p		1.0	ALP41
					2.02E-02	1.00E+00		-0.1			g	
PU239/40	-1.37E-03	U	5.5E-02	5.5E-02	1.03E-01	pCi/g	100%	-0.01	9/26/11 12:21 p		1.0	ALP41
					1.43E-02	1.00E+00		-0.05			g	
Batch: 1256127	UISO_IE_PLATE_AEA			**Work Order:**	MMD631AA		**Report DB ID:**	MMD631AB				
U-234	-6.52E-03	U	6.6E-02	6.6E-02	1.56E-01	pCi/g	66%	-0.04	9/27/11 05:39 p		1.03	ALP11
					3.39E-02	1.00E+00		-0.2			g	
U-235	-1.63E-03	U	6.5E-02	6.5E-02	1.22E-01	pCi/g	66%	-0.01	9/27/11 05:39 p		1.03	ALP11
					1.70E-02	1.00E+00		-0.05			g	
U-238	-4.89E-03	U	6.5E-02	6.5E-02	1.47E-01	pCi/g	66%	-0.03	9/27/11 05:39 p		1.03	ALP11
					2.94E-02	1.00E+00		-0.15			g	
								Ratio U-234/238 = 1.3				
Batch: 1256124	NI63_LSC			**Work Order:**	MMD6Q1AA		**Report DB ID:**	MMD6Q1AB				
NI-63	1.15E+00	U	5.1E+00	5.9E+00	1.24E+01	pCi/g	99%	0.09	9/22/11 06:36 p		0.25	LSC3
					5.81E+00	3.00E+01		0.39			g	
Batch: 1256123	906.0_H3_LSC			**Work Order:**	MMD6P1AA		**Report DB ID:**	MMD6P1AB				

TestAmerica
rptSTLRchBlank
V5.2.15 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 II

BLANK RESULTS

Date: 29-Sep-11

Lab Name: TestAmerica
Matrix: SOIL

SDG: J01273
Report No. : 48592

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA ,	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
H-3	3.68E-03	U	1.4E-02	1.5E-02	3.42E-02	pCi/g	100%	0.11	9/20/11 04:49 p		99.1	LSC4
					1.63E-02	4.00E+02		0.49			g	
Batch: 1256122	GAMMA_GS			**Work Order:**	MMD6M1AA	**Report DB ID:**	MMD6M1AB					
AMERICIUM 241	-1.99E-02	U	2.5E-02	2.5E-02	4.10E-02	pCi/g		-0.49	9/15/11 08:31 p		348.0	GER14$1
								-(1.6)			g	
CO-60	-1.20E-03	U	1.5E-02	1.5E-02	2.71E-02	pCi/g		-0.04	9/15/11 08:31 p		348.0	GER14$1
						5.00E-02		-0.16			g	
CS-137	-6.63E-03	U	1.6E-02	1.6E-02	2.71E-02	pCi/g		-0.24	9/15/11 08:31 p		348.0	GER14$1
						1.00E-01		-0.84			g	
EU-152	-1.89E-02	U	4.5E-02	4.5E-02	7.58E-02	pCi/g		-0.25	9/15/11 08:31 p		348.0	GER14$1
						1.00E-01		-0.84			g	
EU-154	1.78E-02	U	4.0E-02	4.0E-02	7.86E-02	pCi/g		0.23	9/15/11 08:31 p		348.0	GER14$1
						1.00E-01		0.89			g	
EU-155	1.50E-02	U	3.7E-02	3.7E-02	6.55E-02	pCi/g		0.23	9/15/11 08:31 p		348.0	GER14$1
						1.00E-01		0.81			g	
Batch: 1256121	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MMD6K1AA	**Report DB ID:**	MMD6K1AB					
STRONTIUM	-9.94E-03	U	4.7E-02	4.7E-02	1.17E-01	pCi/g	92%	-0.09	9/26/11 07:02 p		6.0	GPC31B
					5.40E-02			-0.42			g	

No. of Results: 16 **Comments:**

TestAmerica
rptSTLRchBlank
V5.2.15 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: 29-Sep-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: J01273

Report No. : 48592

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 1255176	7196_CR6			**Work Order:**	MMDKQ1AC		**Report DB ID:**	MMDKQ1AS					
HEXCHROME	1.98E+01			0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		99%	9/14/11 08:15 a	2.5	
							Rec Limits:	80	120	0.0		g	
Batch: 1256126	C14_CHEM_LSC			**Work Order:**	MMD6W1AC		**Report DB ID:**	MMD6W1CS					
C-14	7.62E+00		4.3E-01	5.2E-01	4.42E-01	pCi/g	100%	7.28E+00	1.2E-01	105%	9/17/11 10:29 a	5.0	LSC3
							Rec Limits:	70	130	0.0		g	
Batch: 1256128	PUISO_PLATE_AEA			**Work Order:**	MMD661AC		**Report DB ID:**	MMD661CS					
PU239/40	6.56E+00		9.2E-01	1.7E+00	1.22E-01	pCi/g	100%	6.72E+00	2.0E-01	97%	9/26/11 12:21 p	1.02	ALP42
							Rec Limits:	70	130	0.0		g	
Batch: 1256127	UISO_IE_PLATE_AEA			**Work Order:**	MMD631AC		**Report DB ID:**	MMD631CS					
U-234	3.47E+00		7.9E-01	1.2E+00	2.53E-01	pCi/g	53%	3.17E+00	9.8E-02	109%	9/27/11 08:38 p	1.03	ALP3
							Rec Limits:	70	130	0.1		g	
U-238	2.94E+00		7.3E-01	1.0E+00	2.44E-01	pCi/g	53%	3.32E+00	1.0E-01	88%	9/27/11 08:38 p	1.03	ALP3
							Rec Limits:	70	130	-0.1		g	
Batch: 1256124	NI63_LSC			**Work Order:**	MMD6Q1AC		**Report DB ID:**	MMD6Q1CS					
NI-63	4.84E+02		2.2E+01	5.1E+01	1.86E+01	pCi/g	66%	6.14E+02	7.0E+00	79%	9/22/11 06:59 p	0.25	LSC3
							Rec Limits:	70	130	-0.2		g	
Batch: 1256123	906.0_H3_LSC			**Work Order:**	MMD6P1AC		**Report DB ID:**	MMD6P1CS					
H-3	2.84E-01		2.3E-02	2.5E-02	3.51E-02	pCi/g	100%	2.88E-01	8.6E-03	99%	9/20/11 06:12 p	94.5	LSC4
							Rec Limits:	70	130	0.0		g	
Batch: 1256122	GAMMA_GS			**Work Order:**	MMD6M1AC		**Report DB ID:**	MMD6M1CS					
CS-137	1.16E+00		1.6E-01	1.6E-01	4.61E-02	pCi/g		1.07E+00	1.1E-02	108%	9/15/11 08:35 p	350.1	GER7$1
							Rec Limits:	70	130	0.1		g	

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

rptSTLRchLcs
V5.2.15 A2002

FORM II

LCS RESULTS

Date: 29-Sep-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: J01273

Report No. : 48592

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
RA-226	1.00E+00		1.7E-01	1.7E-01	6.46E-02	pCi/g		1.14E+00	1.2E-02	88%	9/15/11 08:35 p	350.1	GER7$1
							Rec Limits:	70	130	-0.1		g	
RA-228	1.04E+00		2.1E-01	2.1E-01	1.28E-01	pCi/g		8.90E-01	9.2E-03	117%	9/15/11 08:35 p	350.1	GER7$1
							Rec Limits:	70	130	0.2		g	
U-238	1.05E+00		1.7E-01	1.7E-01	7.05E-02	pCi/g		1.20E+00	1.2E-02	87%	9/15/11 08:35 p	350.1	GER7$1
							Rec Limits:	70	130	-0.1		g	
Batch: 1256121	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MMD6K1AC		**Report DB ID:**	MMD6K1CS					
STRONTIUM	1.14E+00		1.3E-01	3.3E-01	1.14E-01	pCi/g	93%	1.14E+00	1.3E-02	101%	9/26/11 07:02 p	6.02	GPC31D
							Rec Limits:	70	130	0.0		g	

No. of Results: 12 **Comments:**

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

rptSTLRchLcs
V5.2.15 A2002

FORM II

Date: 29-Sep-11

MATRIX SPIKE RESULTS

Lab Name: TestAmerica **SDG:** J01273

Lot-Sample No.: J1I120446-1, J1KV86 **Report No. :** 48592 **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: 1255176	Work Order: MMDGV1AK			Report DB ID: MMDGV1CW			Orig Sa DB ID: 9MMDGV10					
HEXCHROME	8.94E+00			0.0E+00	1.55E-01	mg/kg	N/A	89.02%	1.00E+01	9/14/11 08:15 a	2.5019	7196_CR6
	1.55E-01										g	

Number of Results: 1

Comments:

TestAmerica
rptSTLRchMs
V5.2.15 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

9/26/2011 3:37:59 PM

Lot No., Due Date: J1I120446; 10/03/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1256128; RPUISO Pulso by ALP
SDG, Matrix: J01273; 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 9-26-11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1256128

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

Comments on any "No" response: _____

Second Level Review: Sandra Seger Date: 9/27/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/29/2011 11:42:09 AM

Lot No., Due Date: J1I120446; 10/03/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1256127; RUISO Uiso by ALP
SDG, Matrix: J01273; 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 [signature] Date 9-29-11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1256127

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 = 1.0pCi/g

Second Level Review: Rhonda W Jones Date: 9/29/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/29/2011 11:46:30 AM

Lot No., Due Date: J1I120446; 10/03/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1256121; RSRTOT SrTot by GPC
SDG, Matrix: J01273; 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** 9-29-11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 125121

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: Rhonda W Sauer Date: 9/29/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/28/2011 12:08:15 PM

Lot No., Due Date: J1I120446; 10/03/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1256122; RGAMMA Gamma by GER
SDG, Matrix: J01273; 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:
NCM 10-19284

First Level Lisa Anderson Date 9/28/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1256122

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 = 0.1 pCi/g
See NCM #: 10-19284

Second Level Review: Brenda W Jones Date: 9/29/11

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-19284**
NCM Initiated By: Lisa Antonson
Date Opened: 09/28/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Counting
Tests: Gamma by GER
Lot #'s (Sample #'s): J11120446 (1,10,11,12,13,2,3,4,5,6,7,8,9),
QC Batches: 1256122,

Nonconformance: MDA not met
Subcategory: Data accepted

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	09/28/2011	MDA does not meet CRDL for all samples.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	09/28/2011	none

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: 9/28/2011

Page 1 of 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/26/2011 9:57:23 AM

Lot No., Due Date: J1I120446; 10/03/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1256123; RTRITIUM H-3 by LSC
SDG, Matrix: J01273; 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** 9-26-11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1256123

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

Comments on any "No" response: _____

Second Level Review: Sandra Segu Date: 9/27/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/26/2011 3:00:13 PM

Lot No., Due Date: J1I120446; 10/03/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1256126; RC14 C-14 by LSC
SDG, Matrix: J01273; 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 [signature] **Date** 9-26-11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1256126

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

Comments on any "No" response: _____

Second Level Review: Sandra Segu Date: 9/27/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/26/2011 3:01:47 PM

Lot No., Due Date: J1I120446; 10/03/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1256124; RNI63 NI-63 by LSC
SDG, Matrix: J01273; 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 [signature] **Date** 9-26-11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1256124

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

Comments on any "No" response: _____

Second Level Review: Sandra Sagre Date: 9/27/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): 1255176

Lab Sample Numbers or SDG: **J01273**

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

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

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

Comments on any "No" response:

Analyst: H.R Date: 9-19-11

Second-Level Review: Date: 9/19/11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-259	Page 1 of 6

Collector: K. Lucas	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 118-D-2:1 Burial Ground- Overburden		SAF No.: RC-075
Ice Chest No.: NA	Field Logbook No.: EL-1607-12	COA: R118D22000	Method of Shipment: Hand Deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad < DOT

Special Handling and/or Storage

Cool 4 Deg. C

J01273

J1I120446

J1I120446

Due 10-3-11

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None	None
Type of Container	G/P	G/P	G	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	60mL	120mL	125mL	120mL	125mL	1000mL	1000mL	1000mL	1000mL
	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D+	PAHs - 8310	PCBs - 8082	Chloro-Herbicides - EPA8151	See item (2) in Special Instructions.	Carbon-14; Tritium - H3	Nickel-63; Strontium-89,90 -- Total Sr	Isotopic Plutonium

RCF 27384

Sample No.	Matrix *	Sample Date	Sample Time								
J1KV86 MMD6V	SOIL	9/8/11	0815		X				X	X	X	X
J1KV87 MMD60	SOIL	9/8/11	0820		X				X	X	X	X
J1KV88 MMD61	SOIL	9/8/11	0835		X				X	X	X	X
J1KV89 MMD62	SOIL	9/8/11	0840		X				X	X	X	X
J1KV90 MMD63	SOIL	9/8/11	0850		X				X	X	X	X

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K. Lucas Kevin Lucas	9-8-11 1510	D. Newman Dem Neum	9/8/11 1510
D. Newman Dem Neum	1650 9/8/11	A. Freier A. Freier (1060 #2)	1650 9-8-11
A. Freier A. Freier (1060 #2)	WC# 1330 9-12-11	TAR Lucas Velazquez	1330 9/12/11

SPECIAL INSTRUCTIONS

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

(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

REVIEWED BY CMB DATE 9/12/11

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-075-259	Page 2 of 6

Collector: K. Lucas	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 118-D-2:1 Burial Ground- Overburden		SAF No.: RC-075
Ice Chest No.: NA	Field Logbook No.: EL-1607-12	COA: R118D22000	Method of Shipment: Hand Deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad < DOT

Special Handling and/or Storage

~~Cool 4 Deg. C~~ None

AJ 9-8-11

Preservation	None										
Type of Container	G/P										
No. of Container(s)	0										
Volume	1000mL										

J01273
J1I120446
Due 10-3-11

SAMPLE ANALYSIS

Sample No.	Matrix *	Sample Date	Sample Time	Isotopic Uranium							RCF		
J1KV86 mmD5V	SOIL	9/8/11	0815	X							27384		
J1KV87 mmD60	SOIL	9/8/11	0820	X									
J1KV88 mmD61	SOIL	9/8/11	0835	X									
J1KV89 mmD62	SOIL	9/8/11	0840	X									
J1KV90 mmD63	SOIL	9/8/11	0850	X									

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K. Lucas Kenneth Lucas	9-8-11 1670	D. Newman Dennis Newman	9/8/11 1510
D. Newman Dennis Newman	1650 9/8/11	A. Freier A. Freier 1060#2	1650 9-8-11
A. Freier A. Freier 1060#2	WC# 1330 9-12-11	Lucas Velazquez	TAT 1330 9/12/11

SPECIAL INSTRUCTIONS

REVIEWED BY CMB DATE 9/12/11

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.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-259	Page 2 of 6

Collector: K. Lucas	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 118-D-2:1 Burial Ground- Overburden		SAF No.: RC-075
Ice Chest No.: NA	Field Logbook No.: EL-1607-12	COA: R118D22000	Method of Shipment: Hand Deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad < DOT

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	G	aG	aG	aG	G/P	G/F	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	0	0	0
Volume	60mL	60mL	120mL	125mL	120mL	125mL	1000mL	1000mL	1000mL	1000mL

J01273
J1I120446
Due 10-3-11

SAMPLE ANALYSIS

Sample No.	Matrix *	Sample Date	Sample Time	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D+	PAHs - 8310	PCBs - 8082	Chloro-Herbicides - EPA8151	See item (2) in Special Instructions.	Carbon-14; Tritium - H3	Nickel-63; Strontium-89,90 -- Total Sr	Isotopic Plutonium
J1KV91 mmD64	SOIL	9/8/11	0855		X					X	X	X	X
J1KV92 mmD65	SOIL	9/8/11	1330		X					X	X	X	X
J1KV93 mmD66	SOIL	9/8/11	1340		X					X	X	X	X
J1KV94 mmD67	SOIL	9/8/11	1350		X					X	X	X	X
J1KV95 mmD68	SOIL	9/8/11	1405		X					X	X	X	X

RCF 27384

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K. Lucas	9-8-11 1510	D. Newman	9/8/11 1510
D. Newman	9/8/11 1650	A. Freier (1060 #2)	9-8-11 1650
A. Freier (1060 #2) (WCH)	9-12-11 1330	Lucas (TAL)	9/12/11 1330

SPECIAL INSTRUCTIONS

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

(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

REVIEWED BY CMB DATE 9/12/11

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.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-259	Page 4 of 6

Collector: K. Lucas	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 118-D-2:1 Burial Ground- Overburden		SAF No.: RC-075
Ice Chest No.: NA	Field Logbook No.: EL-1607-12	COA: R118D22000	Method of Shipment: Hand Deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad < DOT

Special Handling and/or Storage

~~Cool 4 Deg. C~~ None
AS 9-8-11

Preservation	None										
Type of Container	G/P										
No. of Container(s)	0										
Volume	1000mL										
SAMPLE ANALYSIS	Isotopic Uranium										

Sample No.	Matrix *	Sample Date	Sample Time	Isotopic Uranium						RCF			
J1KV91 mmD64	SOIL	9/8/11	0855	X						27384			
J1KV92 mmD65	SOIL	9/8/11	1530	X									
J1KV93 mmD66	SOIL	9/8/11	1340	X									
J1KV94 mmD67	SOIL	9/8/11	1350	X									
J1KV95 mmD68	SOIL	9/8/11	1405	X									

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS
Relinquished By/Removed From: K. Lucas Date/Time: 9-8-11 1510	Received By/Stored In: D. Newman Date/Time: 9/8/11 1510	
Relinquished By/Removed From: D. Newman Date/Time: 1650 9/8/11	Received By/Stored In: 1060 #2 A. Freier Date/Time: 1650 9-8-11	
Relinquished By/Removed From: A. Freier Date/Time: 1330 1060#2 9-12-11	Received By/Stored In: Lucas Date/Time: 1330 9/12/11	
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	

REVIEWED BY CMB DATE 9/12/11

Matrix *
S=Soil
SE=Sediment
SO=Solid
SJ=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-075-259	Page 3 of 6

Collector: K. Lucas	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 118-D-2:1 Burial Ground- Overburden		SAF No.: RC-075
Ice Chest No.: NA	Field Logbook No.: EL-1607-12	COA: R118D22000	Method of Shipment: Hand Deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad < DOT

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	G	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	60mL	120mL	125mL	120mL	125mL	1000mL	1000mL	1000mL	1000mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D+	PAHs - 8310	PCBs - 8082	Chloro-Herbicides - EPA8151	See item (2) in Special Instructions.	Carbon-14; Tritium - H3	Nickel-63; Strontium-89,90 -- Total Sr	Isotopic Plutonium

J01273
J1I120446
Due 10-3-11

Sample No.	Matrix *	Sample Date	Sample Time										
										RCF 27384			
J1KV96 MMDL9	SOIL	9/8/11	1420		X					X	X	X	X
J1KV97 MMOHC	SOIL	9/8/11	1430		X					X	X	X	X
J1KV98 MMDHD	SOIL	9/8/11	0815		X					X	X	X	X
~~J1KV99 QC~~	~~SOIL~~	~~9/8/11~~											

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K. Lucas Kevin Lucas	9-8-11 1510	D. Newman Dem Newm	9/8/11 1510
D. Newman Dem Newm	9/8/11 1650	A. Freier A. Freier (1060 #2)	1650 9-8-11
A. Freier A. Freier (1060 #2)	1330 9-12-11	Lucas Velazquez (TAL)	1330 9/12/11

SPECIAL INSTRUCTIONS

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

REVIEWED BY CMB DATE 9/12/11

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.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-259	Page 6 of 6

Collector: K. Lucas	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 118-D-2:1 Burial Ground- Overburden		SAF No.: RC-075
Ice Chest No.: NA	Field Logbook No.: EL-1607-12	COA: R118D22000	Method of Shipment: Hand Deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad < DOT

Special Handling and/or Storage

~~Cool 4 Deg. C~~ None

AJ 9-8-11

Preservation	None										
Type of Container	G/P										
No. of Container(s)	0										
Volume	1000mL										
SAMPLE ANALYSIS	Isotopic Uranium										
Sample No. / Matrix * / Sample Date / Sample Time									RCF		
J1KV96 / SOIL / 9/8/11 / ~~1919~~ 1420	X								27384		
J1KV97 / SOIL / 9/8/11 / 1430	X										
J1KV98 / SOIL / 9/8/11 / 0815	X										
~~J1KV99 / SOIL / 9/8/11~~											

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K. Lucas Kevan Lucas	9-8-11 1510	D. Newman Dem Newm	9/8/11 1510
D. Newman Demri Newman	9/8/11 1650	1060 #2 A. Freier A. Freier	1650 9-8-11
WCH A. Freier A. Freier 1060 #2	1330 9-12-11	TAL Lucas Velasquez	1330 9/12/11

SPECIAL INSTRUCTIONS

REVIEWED BY CMB DATE 9/12/11

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

Apex™

Analysis Report for RCF27384

J1FJP9 SAF:RC-074 100D/118-D-2 EXCAVATION AREA 3, EX3-4

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF27384
Sample Description	: J1FJP9 SAF:RC-074 100D/118-D-2 EXCAVATION AREA 3, EX3-4
Sample Type	: 80g pillbox
Sample Size	: 6.200E+01 grams
Facility	: Default
Sample Taken On	: 3/22/2011 10:50:00AM
Acquisition Started	: 3/23/2011 9:44:37AM
Procedure	: 80 Gram Pill Box
Operator	: RCT
Detector Name	: PGTLYNX
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3602.5 seconds
Dead Time	: 0.07 %
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	: 3/3/2011
Efficiency Calibration Used Done On	: 3/11/2011
Efficiency Calibration Description	: PGTL 80gPB 030811EC SN82752-238
Sample Number	: 12874

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		0.998	1.18E+01	2.56E+00	
PB-212		0.710	8.16E-01	1.58E-01	
RA-226d	@	0.621	5.61E-01	1.32E-01	
TH-232d		0.673	5.90E-01	1.38E-01	
U-238d		0.339	1.35E+00	8.21E-01	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 9-12-11 / 1330 GM Screen Result: (Airlock) .15 Initials [RB]
(Sample Receiving) .02 Initials [RB]

Client: WXH SDG #: J01273 NA [ ] SAF #: RC-075 NA [ ]

Lot Number: J1J120446

Chain of Custody # RC-075-259

Shipping Container ID: hand deliv. NA [ ]

Samples received inside shipping container/cooler/box Yes [RB] 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 [RB]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [RB]
3. Cooler temperature: 12 °C on ice NA [ ]
4. Vermiculite/packing materials is NA [RB] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [RB] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 13
7. Containers received: 13 x 60mL AG; 13 x LP
8. Sample holding times exceeded? NA [ ] Yes [ ] No [RB]
9. Samples have:
   - ____ tape
   - [RB] custody seals
   - ____ hazard labels
   - [RB] appropriate sample labels
10. Matrix:
    - [RB] A (FLT, Wipe, Solid, Soil)
    - ____ S (Air, Niosh 7400)
    - ____ I (Water)
    - ____ T (Biological, Ni-63)
11. Samples:
    - [RB] 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 [RB]
    (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 :
13. Were any anomalies identified in sample receipt? Yes [ ] No [RB]
14. Description of anomalies (include sample numbers): NA [RB]

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: _____

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

Sample Custodian: [signature] / 1330 Date: 9-12-11

Client Informed on _____ by _____ Person contacted _____

[✓] No action necessary; process as is

Project Manager [signature] Date 9/13/11

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

LS-023, Rev. 14, 06/11
TestAmerica Laboratories, Inc.

See over for additional information.

9/16/2011 11:30:22 AM

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: 10/03/2011

Sep1 DT/Tm Tech:

Batch: 1256128 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 1255176 DWEA, 1256121 CHTH, 1256122 AXTA, 1256123 ATS6, 1256124 AFS4, 1256126 5SS3, 1256127 7SSR, 1256128 6ASO,

Prep Tech: ,SannohS

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MMDGV-1-AF J1I120446-1-SAMP 09/08/2011 08:15	AmtRec: 1X60MLAG;1XLP #Containers: 2	1.00g,in	PUTC12431 08/02/11,pd 01/01/10,r	50 min		Scr:	Alpha:	Beta:
2 MMDGV-1-AM-X J1I120446-1-DUP 09/08/2011 08:15	AmtRec: 1X60MLAG;1XLP #Containers: 2	1.01g,in	PUTC12432 08/02/11,pd 01/01/10,r			Scr:	Alpha:	Beta:
3 MMDG0-1-AF J1I120446-2-SAMP 09/08/2011 08:20	AmtRec: 1X60MLAG;1XLP #Containers: 2	1.01g,in	PUTC12433 08/02/11,pd 01/01/10,r			Scr:	Alpha:	Beta:
4 MMDG1-1-AF J1I120446-3-SAMP 09/08/2011 08:35	AmtRec: 1X60MLAG;1XLP #Containers: 2	1.01g,in	PUTC12434 08/02/11,pd 01/01/10,r			Scr:	Alpha:	Beta:
5 MMDG2-1-AF J1I120446-4-SAMP 09/08/2011 08:40	AmtRec: 1X60MLAG;1XLP #Containers: 2	1.01g,in	PUTC12435 08/02/11,pd 01/01/10,r			Scr:	Alpha:	Beta:
6 MMDG3-1-AF J1I120446-5-SAMP 09/08/2011 08:50	AmtRec: 1X60MLAG;1XLP #Containers: 2	0.99g,in	PUTC12436 08/02/11,pd 01/01/10,r			Scr:	Alpha:	Beta:
7 MMDG4-1-AF J1I120446-6-SAMP 09/08/2011 08:55	AmtRec: 1X60MLAG;1XLP #Containers: 2	1.00g,in	PUTC12437 08/02/11,pd 01/01/10,r			Scr:	Alpha:	Beta:

9/16/2011 11:30:24 AM

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: 10/03/2011

Sep1 DT/Tm Tech:

Batch: 1256128 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MMDG5-1-AF J1I120446-7-SAMP 09/08/2011 13:30	AmtRec: 1X60MLAG;1XLP #Containers: 2	1.01g,in	PUTC12438 08/02/11,pd 01/01/10,r	50 min		Scr:	Alpha:	Beta:
9 MMDG6-1-AF J1I120446-8-SAMP 09/08/2011 13:40	AmtRec: 1X60MLAG;1XLP #Containers: 2	0.99g,in	PUTC12439 08/02/11,pd 01/01/10,r			Scr:	Alpha:	Beta:
10 MMDG7-1-AF J1I120446-9-SAMP 09/08/2011 13:50	AmtRec: 1X60MLAG;1XLP #Containers: 2	1.02g,in	PUTC12440 08/02/11,pd 01/01/10,r			Scr:	Alpha:	Beta:
11 MMDG8-1-AF J1I120446-10-SAMP 09/08/2011 14:05	AmtRec: 1X60MLAG;1XLP #Containers: 2	1.00g,in	PUTC12441 08/02/11,pd 01/01/10,r			Scr:	Alpha:	Beta:
12 MMDG9-1-AF J1I120446-11-SAMP 09/08/2011 14:20	AmtRec: 1X60MLAG;1XLP #Containers: 2	1.01g,in	PUTC12442 08/02/11,pd 01/01/10,r			Scr:	Alpha:	Beta:
13 MMDHC-1-AF J1I120446-12-SAMP 09/08/2011 14:30	AmtRec: 1X60MLAG;1XLP #Containers: 2	1.01g,in	PUTC12443 08/02/11,pd 01/01/10,r			Scr:	Alpha:	Beta:
14 MMDHD-1-AF J1I120446-13-SAMP 09/08/2011 08:15	AmtRec: 1X60MLAG;1XLP #Containers: 2	1.02g,in	PUTC12444 08/02/11,pd 01/01/10,r			Scr:	Alpha:	Beta:

9/16/2011 11:30:25 AM

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: ,SannohS

AnalyDueDate: 10/03/2011

Batch: 1256128 pCi/g
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MMD66-1-AA-B J1I130000-128-BLK 09/13/2011 12:47 pd		1.00g,in AmtRec:	PUTC12445 08/02/11,pd 01/01/10,r #Containers: 1	50min		Scr:	Alpha:	Beta:
16 MMD66-1-AC-C J1I130000-128-LCS 09/13/2011 12:47 pd		1.02g,in AmtRec:	PUSK0878 08/02/11,pd 01/01/10,r #Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

MMDGV1AF-SAMP Constituent List:

PU-238	RDL:1	pCi/g	LCL:	UCL:	RPD:	PU-239	RDL:1	pCi/g	LCL:70	UCL:130	RPD:35
Pu-242	RDL:	pCi/g	LCL:20	UCL:105	RPD:35						

MMD661AA-BLK:

PU-238	RDL:1	pCi/g	LCL:	UCL:	RPD:	PU-239	RDL:1	pCi/g	LCL:	UCL:	RPD:
Pu-242	RDL:	pCi/g	LCL:20	UCL:105	RPD:35						

MMD661AC-LCS:

PU-239	RDL:1	pCi/g	LCL:70	UCL:130	RPD:35	Pu-242	RDL:	pCi/g	LCL:20	UCL:105	RPD:35

MMDGV1AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MMD661AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MMD661AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

4/2

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9/26/2011 3:37:06 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/26/2010, 10/1/2011, Batch: '1256128', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting				Comments
1256128							
AC		**Rev1C**	**SannohS**	9/16/2011 10:56:43			
SC			MauclerlS	IsBatched	9/13/2011 12:57:19 PM		ICOC_RADCALC v4.8.49
SC			SannohS	InPrep	9/16/2011 10:56:43 AM		RL-PRP-003 Revision 2
SC			WoodT	Prep1C	9/19/2011 3:53:28 AM		RL-PRP-003 REVISION 2
SC			BouslaughP	Prep1C	9/19/2011 8:57:00 AM		RL-PRP-003 REVISION 2
SC			LukeicS	Sep2C	9/26/2011 10:08:09 AM		RL-ALP-016 REVISION 1
SC			ClarkR	InCnt1	9/26/2011 10:16:04 AM		RL-CI-008 REVISION 1
SC			ClarkR	CalcC	9/26/2011 2:50:47 PM		RL-CI-008 REVISION 1
SC			nortonj	Rev1C	9/26/2011 3:36:51 PM		RL-DR-001 Rev 2
AC			**WoodT**	9/19/2011 3:53:28			
AC			**BouslaughP**	9/19/2011 8:57:00			
AC			**LukeicS**	9/26/2011 10:08:09			
AC			**ClarkR**	9/26/2011 10:16:04			
AC			**ClarkR**	9/26/2011 2:50:47 PM			
AC			**nortonj**	9/26/2011 3:36:51 PM			

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.44

9/15/2011 4:02:52 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: 10/03/2011

Sep1 DT/Tm Tech:

Batch: 1256127 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MMDGV-1-AC J1I120446-1-SAMP 09/08/2011 08:15	AmtRec: 1X60MLAG;1XLP	1.03g,in	UITC26923 07/27/11,pd 06/15/01,r	50 min	#Containers: 2	Scr:	Alpha:	Beta:
2 MMDG0-1-AC J1I120446-2-SAMP 09/08/2011 08:20	AmtRec: 1X60MLAG;1XLP	1.03g,in	UITC26924 07/27/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:
3 MMDG0-1-AK-X J1I120446-2-DUP 09/08/2011 08:20	AmtRec: 1X60MLAG;1XLP	1.02g,in	UITC26925 07/27/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:
4 MMDG1-1-AC J1I120446-3-SAMP 09/08/2011 08:35	AmtRec: 1X60MLAG;1XLP	1.02g,in	UITC26926 07/27/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:
5 MMDG2-1-AC J1I120446-4-SAMP 09/08/2011 08:40	AmtRec: 1X60MLAG;1XLP	1.00g,in	UITC26927 07/27/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:
6 MMDG3-1-AC J1I120446-5-SAMP 09/08/2011 08:50	AmtRec: 1X60MLAG;1XLP	1.02g,in	UITC26928 07/27/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:
7 MMDG4-1-AC J1I120446-6-SAMP 09/08/2011 08:55	AmtRec: 1X60MLAG;1XLP	1.00g,in	UITC26929 07/27/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:

9/15/2011 4:02:53 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: 10/03/2011

Sep1 DT/Tm Tech:

Batch: 1256127 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MMDG5-1-AC J1I120446-7-SAMP 09/08/2011 13:30		1.00g,in AmtRec: 1X60MLAG;1XLP	UITC26930 07/27/11,pd #Containers: 2	50 min		Scr:	Alpha:	Beta:
9 MMDG6-1-AC J1I120446-8-SAMP 09/08/2011 13:40		1.00g,in AmtRec: 1X60MLAG;1XLP	UITC26931 07/27/11,pd #Containers: 2			Scr:	Alpha:	Beta:
10 MMDG7-1-AC J1I120446-9-SAMP 09/08/2011 13:50		1.00g,in AmtRec: 1X60MLAG;1XLP	UITC26932 07/27/11,pd #Containers: 2			Scr:	Alpha:	Beta:
11 MMDG8-1-AC J1I120446-10-SAMP 09/08/2011 14:05		1.03g,in AmtRec: 1X60MLAG;1XLP	UITC26933 07/27/11,pd #Containers: 2			Scr:	Alpha:	Beta:
12 MMDG9-1-AC J1I120446-11-SAMP 09/08/2011 14:20		1.00g,in AmtRec: 1X60MLAG;1XLP	UITC26934 07/27/11,pd #Containers: 2			Scr:	Alpha:	Beta:
13 MMDHC-1-AC J1I120446-12-SAMP 09/08/2011 14:30		1.00g,in AmtRec: 1X60MLAG;1XLP	UITC26935 07/27/11,pd #Containers: 2			Scr:	Alpha:	Beta:
14 MMDHD-1-AC J1I120446-13-SAMP 09/08/2011 08:15		1.00g,in AmtRec: 1X60MLAG;1XLP	UITC26936 07/27/11,pd #Containers: 2			Scr:	Alpha:	Beta:

9/15/2011 4:02:54 PM

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 #: _____

AnalyDueDate: 10/03/2011

Sep1 DT/Tm Tech:

Batch: 1256127 pCi/g

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MMD63-1-AA-B J1I130000-127-BLK 09/13/2011 12:47 pd		1.03g,in AmtRec:	UITC26937 07/27/11,pd 06/15/01,r #Containers: 1	50 min		Scr:	Alpha:	Beta:
16 MMD63-1-AC-C J1I130000-127-LCS 09/13/2011 12:47 pd		1.03g,in AmtRec:	UISH1449 09/13/11,pd 06/15/01,r #Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

MMDGV1AC-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:

MMD631AA-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:

MMD631AC-LCS:

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

MMDGV1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MMD631AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MMD631AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

9/29/2011 11:40:54 AM

ICOC Fraction Transfer/Status Report

ByDate: 9/29/2010, 10/4/2011, Batch: '1256127', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1256127						
AC		Rev1C	SannohS	9/15/2011 3:32:04 PM		
SC			MauclerlS	IsBatched	9/13/2011 12:57:10 PM	ICOC_RADCALC v4.8.49
SC			SannohS	InPrep	9/15/2011 3:32:04 PM	RL-PRP-003 Revision 2
SC			WoodT	InPrep2	9/20/2011 4:37:51 AM	RL-PRP-003 REVISION 2
SC			WoodT	Prep1C	9/20/2011 4:41:45 AM	RL-PRP-003 REVISION 2
SC			BouslaughP	Prep1C	9/20/2011 7:37:34 AM	RL-PRP-003 REVISION 2
SC			JorgensonD	Sep1C	9/20/2011 1:52:17 PM	RL-ALP-004 REVISION 2
SC			NyeM	Sep2C	9/27/2011 1:51:33 PM	RL-ALP-015 REVISION 2
SC			ClarkR	InCnt1	9/27/2011 3:01:14 PM	RL-CI-008 REVISION 1
SC			DawkinsO	CalcC	9/28/2011 12:05:23 AM	RL-CI-008 REVISION 1
SC			nortonj	Rev1C	9/29/2011 11:40:38 AM	RL-DR-001 Rev 2
AC			WoodT	9/20/2011 4:37:51		
AC			WoodT	9/20/2011 4:41:45		
AC			BouslaughP	9/20/2011 7:37:34		
AC			JorgensonD	9/20/2011 1:52:17 PM		
AC			NyeM	9/27/2011 1:51:33 PM		
AC			ClarkR	9/27/2011 3:01:14 PM		
AC			DawkinsO	9/28/2011 12:05:23		
AC			nortonj	9/29/2011 11:40:38		

AC: Accepting Entry; SC: Status Change

9/15/2011 2:34:36 PM

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: 10/03/2011

Sep1 DT/Tm Tech: 12:30 9/26/11 APA

Batch: 1256121 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 1255176 DWEA, 1256121 CHTH, 1256122 AXTA, 1256123 ATS6, 1256124 AFS4, 1256126 5SS3, 1256127 7SSR, 1256128 6ASO,

Prep Tech: ,SannohS

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MMDGV-1-AD J1I120446-1-SAMP 09/08/2011 08:15		6.00g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21788 08/29/11	1.5	1.4760g -1.4106g 65.4mg	50 Min	32A	1828	9/26/11 APA	
2 MMDG0-1-AD J1I120446-2-SAMP 09/08/2011 08:20		6.02g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21789 08/29/11		1.4602g -1.3990g 61.2mg		32B			
3 MMDG1-1-AD J1I120446-3-SAMP 09/08/2011 08:35		6.01g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21790 08/29/11		1.4671g -1.4032g 63.9mg		32C			
4 MMDG2-1-AD J1I120446-4-SAMP 09/08/2011 08:40		6.01g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21791 08/29/11		1.4624g -1.3990g 63.4mg		32D			
5 MMDG3-1-AD J1I120446-5-SAMP 09/08/2011 08:50		6.02g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21792 08/29/11		1.4563g -1.3922g 64.1mg		31A	1828	9/26/11 APA	
6 MMDG4-1-AD J1I120446-6-SAMP 09/08/2011 08:55		6.00g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21793 08/29/11		1.4589g -1.3961g 62.7mg		31B			
7 MMDG5-1-AD J1I120446-7-SAMP 09/08/2011 13:30		6.00g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21794 08/29/11		1.4593g -1.3968g 62.5mg		31D			

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

Prep_SamplePrep v4.8.56

TestAmerica Laboratories, Inc.

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9/15/2011 2:34:37 PM

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: 10/03/2011

Sep1 DT/Tm Tech:

Batch: 1256121 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MMDG5-1-AK-X J1I120446-7-DUP 09/08/2011 13:30		6.01g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21795 08/29/11	1.5	1.4507g -1.3866g 64.1mg	50Min	27A	1828	9/26/11	
9 MMDG6-1-AD J1I120446-8-SAMP 09/08/2011 13:40		6.01g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21796 08/29/11		1.4466g -1.3805g 66.1mg		27B			
10 MMDG7-1-AD J1I120446-9-SAMP 09/08/2011 13:50		6.02g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21797 08/29/11		1.4679g -1.4010g 66.9mg		26A ~~27A~~	1846	9/26/11	
11 MMDG8-1-AD J1I120446-10-SAMP 09/08/2011 14:05		6.01g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21798 08/29/11		1.4570g -1.3913g 65.7mg		26B			
12 MMDG9-1-AD J1I120446-11-SAMP 09/08/2011 14:20		6.00g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21799 08/29/11		1.4836g -1.4136g 70.0mg		26C			
13 MMDHC-1-AD J1I120446-12-SAMP 09/08/2011 14:30		6.01g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21800 08/29/11		1.4732g -1.4061g 67.1mg		26D			
14 MMDHD-1-AD J1I120446-13-SAMP 09/08/2011 08:15		6.03g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21801 08/29/11		1.4646g -1.3963g 68.3mg		31A	1927		

Scr: Alpha: Beta:

TestAmerica Laboratories, Inc.

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9/15/2011 2:34:38 PM

Sample Preparation/Analysis

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

Balance Id:1120373922

Pipet #: _____

AnalyDueDate: 10/03/2011

Sep1 DT/Tm Tech:

Batch: 1256121 pCi/g

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,SannohS

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MMD6K-1-AA-B J1I130000-121-BLK		6.00g,in	SRTA21802 08/29/11	1.5	1.4907g -1.3988g	50min	31B	1927	9/26/11 DD	
09/13/2011 12:47 pd		AmtRec:	#Containers: 1		91.9mg ✓		Scr:	Alpha:		Beta:
16 MMD6K-1-AC-C J1I130000-121-LCS		6.02g,in	STSB1665 06/14/11		1.4731g -1.3806g		31D			
09/13/2011 12:47 pd		AmtRec:	#Containers: 1		92.5mg ✓		Scr:	Alpha:		Beta:

Comments:

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

MMDGV1AD-SAMP Constituent List:

Sr-90	RDL:1	pCi/g	LCL:70	UCL:130	RPD:35
MMD6K1AA-BLK:					
Sr-90	RDL:1	pCi/g	LCL:	UCL:	RPD:
MMD6K1AC-LCS:					
Sr-90	RDL:1	pCi/g	LCL:70	UCL:130	RPD:35

MMDGV1AD-SAMP Calc Info:

Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
MMD6K1AA-BLK:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
MMD6K1AC-LCS:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

TestAmerica Laboratories, Inc.

9/29/2011 11:45:38 AM

ICOC Fraction Transfer/Status Report

ByDate: 9/29/2010, 10/4/2011, Batch: '1256121', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1256121						
AC		Rev1C	**SannohS**	9/15/2011 1:38:38 PM		
SC			MauclerlS	IsBatched	9/13/2011 12:54:23 PM	ICOC_RADCALC v4.8.49
SC			SannohS	InPrep	9/15/2011 1:38:38 PM	RL-PRP-003 Revision 2
SC			WoodT	InPrep2	9/20/2011 4:38:37 AM	RL-PRP-003 REVISION 2
SC			WoodT	Prep1C	9/20/2011 4:41:18 AM	RL-PRP-003 REVISION 2
SC			BouslaughP	Prep1C	9/20/2011 10:55:41 AM	RL-PRP-003 REVISION 2
SC			AshworthA	Sep2C	9/26/2011 1:43:40 PM	RL-GPC-003 REVISION 1
SC			ClarkR	InCnt1	9/26/2011 1:58:44 PM	RL-CI-006 REVISION 1
SC			DawkinsO	CalcC	9/27/2011 12:47:31 AM	RL-CI-006 REVISION 1
SC			norton|	Rev1C	9/29/2011 11:45:29 AM	RL-DR-001 Rev 2
AC			**WoodT**	9/20/2011 4:38:37		
AC			**WoodT**	9/20/2011 4:41:18		
AC			**BouslaughP**	9/20/2011 10:55:41		
AC			**AshworthA**	9/26/2011 1:43:40 PM		
AC			**ClarkR**	9/26/2011 1:58:44 PM		
AC			**DawkinsO**	9/27/2011 12:47:31		
AC			**norton|**	9/29/2011 11:45:29		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

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Grp Rec Cnt: 8

ICOCFractions v4.8.44

WCH SOIL

9/14/2011 5:55:59 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

PRIORITY

Pipet #: _____

AnalyDueDate: 10/03/2011 J01273

Sep1 DT/Tm Tech:

Batch: 1256122 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 1255176 DWEA, 1256121 CHTH, 1256122 AXTA, 1256123 ATS6, 1256124 AFS4, 1256126 5SS3, 1256127 7SSR, 1256128 6ASO,

Prep Tech: ,SannohS

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MMDGV-1-AH J1I120446-1-SAMP 09/08/2011 08:15			389.60g,in AmtRec: 1X60MLAG;1XLP	389.60g #Containers: 2		5250	700	G11 Scr:	1314 Alpha:	9/15/11 [illegible] Beta:	
2 MMDG0-1-AH J1I120446-2-SAMP 09/08/2011 08:20			399.20g,in AmtRec: 1X60MLAG;1XLP	399.20g #Containers: 2				G7 Scr:	1315 Alpha:		Beta:
3 MMDG1-1-AH J1I120446-3-SAMP 09/08/2011 08:35			377.60g,in AmtRec: 1X60MLAG;1XLP	377.60g #Containers: 2				G10 Scr:	1315 Alpha:		Beta:
4 MMDG2-1-AH J1I120446-4-SAMP 09/08/2011 08:40			391.50g,in AmtRec: 1X60MLAG;1XLP	391.50g #Containers: 2				G13 Scr:	1317 Alpha:		Beta:
5 MMDG3-1-AH J1I120446-5-SAMP 09/08/2011 08:50			373.60g,in AmtRec: 1X60MLAG;1XLP	373.60g #Containers: 2				G11 Scr:	1648 Alpha:	9/15/11 [illegible] Beta:	
6 MMDG4-1-AH J1I120446-6-SAMP 09/08/2011 08:55			381.30g,in AmtRec: 1X60MLAG;1XLP	381.30g #Containers: 2				G14 Scr:	1648 Alpha:		Beta:
7 MMDG4-1-AK-X J1I120446-6-DUP 09/08/2011 08:55			418.70g,in AmtRec: 1X60MLAG;1XLP	418.70g #Containers: 2				G7 Scr:	1649 Alpha:		Beta:

TestAmerica Laboratories, Inc.

9/14/2011 5:56:00 PM

Sample Preparation/Analysis

PRIORITY

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: 10/03/2011

Sep1 DT/Tm Tech:

Batch: 1256122 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MMDG5-1-AH J1I120446-7-SAMP 09/08/2011 13:30			353.60g,in AmtRec: 1X60MLAG;1XLP	353.60g #Containers: 2		5000	200	G10 Scr:	1649 Alpha:	9/15 Tam Beta:	
9 MMDG6-1-AH J1I120446-8-SAMP 09/08/2011 13:40			371.90g,in AmtRec: 1X60MLAG;1XLP	371.90g #Containers: 2				G13 Scr:	1656 Alpha:		Beta:
10 MMDG7-1-AH J1I120446-9-SAMP 09/08/2011 13:50			352.40g,in AmtRec: 1X60MLAG;1XLP	352.40g #Containers: 2				G11 Scr:	2017 Alpha:	9/15/11 OKD Beta:	
11 MMDG8-1-AH J1I120446-10-SAMP 09/08/2011 14:05			355.00g,in AmtRec: 1X60MLAG;1XLP	355.00g #Containers: 2				G14 Scr:	2018 Alpha:		Beta:
12 MMDG9-1-AH J1I120446-11-SAMP 09/08/2011 14:20			381.10g,in AmtRec: 1X60MLAG;1XLP	381.10g #Containers: 2				G7 Scr:	2019 Alpha:		Beta:
13 MMDHC-1-AH J1I120446-12-SAMP 09/08/2011 14:30			403.10g,in AmtRec: 1X60MLAG;1XLP	403.10g #Containers: 2				G10 Scr:	2019 Alpha:		Beta:
14 MMDHD-1-AH J1I120446-13-SAMP 09/08/2011 08:15			401.90g,in AmtRec: 1X60MLAG;1XLP	401.90g #Containers: 2				G13 Scr:	2020 Alpha:		Beta:

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9/14/2011 5:56:02 PM

Sample Preparation/Analysis

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

PRIORITY

Balance Id:1120421763

Pipet #: _____

AnalyDueDate: 10/03/2011

Sep1 DT/Tm Tech:

Batch: 1256122 pCi/g

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
18MMD6M-1-AA-B			348.00g,in	348.00g		S200	200	G14	2351	9/15/11	
J11130000-122-BLK											
09/13/2011 12:47 pd			AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:
16MMD6M-1-AC-C			350.10g,in	350.10g	qc20009 08/04/09,pd 09/01/09,r			G7	2355	9/15/11	
J11130000-122-LCS											
09/13/2011 12:47 pd			AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

Comments:

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

MMDGV1AH-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:

MMD6M1AA-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:

MMD6M1AC-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						

MMDGV1AH-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

MMD6M1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

MMD6M1AC-LCS:

TestAmerica Laboratories, Inc.

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9/14/2011 5:56:02 PM

Sample Preparation/Analysis

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

PRIORITY

Balance Id:1120421763
Pipet #: _____
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,SannohS

AnalyDueDate: 10/03/2011

Batch: 1256122 pCi/g
SEQ Batch, Test: None

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

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

9/28/2011 12:05:37 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/28/2010, 10/3/2011, Batch: '1256122', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus		Accepting		Comments
1256122						
AC		Rev1C	SannohS	9/14/2011 10:25:24		
SC			MauclerIS	IsBatched	9/13/2011 12:54:27 PM	ICOC_RADCALC v4.8.49
SC			SannohS	InPrep	9/14/2011 10:25:24 AM	RL-GAM-001 REVISION 1
SC			DawkinsO	InCnt1	9/14/2011 8:23:24 PM	RL-CI-007 REVISION 1
SC			DawkinsO	CalcC	9/16/2011 12:26:10 AM	RL-CI-007 REVISION 1
SC			antonsonI	Rev1C	9/28/2011 12:04:49 PM	RL-DR-001 Rev 2
AC			DawkinsO	9/14/2011 8:23:24 PM		
AC			DawkinsO	9/16/2011 12:26:10		
AC			antonsonI	9/28/2011 12:04:49		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

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Grp Rec Cnt: 4

ICOCFractions v4.8.44

15,16

9/13/2011 12:48:07 PM

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

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

AnalyDueDate: 10/03/2011

Batch: 1256123 SOIL pCi/g PRIORITY PM, Quote: RW2, 27038
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MMDGV-1-AG J1I120446-1-SAMP 09/08/2011 08:15		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
2 MMDG0-1-AG J1I120446-2-SAMP 09/08/2011 08:20		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
3 MMDG1-1-AG J1I120446-3-SAMP 09/08/2011 08:35		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
4 MMDG2-1-AG J1I120446-4-SAMP 09/08/2011 08:40		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
5 MMDG3-1-AG J1I120446-5-SAMP 09/08/2011 08:50		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
6 MMDG3-1-AK-X J1I120446-5-DUP 09/08/2011 08:50		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
7 MMDG4-1-AG J1I120446-6-SAMP 09/08/2011 08:55		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

9/13/2011 12:48:07 PM

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

Balance Id:
Pipet #:

AnalyDueDate: 10/03/2011

Sep1 DT/Tm Tech:

Batch: 1256123 SOIL pCi/g PM, Quote: RW2, 27038
SEQ Batch, Test: None

Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MMDG5-1-AG J1I120446-7-SAMP 09/08/2011 13:30		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
9 MMDG6-1-AG J1I120446-8-SAMP 09/08/2011 13:40		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
10 MMDG7-1-AG J1I120446-9-SAMP 09/08/2011 13:50		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
11 MMDG8-1-AG J1I120446-10-SAMP 09/08/2011 14:05		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
12 MMDG9-1-AG J1I120446-11-SAMP 09/08/2011 14:20		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
13 MMDHC-1-AG J1I120446-12-SAMP 09/08/2011 14:30		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
14 MMDHD-1-AG J1I120446-13-SAMP 09/08/2011 08:15		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:

9/13/2011 12:48:07 PM

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: 10/03/2011

Batch: 1256123 **pCi/g**

SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MMD6P-1-AA-B J1I130000-123-BLK 09/13/2011 12:47 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
16 MMD6P-1-AC-C J1I130000-123-LCS 09/13/2011 12:47 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
17 MMD6P-1-AD-BN J1I130000-123-IBLK 09/13/2011 12:47 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
18 MMD6P-1-AE-BN J1I130000-123-IBLK 09/13/2011 12:47 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

MMDGV1AG-SAMP Constituent List:
H-3 RDL:400 pCi/g LCL:70 UCL:130 RPD:35
MMD6P1AA-BLK:

MMD6P1AC-LCS:

MMD6P1AD-IBLK:

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: 10/03/2011

Batch: 1256123 pCi/g
SEQ Batch, Test: None

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

MMD6P1AE-IBLK:

MMDGV1AG-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MMD6P1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MMD6P1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MMD6P1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MMD6P1AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

9/26/2011 9:56:36 AM

ICOC Fraction Transfer/Status Report

ByDate: 9/26/2010, 10/1/2011, Batch: '1256123', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1256123						
AC		Rev1C	DefordP	9/19/2011 8:57:58		
SC			MaucieriS	IsBatched	9/13/2011 12:54:42 PM	ICOC_RADCALC v4.8.49
SC			DefordP	Sep1C	9/19/2011 8:57:58 AM	RL-LSC-002 REVISION 1
SC			ClarkR	InCnt1	9/19/2011 12:43:40 PM	RL-CI-005 REVISION 1
SC			ClarkR	CalcC	9/21/2011 9:23:40 AM	RL-CI-005 REVISION 1
SC			nortonj	Rev1C	9/26/2011 9:56:23 AM	RL-DR-001 Rev 2
AC			ClarkR	9/19/2011 12:43:40		
AC			ClarkR	9/21/2011 9:23:40		
AC			nortonj	9/26/2011 9:56:23		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

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Grp Rec Cnt: 4

ICOCFractions v4.8.44

9/13/2011 12:48:09 PM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

AnalyDueDate: 10/03/2011

PRIORITY

Batch: 1256126 SOIL

SEQ Batch, Test: None

PM, Quote: RW2, 27038

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MMDGV-1-AJ J1I120446-1-SAMP 09/08/2011 08:15		5.028 AmtRec: 1X60MLAG;1XLP #Containers: 2				Scr:	Alpha:	Beta:
2 MMDG0-1-AJ J1I120446-2-SAMP 09/08/2011 08:20		5.002 AmtRec: 1X60MLAG;1XLP #Containers: 2				Scr:	Alpha:	Beta:
3 MMDG1-1-AJ J1I120446-3-SAMP 09/08/2011 08:35		5.010 AmtRec: 1X60MLAG;1XLP #Containers: 2				Scr:	Alpha:	Beta:
4 MMDG1-1-AK-X J1I120446-3-DUP 09/08/2011 08:35		5.011 AmtRec: 1X60MLAG;1XLP #Containers: 2				Scr:	Alpha:	Beta:
5 MMDG2-1-AJ J1I120446-4-SAMP 09/08/2011 08:40		5.042 AmtRec: 1X60MLAG;1XLP #Containers: 2				Scr:	Alpha:	Beta:
6 MMDG3-1-AJ J1I120446-5-SAMP 09/08/2011 08:50		5.012 AmtRec: 1X60MLAG;1XLP #Containers: 2				Scr:	Alpha:	Beta:
7 MMDG4-1-AJ J1I120446-6-SAMP 09/08/2011 08:55		4.999 AmtRec: 1X60MLAG;1XLP #Containers: 2				Scr:	Alpha:	Beta:

Testamerica Laboratories, Inc.

9/13/2011 12:48:10 PM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

AnalyDueDate: 10/03/2011

Batch: 1256126 SOIL pCi/g PM, Quote: RW2, 27038
SEQ Batch, Test: None

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MMDG5-1-AJ J1I120446-7-SAMP 09/08/2011 13:30		5.027 AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
9 MMDG6-1-AJ J1I120446-8-SAMP 09/08/2011 13:40		5.001 AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
10 MMDG7-1-AJ J1I120446-9-SAMP 09/08/2011 13:50		5.002 AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
11 MMDG8-1-AJ J1I120446-10-SAMP 09/08/2011 14:05		5.020 AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
12 MMDG9-1-AJ J1I120446-11-SAMP 09/08/2011 14:20		5.016 AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
13 MMDHC-1-AJ J1I120446-12-SAMP 09/08/2011 14:30		5.035 AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
14 MMDHD-1-AJ J1I120446-13-SAMP 09/08/2011 08:15		5.000 AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:

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: 10/03/2011

Batch: 1256126 pCi/g
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MMD6W-1-AA-B J1I130000-126-BLK 09/13/2011 12:47 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
16 MMD6W-1-AC-C J1I130000-126-LCS 09/13/2011 12:47 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
17 MMD6W-1-AD-BN J1I130000-126-IBLK 09/13/2011 12:47 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
18 MMD6W-1-AE-BN J1I130000-126-IBLK 09/13/2011 12:47 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

MMDGV1AJ-SAMP Constituent List:
C-14 RDL:50 pCi/g LCL:70 UCL:130 RPD:35
MMD6W1AA-BLK:

MMD6W1AC-LCS:

MMD6W1AD-IBLK:

TestAmerica Laboratories, Inc.

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: 10/03/2011

Batch: 1256126 pCi/g
SEQ Batch, Test: None

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

MMD6W1AE-IBLK:

MMDGV1AJ-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MMD6W1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MMD6W1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MMD6W1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MMD6W1AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

9/26/2011 2:58:15 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/26/2010, 10/1/2011, Batch: '1256126', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1256126						
AC		**Rev1C**	**DefordP**	9/16/2011 4:38:31 PM		
SC			MaucieriS	IsBatched	9/13/2011 12:55:04 PM	ICOC_RADCALC v4.8.49
SC			DefordP	Sep1C	9/16/2011 4:38:31 PM	RL-LSC-008 REVISION 1
SC			DawkinsO	InCnt1	9/16/2011 6:02:13 PM	RL-CI-005 REVISION 1
SC			DawkinsO	CalcC	9/17/2011 8:07:52 PM	RL-CI-005 REVISION 1
SC			nortonj	Rev1C	9/26/2011 2:58:02 PM	RL-DR-001 Rev 2
AC			**DawkinsO**	9/16/2011 6:02:13 PM		
AC			**DawkinsO**	9/17/2011 8:07:52 PM		
AC			**nortonj**	9/26/2011 2:58:02 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.44

9/15/2011 3:21:00 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 #: _____

AnalyDueDate: 10/03/2011

Sep1 DT/Tm Tech:

Batch: 1256124 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MMDGV-1-AE J1I120446-1-SAMP 09/08/2011 08:15		AmtRec: 1X60MLAG;1XLP	0.25g,in	0.25g #Containers: 2	NITA4360 07/29/11	20 min		Scr:	Alpha:	Beta:
2 MMDG0-1-AE J1I120446-2-SAMP 09/08/2011 08:20		AmtRec: 1X60MLAG;1XLP	0.25g,in	0.25g #Containers: 2	NITA4361 07/29/11			Scr:	Alpha:	Beta:
3 MMDG1-1-AE J1I120446-3-SAMP 09/08/2011 08:35		AmtRec: 1X60MLAG;1XLP	0.25g,in	0.25g #Containers: 2	NITA4362 07/29/11			Scr:	Alpha:	Beta:
4 MMDG2-1-AE J1I120446-4-SAMP 09/08/2011 08:40		AmtRec: 1X60MLAG;1XLP	0.25g,in	0.25g #Containers: 2	NITA4363 07/29/11			Scr:	Alpha:	Beta:
5 MMDG2-1-AK-X J1I120446-4-DUP 09/08/2011 08:40		AmtRec: 1X60MLAG;1XLP	0.25g,in	0.25g #Containers: 2	NITA4364 07/29/11			Scr:	Alpha:	Beta:
6 MMDG3-1-AE J1I120446-5-SAMP 09/08/2011 08:50		AmtRec: 1X60MLAG;1XLP	0.25g,in	0.25g #Containers: 2	NITA4365 07/29/11			Scr:	Alpha:	Beta:
7 MMDG4-1-AE J1I120446-6-SAMP 09/08/2011 08:55		AmtRec: 1X60MLAG;1XLP	0.25g,in	0.25g #Containers: 2	NITA4366 07/29/11			Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

9/15/2011 3:21:01 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 #: _____

AnalyDueDate: 10/03/2011

Sep1 DT/Tm Tech:

Batch: 1256124 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MMDG5-1-AE J1I120446-7-SAMP 09/08/2011 13:30		AmtRec: 1X60MLAG;1XLP	0.25g,in	0.25g #Containers: 2	NITA4367 07/29/11	20 min		Scr:	Alpha:	Beta:
9 MMDG6-1-AE J1I120446-8-SAMP 09/08/2011 13:40		AmtRec: 1X60MLAG;1XLP	0.25g,in	0.25g #Containers: 2	NITA4368 07/29/11			Scr:	Alpha:	Beta:
10 MMDG7-1-AE J1I120446-9-SAMP 09/08/2011 13:50		AmtRec: 1X60MLAG;1XLP	0.25g,in	0.25g #Containers: 2	NITA4369 07/29/11			Scr:	Alpha:	Beta:
11 MMDG8-1-AE J1I120446-10-SAMP 09/08/2011 14:05		AmtRec: 1X60MLAG;1XLP	0.25g,in	0.25g #Containers: 2	NITA4370 07/29/11			Scr:	Alpha:	Beta:
12 MMDG9-1-AE J1I120446-11-SAMP 09/08/2011 14:20		AmtRec: 1X60MLAG;1XLP	0.25g,in	0.25g #Containers: 2	NITA4371 07/29/11			Scr:	Alpha:	Beta:
13 MMDHC-1-AE J1I120446-12-SAMP 09/08/2011 14:30		AmtRec: 1X60MLAG;1XLP	0.25g,in	0.25g #Containers: 2	NITA4372 07/29/11			Scr:	Alpha:	Beta:
14 MMDHD-1-AE J1I120446-13-SAMP 09/08/2011 08:15		AmtRec: 1X60MLAG;1XLP	0.25g,in	0.25g #Containers: 2	NITA4373 07/29/11			Scr:	Alpha:	Beta:

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9/15/2011 3:21:02 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: ,SannohS

AnalyDueDate: 10/03/2011

Batch: 1256124 pCi/g
SEQ Batch, Test: None

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MMD6Q-1-AA-B J1I130000-124-BLK 09/13/2011 12:47 pd		AmtRec:	0.25g,in	0.25g #Containers: 1	NITA4374 07/29/11	20 min		Scr:	Alpha:	Beta:
16 MMD6Q-1-AC-C J1I130000-124-LCS 09/13/2011 12:47 pd		AmtRec:	0.25g,in	0.25g #Containers: 1	NISA1473 07/12/11			Scr:	Alpha:	Beta:
17 MMD6Q-1-AD-BN J1I130000-124-IBLK 09/13/2011 12:47 pd		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:
18 MMD6Q-1-AE-BN J1I130000-124-IBLK 09/13/2011 12:47 pd		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:

Comments: Part (~1/4) of LCS spilt during Ni seperation SL 9-22-11

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

MMDGV1AE-SAMP Constituent List:

Ni-63	RDL:30	pCi/g	LCL:70	UCL:130	RPD:35
MMD6Q1AA-BLK:					
Ni-63	RDL:30	pCi/g	LCL:	UCL:	RPD:
MMD6Q1AC-LCS:					
Ni-63	RDL:30	pCi/g	LCL:70	UCL:130	RPD:35
MMD6Q1AD-IBLK:					
Ni-63	RDL:30	pCi/g	LCL:	UCL:	RPD:

TestAmerica Laboratories, Inc.

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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: 10/03/2011

Batch: 1256124 pCi/g
SEQ Batch, Test: None

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

```
MMD6Q1AE-IBLK:
 Ni-63        RDL:30          pCi/g     LCL:        UCL:        RPD:
MMDGV1AE-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MMD6Q1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MMD6Q1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MMD6Q1AD-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MMD6Q1AE-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```


TestAmerica Laboratories, Inc.

9/26/2011 3:00:51 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/26/2010, 10/1/2011, Batch: '1256124', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting				Comments
1256124							
AC		**Rev1C**	**SannohS**	9/15/2011 2:38:58 PM			
SC			MauclerIS	IsBatched	9/13/2011 12:54:51 PM		ICOC_RADCALC v4.8.49
SC			SannohS	InPrep	9/15/2011 2:38:58 PM		RL-PRP-003 Revision 2
SC			WoodT	Prep1C	9/19/2011 3:53:04 AM		RL-PRP-003 REVISION 2
SC			BouslaughP	Prep1C	9/19/2011 8:55:29 AM		RL-PRP-003 REVISION 2
SC			DawkinsO	InCnt1	9/21/2011 8:24:19 PM		RL-CI-005 REVISION 1
SC			ClarkR	CalcC	9/23/2011 9:49:58 AM		RL-CI-005 REVISION 1
SC			nortonj	Rev1C	9/26/2011 3:00:39 PM		RL-DR-001 Rev 2
AC			**WoodT**	9/19/2011 3:53:04			
AC			**BouslaughP**	9/19/2011 8:55:29			
AC			**DawkinsO**	9/21/2011 8:24:19 PM			
AC			**ClarkR**	9/23/2011 9:49:58			
AC			**nortonj**	9/26/2011 3:00:39 PM			

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 6

ICOCFractions v4.8.44

9/12/2011 4:19:24 PM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

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

AnalyDueDate: 10/03/2011

Batch: 1255176 SOIL mg/kg PM, Quote: RW2, 27038
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MMDGV-1-AA J1I120446-1-SAMP 09/08/2011 08:15		2.5023 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:
2 MMDGV-1-AK-S J1I120446-1-MS 09/08/2011 08:15		2.5019 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:
3 MMDGV-1-AL-X J1I120446-1-DUP 09/08/2011 08:15		2.5020 / pbcrO4: 2.5076 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:
4 MMDG0-1-AA J1I120446-2-SAMP 09/08/2011 08:20		2.5029 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:
5 MMDG1-1-AA J1I120446-3-SAMP 09/08/2011 08:35		2.5032 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:
6 MMDG2-1-AA J1I120446-4-SAMP 09/08/2011 08:40		2.5012 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:
7 MMDG3-1-AA J1I120446-5-SAMP 09/08/2011 08:50		2.5015 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

9/12/2011 4:19:24 PM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

Balance Id:
Pipet #:

AnalyDueDate: 10/03/2011

Sep1 DT/Tm Tech:

Batch: 1255176 SOIL mg/kg PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MMDG4-1-AA J1I120446-6-SAMP 09/08/2011 08:55		2.5019 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:
9 MMDG5-1-AA J1I120446-7-SAMP 09/08/2011 13:30		2.5023 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:
10 MMDG6-1-AA J1I120446-8-SAMP 09/08/2011 13:40		2.5033 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:
11 MMDG7-1-AA J1I120446-9-SAMP 09/08/2011 13:50		2.5031 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:
12 MMDG8-1-AA J1I120446-10-SAMP 09/08/2011 14:05		2.5032 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:
13 MMDG9-1-AA J1I120446-11-SAMP 09/08/2011 14:20		2.5092 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:
14 MMDHC-1-AA J1I120446-12-SAMP 09/08/2011 14:30		2.5019 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:

Testamerica Laboratories, Inc.

9/12/2011 4:19:25 PM

Sample Preparation/Analysis

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

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

AnalyDueDate: 10/03/2011

Batch: 1255176 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 Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MMDHD-1-AA J1I120446-13-SAMP 09/08/2011 08:15		2.5038 AmtRec: 1X60MLAG;1XLP	#Containers: 2						Scr: Alpha:	Beta:
16 MMDKQ-1-AA-B J1I120000-176-BLK 09/12/2011 16:19 pd		AmtRec:	#Containers: 1						Scr: Alpha:	Beta:
17 MMDKQ-1-AC-C J1I120000-176-LCS 09/12/2011 16:19 pd		AmtRec:	#Containers: 1						Scr: Alpha:	Beta:

Comments:

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

MMDGV1AA-SAMP Constituent List:

MMDGV1AK-MS Constituent List:

MMDKQ1AA-BLK:

MMDKQ1AC-LCS:

MMDGV1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MMDGV1AK-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MMDKQ1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Sample Preparation/Analysis

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

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

AnalyDueDate: 10/03/2011

Batch: 1255176 mg/kg
SEQ Batch, Test: None

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

MMDKQ1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-20223-1

SDG Number: J01273

Job Description: SAF# RC-075

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

Attention: Joan H Kessner

RECEIVED
SEP 2011

Approved for release.
Kae E Yoder
Project Manager II
9/30/2011 1:26 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
09/30/2011

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: 280-20223-1

SDG #: J01273
SAF#: RC-075

Date SDG Closed: September 14, 2011
Data Deliverable: 21 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1KV86	280-20223-1	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV87	280-20223-2	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV88	280-20223-3	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV89	280-20223-4	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV90	280-20223-5	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV91	280-20223-6	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV92	280-20223-7	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV93	280-20223-8	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV94	280-20223-9	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV95	280-20223-10	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV96	280-20223-11	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV97	280-20223-12	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV98	280-20223-13	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV99	280-20223-14	6010/7471/8310	6010B/7471A/8310

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 9/14/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 2.3 C, 2.9 C, 4.1 C, 5.6 C and 2.7 C.

GC SEMIVOLATILES - SW846 8082 - PCBs
The RPD between the primary and confirmation columns exceeded 25% for Aroclor 1260 in sample J1KV91. The result has been flagged with a "P".

The laboratory noted that sample J1KV91 contained more than one Aroclor component. Results should be considered estimated due to shared peaks.

No other anomalies were encountered.

GC SEMIVOLATILES - SW846 8151A - HERBICIDEs
The RPD between the primary and confirmation columns exceeded 40% for 2,4-DB in all the samples presented in this report. The lower of the two values has been reported, as matrix interference is evident. The results have been flagged with an "X".

Low levels of 2,4-DB are present in the method blank associated with batch 280-87173. Because the concentration in the method blank is not present at a level greater than half the reporting limit, corrective action is deemed unnecessary. Associated sample results present above the MDL and/or RL have been flagged with a "B".

The MS aliquot of the MS/MSD performed on sample J1KV86 exhibited percent recoveries outside the control limits for Dinoseb and 2,4,5-TP (Silvex), and the associated sample results have been flagged "N". In addition, several RPD limits were exceeded. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

GC SEMIVOLATILES - NWTPH-Dx - DRO
No anomalies were encountered.

HPLC - SW846 8310 - PAHs
No anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A
Serial dilution of a digestate in batch 280-86257 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. In some cases, samples required a 5X dilution prior to the analysis of Beryllium, 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.

Low levels of Barium are present in the method blank associated with batch 280-86257. 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 J1KV86; therefore, control limits are not applicable.

Silicon was recovered outside the control limits in the Matrix Spike performed on sample J1KV86, and the associated sample result has been flagged "N". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Lab Section	Qualifier	Description
GC Semi VOA		
	B	Analyte was found in the associated method blank as well as in the sample.
	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
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	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.
General Chemistry		
	U	Analyzed for but not detected.
HPLC/IC		
	U	Analyzed for but not detected.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL DEN	SW846 8082	
Ultrasonic Extraction			SW846 3550C
Herbicides (GC)	TAL DEN	SW846 8151A	
Extraction (Herbicides)			SW846 8151A
Northwest - Semi-Volatile Petroleum Products (GC)	TAL DEN	NWTPH NWTPH-Dx	
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

NWTPH = Northwest Total Petroleum Hydrocarbon

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

METHOD / ANALYST SUMMARY

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Method	Analyst	Analyst ID
SW846 8082	Jackson, Todd D	TDJ
SW846 8151A	Wells, David	DW
NWTPH NWTPH-Dx	Birdsell, Matthew R	MRB
SW846 6010B	Trudell, Lynn-Anne	LT
SW846 7471A	Bowen, Heidi E	HEB
ASTM D-2216	Berry III, Paul B	PBB
SW846 8310	Fiedler, Heather K	HKF

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-20223-1	J1KV86	Solid	09/08/2011 0815	09/14/2011 0900
280-20223-2	J1KV87	Solid	09/08/2011 0820	09/14/2011 0900
280-20223-3	J1KV88	Solid	09/08/2011 0835	09/14/2011 0900
280-20223-4	J1KV89	Solid	09/08/2011 0840	09/14/2011 0900
280-20223-5	J1KV90	Solid	09/08/2011 0850	09/14/2011 0900
280-20223-6	J1KV91	Solid	09/08/2011 0855	09/14/2011 0900
280-20223-7	J1KV92	Solid	09/08/2011 1330	09/14/2011 0900
280-20223-8	J1KV93	Solid	09/08/2011 1340	09/14/2011 0900
280-20223-9	J1KV94	Solid	09/08/2011 1350	09/14/2011 0900
280-20223-10	J1KV95	Solid	09/08/2011 1405	09/14/2011 0900
280-20223-11	J1KV96	Solid	09/08/2011 1420	09/14/2011 0900
280-20223-12	J1KV97	Solid	09/08/2011 1430	09/14/2011 0900
280-20223-13	J1KV98	Solid	09/08/2011 0815	09/14/2011 0900
280-20223-14EB	J1KV99	Solid	09/08/2011 0920	09/14/2011 0900

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV86**

Lab Sample ID: 280-20223-1
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 09/08/2011 0815
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87305	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-86878	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/21/2011 1324			Injection Volume:	1 uL
Prep Date:	09/20/2011 1126			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	111		59 - 130
Tetrachloro-m-xylene	93		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV87**

Lab Sample ID: 280-20223-2
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 09/08/2011 0820
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87305	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-86878	Initial Weight/Volume:	32.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/21/2011 1356			Injection Volume:	1 uL
Prep Date:	09/20/2011 1126			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.3
Aroclor 1221		7.5	U	7.5	15
Aroclor 1232		1.9	U	1.9	9.3
Aroclor 1242		4.4	U	4.4	9.3
Aroclor 1248		4.4	U	4.4	9.3
Aroclor 1254		2.4	U	2.4	9.3
Aroclor 1260		2.4	U	2.4	9.3

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	97		59 - 130
Tetrachloro-m-xylene	99		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV88**

Lab Sample ID: 280-20223-3
Client Matrix: Solid
% Moisture: 0.4

Date Sampled: 09/08/2011 0835
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87305	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-86878	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/21/2011 1532			Injection Volume:	1 uL
Prep Date:	09/20/2011 1126			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	110		59 - 130
Tetrachloro-m-xylene	96		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV89**

Lab Sample ID: 280-20223-4
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 09/08/2011 0840
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87305	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-86878	Initial Weight/Volume:	31.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/21/2011 1603			Injection Volume:	1 uL
Prep Date:	09/20/2011 1126			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.5
Aroclor 1221		7.6	U	7.6	16
Aroclor 1232		1.9	U	1.9	9.5
Aroclor 1242		4.4	U	4.4	9.5
Aroclor 1248		4.4	U	4.4	9.5
Aroclor 1254		2.5	U	2.5	9.5
Aroclor 1260		2.5	U	2.5	9.5

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	106		59 - 130
Tetrachloro-m-xylene	98		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV90**

Lab Sample ID: 280-20223-5
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 09/08/2011 0850
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87305	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-86878	Initial Weight/Volume:	31.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/21/2011 1635			Injection Volume:	1 uL
Prep Date:	09/20/2011 1126			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.5
Aroclor 1221		7.6	U	7.6	16
Aroclor 1232		1.9	U	1.9	9.5
Aroclor 1242		4.4	U	4.4	9.5
Aroclor 1248		4.4	U	4.4	9.5
Aroclor 1254		2.5	U	2.5	9.5
Aroclor 1260		2.5	U	2.5	9.5

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	101		59 - 130
Tetrachloro-m-xylene	88		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV91**

Lab Sample ID: 280-20223-6
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 09/08/2011 0855
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87305	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-86878	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/21/2011 1707			Injection Volume:	1 uL
Prep Date:	09/20/2011 1126			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.9
Aroclor 1221		7.9	U	7.9	16
Aroclor 1232		2.0	U	2.0	9.9
Aroclor 1242		4.6	U	4.6	9.9
Aroclor 1248		4.6	U	4.6	9.9
Aroclor 1254		44		2.6	9.9
Aroclor 1260		11	P	2.6	9.9

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	101		59 - 130
Tetrachloro-m-xylene	96		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV92**

Lab Sample ID: 280-20223-7
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 09/08/2011 1330
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87305	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-86878	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/21/2011 1811			Injection Volume:	1 uL
Prep Date:	09/20/2011 1126			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	107		59 - 130
Tetrachloro-m-xylene	90		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV93**

Lab Sample ID: 280-20223-8
Client Matrix: Solid
% Moisture: 0.4

Date Sampled: 09/08/2011 1340
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87305	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-86878	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/21/2011 1843			Injection Volume:	1 uL
Prep Date:	09/20/2011 1126			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	105		59 - 130
Tetrachloro-m-xylene	91		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV94**

Lab Sample ID: 280-20223-9
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 09/08/2011 1350
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87305	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-86878	Initial Weight/Volume:	32.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/21/2011 1914			Injection Volume:	1 uL
Prep Date:	09/20/2011 1126			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.4
Aroclor 1221		7.5	U	7.5	16
Aroclor 1232		1.9	U	1.9	9.4
Aroclor 1242		4.4	U	4.4	9.4
Aroclor 1248		4.4	U	4.4	9.4
Aroclor 1254		2.4	U	2.4	9.4
Aroclor 1260		2.4	U	2.4	9.4

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	106		59 - 130
Tetrachloro-m-xylene	94		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV95**

Lab Sample ID: 280-20223-10
Client Matrix: Solid

% Moisture: 0.4

Date Sampled: 09/08/2011 1405
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87305	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-86878	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/21/2011 1946			Injection Volume:	1 uL
Prep Date:	09/20/2011 1126			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	101		59 - 130
Tetrachloro-m-xylene	86		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV96**

Lab Sample ID: 280-20223-11
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 09/08/2011 1420
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87305	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-86878	Initial Weight/Volume:	31.5 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/21/2011 2018			Injection Volume:	1 uL
Prep Date:	09/20/2011 1126			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	102		59 - 130
Tetrachloro-m-xylene	91		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV97**

Lab Sample ID: 280-20223-12
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 09/08/2011 1430
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87305	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-86878	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/21/2011 2050			Injection Volume:	1 uL
Prep Date:	09/20/2011 1126			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.5
Aroclor 1221		7.7	U	7.7	16
Aroclor 1232		1.9	U	1.9	9.5
Aroclor 1242		4.4	U	4.4	9.5
Aroclor 1248		4.4	U	4.4	9.5
Aroclor 1254		2.5	U	2.5	9.5
Aroclor 1260		2.5	U	2.5	9.5

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	100		59 - 130
Tetrachloro-m-xylene	87		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV98**

Lab Sample ID: 280-20223-13
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 09/08/2011 0815
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87305	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-86878	Initial Weight/Volume:	31.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/21/2011 2121			Injection Volume:	1 uL
Prep Date:	09/20/2011 1126			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.5
Aroclor 1221		7.6	U	7.6	16
Aroclor 1232		1.9	U	1.9	9.5
Aroclor 1242		4.4	U	4.4	9.5
Aroclor 1248		4.4	U	4.4	9.5
Aroclor 1254		2.5	U	2.5	9.5
Aroclor 1260		2.5	U	2.5	9.5

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	101		59 - 130
Tetrachloro-m-xylene	90		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV86**

Lab Sample ID: 280-20223-1
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 09/08/2011 0815
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-88035	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-87173	Initial Weight/Volume:	51.1 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/23/2011 1640			Injection Volume:	1 uL
Prep Date:	09/21/2011 1800			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.3	U	2.3	20
2,4-Dichlorophenoxyacetic acid		14	U	14	79
2,4-DB		8.4	J X B	2.8	79
Dalapon		1.4	U	1.4	39
Dicamba		1.4	U	1.4	39
Dichlorprop		3.2	U	3.2	79
Dinoseb		1.4	U N	1.4	12
MCPA		2000	U	2000	7900
2,4,5-TP (Silvex)		1.4	U N	1.4	20
MCPP		2000	U	2000	7900

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	103		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV87**

Lab Sample ID: 280-20223-2
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 09/08/2011 0820
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-88035	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-87173	Initial Weight/Volume:	51.1 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/23/2011 1745			Injection Volume:	1 uL
Prep Date:	09/21/2011 1800			Result Type:	PRIMARY

Analyte DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T	2.3	U	2.3	20
2,4-Dichlorophenoxyacetic acid	14	U	14	79
2,4-DB	8.7	J X B	2.8	79
Dalapon	1.4	U	1.4	39
Dicamba	1.4	U	1.4	39
Dichlorprop	3.2	U	3.2	79
Dinoseb	1.4	U	1.4	12
MCPA	2000	U	2000	7900
2,4,5-TP (Silvex)	1.4	U	1.4	20
MCPP	2000	U	2000	7900

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	89		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV88**

Lab Sample ID: 280-20223-3
Client Matrix: Solid
% Moisture: 0.4

Date Sampled: 09/08/2011 0835
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-88035	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-87173	Initial Weight/Volume:	52.0 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/23/2011 1807			Injection Volume:	1 uL
Prep Date:	09/21/2011 1800			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.2	U	2.2	19
2,4-Dichlorophenoxyacetic acid		14	U	14	77
2,4-DB		8.5	J X B	2.7	77
Dalapon		1.4	U	1.4	39
Dicamba		1.4	U	1.4	39
Dichlorprop		3.1	U	3.1	77
Dinoseb		1.4	U	1.4	12
MCPA		1900	U	1900	7700
2,4,5-TP (Silvex)		1.4	U	1.4	19
MCPP		1900	U	1900	7700

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	89		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV89**

Lab Sample ID: 280-20223-4
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 09/08/2011 0840
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-88035	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-87173	Initial Weight/Volume:	51.9 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/23/2011 1828			Injection Volume:	1 uL
Prep Date:	09/21/2011 1800			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.2	U	2.2	19
2,4-Dichlorophenoxyacetic acid		14	U	14	78
2,4-DB		6.9	J X B	2.7	78
Dalapon		1.4	U	1.4	39
Dicamba		1.4	U	1.4	39
Dichlorprop		3.1	U	3.1	78
Dinoseb		1.4	U	1.4	12
MCPA		1900	U	1900	7800
2,4,5-TP (Silvex)		1.4	U	1.4	19
MCPP		1900	U	1900	7800

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	82		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV90**

Lab Sample ID: 280-20223-5
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 09/08/2011 0850
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-88035	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-87173	Initial Weight/Volume:	52.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/23/2011 1850			Injection Volume:	1 uL
Prep Date:	09/21/2011 1800			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.2	U	2.2	19
2,4-Dichlorophenoxyacetic acid		14	U	14	77
2,4-DB		8.1	J X B	2.7	77
Dalapon		1.4	U	1.4	39
Dicamba		1.4	U	1.4	39
Dichlorprop		3.1	U	3.1	77
Dinoseb		1.4	U	1.4	12
MCPA		1900	U	1900	7700
2,4,5-TP (Silvex)		1.4	U	1.4	19
MCPP		1900	U	1900	7700

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	96		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV91**

Lab Sample ID: 280-20223-6
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 09/08/2011 0855
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-88035	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-87173	Initial Weight/Volume:	50.9 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/23/2011 1933			Injection Volume:	1 uL
Prep Date:	09/21/2011 1800			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.3	U	2.3	20
2,4-Dichlorophenoxyacetic acid		14	U	14	79
2,4-DB		9.4	J X B	2.8	79
Dalapon		1.4	U	1.4	40
Dicamba		1.4	U	1.4	40
Dichlorprop		3.2	U	3.2	79
Dinoseb		1.4	U	1.4	12
MCPA		2000	U	2000	7900
2,4,5-TP (Silvex)		1.4	U	1.4	20
MCPP		2000	U	2000	7900

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	91		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV92**

Lab Sample ID: 280-20223-7
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 09/08/2011 1330
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-88035	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-87173	Initial Weight/Volume:	52.9 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/23/2011 1954			Injection Volume:	1 uL
Prep Date:	09/21/2011 1800			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.2	U	2.2	19
2,4-Dichlorophenoxyacetic acid		13	U	13	76
2,4-DB		18	J X B	2.7	76
Dalapon		1.3	U	1.3	38
Dicamba		1.3	U	1.3	38
Dichlorprop		3.0	U	3.0	76
Dinoseb		1.3	U	1.3	11
MCPA		1900	U	1900	7600
2,4,5-TP (Silvex)		1.3	U	1.3	19
MCPP		1900	U	1900	7600

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	83		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV93**

Lab Sample ID: 280-20223-8
Client Matrix: Solid
% Moisture: 0.4

Date Sampled: 09/08/2011 1340
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-88035	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-87173	Initial Weight/Volume:	50.9 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/23/2011 2016			Injection Volume:	1 uL
Prep Date:	09/21/2011 1800			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.3	U	2.3	20
2,4-Dichlorophenoxyacetic acid		14	U	14	79
2,4-DB		10	J X B	2.8	79
Dalapon		1.4	U	1.4	39
Dicamba		1.4	U	1.4	39
Dichlorprop		3.2	U	3.2	79
Dinoseb		1.4	U	1.4	12
MCPA		2000	U	2000	7900
2,4,5-TP (Silvex)		1.4	U	1.4	20
MCPP		2000	U	2000	7900

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	88		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV94**

Lab Sample ID: 280-20223-9
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 09/08/2011 1350
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-88035	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-87173	Initial Weight/Volume:	50.9 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/23/2011 2037			Injection Volume:	1 uL
Prep Date:	09/21/2011 1800			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.3	U	2.3	20
2,4-Dichlorophenoxyacetic acid		14	U	14	79
2,4-DB		9.4	J X B	2.8	79
Dalapon		1.4	U	1.4	40
Dicamba		1.4	U	1.4	40
Dichlorprop		3.2	U	3.2	79
Dinoseb		1.4	U	1.4	12
MCPA		2000	U	2000	7900
2,4,5-TP (Silvex)		1.4	U	1.4	20
MCPP		2000	U	2000	7900

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	100		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV95**

Lab Sample ID: 280-20223-10
Client Matrix: Solid
% Moisture: 0.4

Date Sampled: 09/08/2011 1405
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-88035	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-87173	Initial Weight/Volume:	51.9 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/23/2011 2058			Injection Volume:	1 uL
Prep Date:	09/21/2011 1800			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.2	U	2.2	19
2,4-Dichlorophenoxyacetic acid		14	U	14	77
2,4-DB		8.3	J X B	2.7	77
Dalapon		1.4	U	1.4	39
Dicamba		1.4	U	1.4	39
Dichlorprop		3.1	U	3.1	77
Dinoseb		1.4	U	1.4	12
MCPA		1900	U	1900	7700
2,4,5-TP (Silvex)		1.4	U	1.4	19
MCPP		1900	U	1900	7700

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	96		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV96**

Lab Sample ID: 280-20223-11
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 09/08/2011 1420
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-88035	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-87173	Initial Weight/Volume:	52.4 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/23/2011 2120			Injection Volume:	1 uL
Prep Date:	09/21/2011 1800			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.2	U	2.2	19
2,4-Dichlorophenoxyacetic acid		13	U	13	77
2,4-DB		6.5	J X B	2.7	77
Dalapon		1.3	U	1.3	38
Dicamba		1.3	U	1.3	38
Dichlorprop		3.1	U	3.1	77
Dinoseb		1.3	U	1.3	12
MCPA		1900	U	1900	7700
2,4,5-TP (Silvex)		1.3	U	1.3	19
MCPP		1900	U	1900	7700

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	93		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV97**

Lab Sample ID: 280-20223-12
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 09/08/2011 1430
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-88035	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-87173	Initial Weight/Volume:	51.7 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/23/2011 2141			Injection Volume:	1 uL
Prep Date:	09/21/2011 1800			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.2	U	2.2	19
2,4-Dichlorophenoxyacetic acid		14	U	14	78
2,4-DB		7.4	J X B	2.7	78
Dalapon		1.4	U	1.4	39
Dicamba		1.4	U	1.4	39
Dichlorprop		3.1	U	3.1	78
Dinoseb		1.4	U	1.4	12
MCPA		1900	U	1900	7800
2,4,5-TP (Silvex)		1.4	U	1.4	19
MCPP		1900	U	1900	7800

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	95		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV98**

Lab Sample ID: 280-20223-13
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 09/08/2011 0815
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-88035	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-87173	Initial Weight/Volume:	51.8 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/23/2011 2202			Injection Volume:	1 uL
Prep Date:	09/21/2011 1800			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.2	U	2.2	19
2,4-Dichlorophenoxyacetic acid		14	U	14	78
2,4-DB		6.3	J X B	2.7	78
Dalapon		1.4	U	1.4	39
Dicamba		1.4	U	1.4	39
Dichlorprop		3.1	U	3.1	78
Dinoseb		1.4	U	1.4	12
MCPA		1900	U	1900	7800
2,4,5-TP (Silvex)		1.4	U	1.4	19
MCPP		1900	U	1900	7800

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	92		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV86**

Lab Sample ID: 280-20223-1
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 09/08/2011 0815
Date Received: 09/14/2011 0900

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88176	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86604	Lab File ID:	055B0801.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Analysis Date:	09/26/2011 1320			Final Weight/Volume:	1000 uL
Prep Date:	09/17/2011 1132			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		970	U	970	3900
C10-C28		660	U	660	3900

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV87**

Lab Sample ID: 280-20223-2
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 09/08/2011 0820
Date Received: 09/14/2011 0900

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88176	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86604	Lab File ID:	058B1101.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Analysis Date:	09/26/2011 1502			Final Weight/Volume:	1000 uL
Prep Date:	09/17/2011 1132			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1000	J	970	3900
C10-C28		790	J	660	3900

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	94		49 - 115

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV88**

Lab Sample ID: 280-20223-3
Client Matrix: Solid
% Moisture: 0.4

Date Sampled: 09/08/2011 0835
Date Received: 09/14/2011 0900

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88176	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86604	Lab File ID:	059B1201.D
Dilution:	1.0			Initial Weight/Volume:	32.9 g
Analysis Date:	09/26/2011 1536			Final Weight/Volume:	1000 uL
Prep Date:	09/17/2011 1132			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		910	U	910	3700
C10-C28		620	U	620	3700

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	85		49 - 115

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV89**

Lab Sample ID: 280-20223-4
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 09/08/2011 0840
Date Received: 09/14/2011 0900

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88176	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86604	Lab File ID:	060B1301.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	09/26/2011 1610			Final Weight/Volume:	1000 uL
Prep Date:	09/17/2011 1132			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		960	U	960	3900
C10-C28		660	U	660	3900

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV90**

Lab Sample ID: 280-20223-5
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 09/08/2011 0850
Date Received: 09/14/2011 0900

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88176	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86604	Lab File ID:	061B1401.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Analysis Date:	09/26/2011 1644			Final Weight/Volume:	1000 uL
Prep Date:	09/17/2011 1132			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1100	J	980	3900
C10-C28		820	J	660	3900

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV91**

Lab Sample ID: 280-20223-6
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 09/08/2011 0855
Date Received: 09/14/2011 0900

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88176	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86604	Lab File ID:	063B1601.D
Dilution:	1.0			Initial Weight/Volume:	31.5 g
Analysis Date:	09/26/2011 1752			Final Weight/Volume:	1000 uL
Prep Date:	09/17/2011 1132			Injection Volume:	1 uL

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

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV92**

Lab Sample ID: 280-20223-7
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 09/08/2011 1330
Date Received: 09/14/2011 0900

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88176	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86604	Lab File ID:	064B1701.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Analysis Date:	09/26/2011 1826			Final Weight/Volume:	1000 uL
Prep Date:	09/17/2011 1132			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		970	U	970	3900
C10-C28		660	U	660	3900

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV93**

Lab Sample ID: 280-20223-8
Client Matrix: Solid
% Moisture: 0.4

Date Sampled: 09/08/2011 1340
Date Received: 09/14/2011 0900

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88176	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86604	Lab File ID:	065B1801.D
Dilution:	1.0			Initial Weight/Volume:	31.7 g
Analysis Date:	09/26/2011 1859			Final Weight/Volume:	1000 uL
Prep Date:	09/17/2011 1132			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1600	J	950	3800
C10-C28		700	J	640	3800

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV94**

Lab Sample ID: 280-20223-9
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 09/08/2011 1350
Date Received: 09/14/2011 0900

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88176	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86604	Lab File ID:	066B1901.D
Dilution:	1.0			Initial Weight/Volume:	31.8 g
Analysis Date:	09/26/2011 1933			Final Weight/Volume:	1000 uL
Prep Date:	09/17/2011 1132			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1700	J	950	3800
C10-C28		850	J	640	3800

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV95**

Lab Sample ID: 280-20223-10
Client Matrix: Solid
% Moisture: 0.4

Date Sampled: 09/08/2011 1405
Date Received: 09/14/2011 0900

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88176	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86604	Lab File ID:	067B2001.D
Dilution:	1.0			Initial Weight/Volume:	32.4 g
Analysis Date:	09/26/2011 2006			Final Weight/Volume:	1000 uL
Prep Date:	09/17/2011 1132			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1500	J	930	3700
C10-C28		1200	J	630	3700

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV96**

Lab Sample ID: 280-20223-11
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 09/08/2011 1420
Date Received: 09/14/2011 0900

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88176	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86604	Lab File ID:	068B2101.D
Dilution:	1.0			Initial Weight/Volume:	32.6 g
Analysis Date:	09/26/2011 2041			Final Weight/Volume:	1000 uL
Prep Date:	09/17/2011 1132			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1400	J	920	3700
C10-C28		960	J	630	3700

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV97**

Lab Sample ID: 280-20223-12
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 09/08/2011 1430
Date Received: 09/14/2011 0900

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88176	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86604	Lab File ID:	069B2201.D
Dilution:	1.0			Initial Weight/Volume:	32.8 g
Analysis Date:	09/26/2011 2115			Final Weight/Volume:	1000 uL
Prep Date:	09/17/2011 1132			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1200	J	920	3700
C10-C28		630	J	620	3700

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	85		49 - 115

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV98**

Lab Sample ID: 280-20223-13
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 09/08/2011 0815
Date Received: 09/14/2011 0900

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88176	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86604	Lab File ID:	070B2301.D
Dilution:	1.0			Initial Weight/Volume:	32.4 g
Analysis Date:	09/26/2011 2149			Final Weight/Volume:	1000 uL
Prep Date:	09/17/2011 1132			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		930	U	930	3700
C10-C28		630	U	630	3700

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV86**

Lab Sample ID: 280-20223-1
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 09/08/2011 0815
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87761	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86850	Initial Weight/Volume:	31.9 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/26/2011 1717			Injection Volume:	20 uL
Prep Date:	09/19/2011 2025			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.5	U	9.5	95
Acenaphthylene		8.5	U	8.5	95
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.0	U	3.0	14
Benzo[a]pyrene		6.1	U	6.1	14
Benzo[b]fluoranthene		4.0	U	4.0	14
Benzo[g,h,i]perylene		6.8	U	6.8	28
Benzo[k]fluoranthene		3.7	U	3.7	14
Chrysene		4.6	U	4.6	38
Dibenzo(a,h)anthracene		10	U	10	28
Fluoranthene		12	U	12	38
Fluorene		5.0	U	5.0	28
Indeno[1,2,3-cd]pyrene		11	U	11	28
Naphthalene		11	U	11	95
Phenanthrene		11	U	11	38
Pyrene		11	U	11	38

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	88		72 - 115

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV87**

Lab Sample ID: 280-20223-2
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 09/08/2011 0820
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87761	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86850	Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/26/2011 1748			Injection Volume:	20 uL
Prep Date:	09/19/2011 2025			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.8	U	9.8	98
Acenaphthylene		8.8	U	8.8	98
Anthracene		3.0	U	3.0	20
Benzo[a]anthracene		3.1	U	3.1	15
Benzo[a]pyrene		6.3	U	6.3	15
Benzo[b]fluoranthene		4.1	U	4.1	15
Benzo[g,h,i]perylene		7.0	U	7.0	29
Benzo[k]fluoranthene		3.8	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		5.2	U	5.2	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	98
Phenanthrene		12	U	12	39
Pyrene		12	U	12	39

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV88**

Lab Sample ID: 280-20223-3
Client Matrix: Solid
% Moisture: 0.4

Date Sampled: 09/08/2011 0835
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87761	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86850	Initial Weight/Volume:	31.4 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/26/2011 1818			Injection Volume:	20 uL
Prep Date:	09/19/2011 2025			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.6	U	9.6	96
Acenaphthylene		8.6	U	8.6	96
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.1	U	3.1	14
Benzo[a]pyrene		6.2	U	6.2	14
Benzo[b]fluoranthene		4.0	U	4.0	14
Benzo[g,h,i]perylene		6.9	U	6.9	29
Benzo[k]fluoranthene		3.8	U	3.8	14
Chrysene		4.6	U	4.6	38
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		12	U	12	38
Fluorene		5.1	U	5.1	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	96
Phenanthrene		12	U	12	38
Pyrene		12	U	12	38

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	97		72 - 115

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV89**

Lab Sample ID: 280-20223-4
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 09/08/2011 0840
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87761	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86850	Initial Weight/Volume:	31.9 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/26/2011 1849			Injection Volume:	20 uL
Prep Date:	09/19/2011 2025			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.5	U	9.5	95
Acenaphthylene		8.5	U	8.5	95
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.0	U	3.0	14
Benzo[a]pyrene		6.1	U	6.1	14
Benzo[b]fluoranthene		4.0	U	4.0	14
Benzo[g,h,i]perylene		6.8	U	6.8	28
Benzo[k]fluoranthene		3.7	U	3.7	14
Chrysene		4.6	U	4.6	38
Dibenzo(a,h)anthracene		10	U	10	28
Fluoranthene		12	U	12	38
Fluorene		5.0	U	5.0	28
Indeno[1,2,3-cd]pyrene		11	U	11	28
Naphthalene		11	U	11	95
Phenanthrene		11	U	11	38
Pyrene		11	U	11	38

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	97		72 - 115

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV90**

Lab Sample ID: 280-20223-5
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 09/08/2011 0850
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87761	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86850	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/26/2011 1919			Injection Volume:	20 uL
Prep Date:	09/19/2011 2025			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.9	U	9.9	99
Acenaphthylene		8.9	U	8.9	99
Anthracene		3.0	U	3.0	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		6.4	U	6.4	15
Benzo[b]fluoranthene		4.2	U	4.2	15
Benzo[g,h,i]perylene		7.1	U	7.1	30
Benzo[k]fluoranthene		3.9	U	3.9	15
Chrysene		4.8	U	4.8	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	U	13	40
Fluorene		5.2	U	5.2	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	99
Phenanthrene		12	U	12	40
Pyrene		12	U	12	40

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV91**

Lab Sample ID: 280-20223-6
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 09/08/2011 0855
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87761	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86850	Initial Weight/Volume:	32.4 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/26/2011 1950			Injection Volume:	20 uL
Prep Date:	09/19/2011 2025			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.3	U	9.3	93
Acenaphthylene		8.4	U	8.4	93
Anthracene		2.8	U	2.8	19
Benzo[a]anthracene		3.0	U	3.0	14
Benzo[a]pyrene		6.0	U	6.0	14
Benzo[b]fluoranthene		3.9	U	3.9	14
Benzo[g,h,i]perylene		6.7	U	6.7	28
Benzo[k]fluoranthene		3.7	U	3.7	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	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	95		72 - 115

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV92**

Lab Sample ID: 280-20223-7
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 09/08/2011 1330
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87761	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86850	Initial Weight/Volume:	31.4 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/26/2011 2020			Injection Volume:	20 uL
Prep Date:	09/19/2011 2025			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.6	U	9.6	96
Acenaphthylene		8.6	U	8.6	96
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.1	U	3.1	14
Benzo[a]pyrene		6.2	U	6.2	14
Benzo[b]fluoranthene		4.0	U	4.0	14
Benzo[g,h,i]perylene		6.9	U	6.9	29
Benzo[k]fluoranthene		3.8	U	3.8	14
Chrysene		4.6	U	4.6	38
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		12	U	12	38
Fluorene		5.1	U	5.1	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	96
Phenanthrene		12	U	12	38
Pyrene		12	U	12	38

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	88		72 - 115

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV93**

Lab Sample ID: 280-20223-8
Client Matrix: Solid
% Moisture: 0.4

Date Sampled: 09/08/2011 1340
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87761	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86850	Initial Weight/Volume:	31.9 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/26/2011 2051			Injection Volume:	20 uL
Prep Date:	09/19/2011 2025			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.4	U	9.4	94
Acenaphthylene		8.5	U	8.5	94
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.0	U	3.0	14
Benzo[a]pyrene		6.1	U	6.1	14
Benzo[b]fluoranthene		4.0	U	4.0	14
Benzo[g,h,i]perylene		6.8	U	6.8	28
Benzo[k]fluoranthene		3.7	U	3.7	14
Chrysene		4.6	U	4.6	38
Dibenzo(a,h)anthracene		10	U	10	28
Fluoranthene		12	U	12	38
Fluorene		5.0	U	5.0	28
Indeno[1,2,3-cd]pyrene		11	U	11	28
Naphthalene		11	U	11	94
Phenanthrene		11	U	11	38
Pyrene		11	U	11	38

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV94**

Lab Sample ID: 280-20223-9
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 09/08/2011 1350
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87761	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86850	Initial Weight/Volume:	31.7 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/26/2011 2152			Injection Volume:	20 uL
Prep Date:	09/19/2011 2025			Result Type:	PRIMARY

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

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV95**

Lab Sample ID: 280-20223-10
Client Matrix: Solid
% Moisture: 0.4

Date Sampled: 09/08/2011 1405
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87761	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86850	Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/26/2011 2222			Injection Volume:	20 uL
Prep Date:	09/19/2011 2025			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.8	U	9.8	98
Acenaphthylene		8.8	U	8.8	98
Anthracene		3.0	U	3.0	20
Benzo[a]anthracene		3.1	U	3.1	15
Benzo[a]pyrene		6.3	U	6.3	15
Benzo[b]fluoranthene		4.1	U	4.1	15
Benzo[g,h,i]perylene		7.0	U	7.0	29
Benzo[k]fluoranthene		3.8	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	98
Phenanthrene		12	U	12	39
Pyrene		12	U	12	39

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	97		72 - 115

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV96**

Lab Sample ID: 280-20223-11
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 09/08/2011 1420
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87761	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86850	Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/26/2011 2253			Injection Volume:	20 uL
Prep Date:	09/19/2011 2025			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)	96		72 - 115

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV97**

Lab Sample ID: 280-20223-12
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 09/08/2011 1430
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87761	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86850	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/27/2011 0024			Injection Volume:	20 uL
Prep Date:	09/19/2011 2025			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.8	U	9.8	98
Acenaphthylene		8.8	U	8.8	98
Anthracene		3.0	U	3.0	20
Benzo[a]anthracene		3.1	U	3.1	15
Benzo[a]pyrene		6.3	U	6.3	15
Benzo[b]fluoranthene		4.1	U	4.1	15
Benzo[g,h,i]perylene		7.1	U	7.1	29
Benzo[k]fluoranthene		3.9	U	3.9	15
Chrysene		4.8	U	4.8	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		13	U	13	39
Fluorene		5.2	U	5.2	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	98
Phenanthrene		12	U	12	39
Pyrene		12	U	12	39

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV98**

Lab Sample ID: 280-20223-13
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 09/08/2011 0815
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87761	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86850	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/27/2011 0055			Injection Volume:	20 uL
Prep Date:	09/19/2011 2025			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.6	U	9.6	96
Acenaphthylene		8.6	U	8.6	96
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.0	U	3.0	14
Benzo[a]pyrene		6.1	U	6.1	14
Benzo[b]fluoranthene		4.0	U	4.0	14
Benzo[g,h,i]perylene		6.9	U	6.9	29
Benzo[k]fluoranthene		3.8	U	3.8	14
Chrysene		4.6	U	4.6	38
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		12	U	12	38
Fluorene		5.0	U	5.0	29
Indeno[1,2,3-cd]pyrene		11	U	11	29
Naphthalene		11	U	11	96
Phenanthrene		11	U	11	38
Pyrene		11	U	11	38

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV99**

Lab Sample ID: 280-20223-14EB
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 09/08/2011 0920
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87761	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86850	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/27/2011 0125			Injection Volume:	20 uL
Prep Date:	09/19/2011 2025			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.6	U	9.6	96
Acenaphthylene		8.7	U	8.7	96
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.1	U	3.1	14
Benzo[a]pyrene		6.2	U	6.2	14
Benzo[b]fluoranthene		4.0	U	4.0	14
Benzo[g,h,i]perylene		6.9	U	6.9	29
Benzo[k]fluoranthene		3.8	U	3.8	14
Chrysene		4.7	U	4.7	38
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		13	U	13	38
Fluorene		5.1	U	5.1	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	96
Phenanthrene		12	U	12	38
Pyrene		12	U	12	38

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV86**

Lab Sample ID: 280-20223-1
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 09/08/2011 0815
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88303	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26a092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	09/28/2011 1218			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6450		1.4	4.6
Antimony		0.54	B	0.35	0.55
Arsenic		2.4		0.61	0.92
Barium		62.0	X	0.070	0.46
Boron		1.4	B	0.91	1.8
Cadmium		0.050	B	0.038	0.18
Calcium		8170		13.0	46.2
Chromium		8.9		0.054	0.18
Cobalt		6.9	X	0.092	0.92
Iron		18400		3.5	4.6
Magnesium		5030	X	3.4	18.5
Manganese		294	X	0.092	0.92
Molybdenum		0.52	B	0.24	1.8
Nickel		10.6	X	0.11	3.7
Potassium		1060		37.9	277
Selenium		1.1		0.79	0.92
Silicon		458	N	5.2	9.2
Silver		0.15	U	0.15	0.18
Sodium		259		54.5	111
Zinc		37.1	X	0.37	0.92

Analysis Method:	6010B	Analysis Batch:	280-88399	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26c092811.asc
Dilution:	5.0			Initial Weight/Volume:	1.09 g
Analysis Date:	09/29/2011 0149			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Beryllium		0.43	B	0.15	0.92
Copper		17.0		1.0	4.6
Lead		2.2	B	1.2	2.3
Vanadium		51.5		0.43	9.2

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86371	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-85972	Lab File ID:	34A091511.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	09/15/2011 1714			Final Weight/Volume:	50 mL
Prep Date:	09/15/2011 0925				

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV87**

Lab Sample ID: 280-20223-2
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 09/08/2011 0820
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88303	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26a092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.02 g
Analysis Date:	09/28/2011 1228			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7420		1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		2.6		0.65	0.99
Barium		68.0	X	0.075	0.49
Boron		1.7	B	0.97	2.0
Cadmium		0.067	B	0.040	0.20
Calcium		6710		13.9	49.3
Chromium		9.7		0.057	0.20
Cobalt		7.9	X	0.099	0.99
Iron		20100		3.7	4.9
Magnesium		4700	X	3.7	19.7
Manganese		335	X	0.099	0.99
Molybdenum		0.49	B	0.26	2.0
Nickel		10.9	X	0.12	3.9
Potassium		1360		40.5	296
Selenium		1.3		0.85	0.99
Silicon		410		5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		270		58.2	118
Zinc		41.0	X	0.39	0.99

Analysis Method:	6010B	Analysis Batch:	280-88399	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26c092811.asc
Dilution:	5.0			Initial Weight/Volume:	1.02 g
Analysis Date:	09/29/2011 0159			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Beryllium		0.49	B	0.16	0.99
Copper		18.0		1.1	4.9
Lead		3.4		1.3	2.5
Vanadium		50.3		0.46	9.9

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86371	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-85972	Lab File ID:	34A091511.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	09/15/2011 1716			Final Weight/Volume:	50 mL
Prep Date:	09/15/2011 0925				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0090	B	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV88**

Lab Sample ID: 280-20223-3
Client Matrix: Solid
% Moisture: 0.4

Date Sampled: 09/08/2011 0835
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88303	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26a092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	09/28/2011 1241			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7020		1.4	4.4
Antimony		0.34	U	0.34	0.53
Arsenic		2.5		0.59	0.89
Barium		61.9	X	0.068	0.44
Boron		1.1	B	0.87	1.8
Cadmium		0.062	B	0.036	0.18
Calcium		9890		12.5	44.4
Chromium		9.6		0.052	0.18
Cobalt		7.1	X	0.089	0.89
Iron		18100		3.4	4.4
Magnesium		4530	X	3.3	17.8
Manganese		297	X	0.089	0.89
Molybdenum		0.23	U	0.23	1.8
Nickel		10.6	X	0.11	3.6
Potassium		1150		36.4	267
Selenium		0.76	U	0.76	0.89
Silicon		463		5.0	8.9
Silver		0.14	U	0.14	0.18
Sodium		275		52.4	107
Zinc		36.7	X	0.35	0.89

Analysis Method:	6010B	Analysis Batch:	280-88399	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26c092811.asc
Dilution:	5.0			Initial Weight/Volume:	1.13 g
Analysis Date:	09/29/2011 0202			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Beryllium		0.41	B	0.15	0.89
Copper		17.9		0.96	4.4
Lead		3.1		1.2	2.2
Vanadium		45.3		0.42	8.9

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86371	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-85972	Lab File ID:	34A091511.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	09/15/2011 1718			Final Weight/Volume:	50 mL
Prep Date:	09/15/2011 0925				

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV89**

Lab Sample ID: 280-20223-4
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 09/08/2011 0840
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88303	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26a092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	09/28/2011 1244			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7350		1.5	4.7
Antimony		0.36	U	0.36	0.57
Arsenic		2.6		0.63	0.95
Barium		67.2	X	0.072	0.47
Boron		1.2	B	0.93	1.9
Cadmium		0.070	B	0.039	0.19
Calcium		6850		13.4	47.4
Chromium		9.1		0.055	0.19
Cobalt		7.6	X	0.095	0.95
Iron		19800		3.6	4.7
Magnesium		4610	X	3.5	19.0
Manganese		318	X	0.095	0.95
Molybdenum		0.25	U	0.25	1.9
Nickel		10.6	X	0.12	3.8
Potassium		1340		38.9	285
Selenium		0.82	U	0.82	0.95
Silicon		539		5.4	9.5
Silver		0.15	U	0.15	0.19
Sodium		257		56.0	114
Zinc		40.6	X	0.38	0.95

Analysis Method:	6010B	Analysis Batch:	280-88399	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26c092811.asc
Dilution:	5.0			Initial Weight/Volume:	1.06 g
Analysis Date:	09/29/2011 0204			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Beryllium		0.47	B	0.16	0.95
Copper		17.8		1.0	4.7
Lead		3.6		1.3	2.4
Vanadium		51.9		0.45	9.5

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86371	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-85972	Lab File ID:	34A091511.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	09/15/2011 1721			Final Weight/Volume:	50 mL
Prep Date:	09/15/2011 0925				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.019		0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV90**

Lab Sample ID: 280-20223-5
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 09/08/2011 0850
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88303	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26a092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	09/28/2011 1246			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7040		1.4	4.5
Antimony		0.35	U	0.35	0.54
Arsenic		2.0		0.60	0.91
Barium		66.1	X	0.069	0.45
Boron		1.2	B	0.89	1.8
Cadmium		0.063	B	0.037	0.18
Calcium		7450		12.8	45.4
Chromium		9.0		0.053	0.18
Cobalt		7.4	X	0.091	0.91
Iron		19700		3.5	4.5
Magnesium		4760	X	3.4	18.2
Manganese		305	X	0.091	0.91
Molybdenum		0.24	U	0.24	1.8
Nickel		12.8	X	0.11	3.6
Potassium		1220		37.2	272
Selenium		0.78	U	0.78	0.91
Silicon		455		5.1	9.1
Silver		0.15	U	0.15	0.18
Sodium		278		53.6	109
Zinc		39.5	X	0.36	0.91

Analysis Method:	6010B	Analysis Batch:	280-88399	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26c092811.asc
Dilution:	5.0			Initial Weight/Volume:	1.11 g
Analysis Date:	09/29/2011 0207			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Beryllium		0.15	U	0.15	0.91
Copper		17.3		0.99	4.5
Lead		2.1	B	1.2	2.3
Vanadium		55.0		0.43	9.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86371	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-85972	Lab File ID:	34A091511.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	09/15/2011 1728			Final Weight/Volume:	50 mL
Prep Date:	09/15/2011 0925				

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV91**

Lab Sample ID: 280-20223-6
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 09/08/2011 0855
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88303	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26a092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	09/28/2011 1249			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6330		1.5	4.8
Antimony		0.37	U	0.37	0.58
Arsenic		1.9		0.64	0.97
Barium		61.5	X	0.074	0.48
Boron		1.0	B	0.95	1.9
Cadmium		0.056	B	0.040	0.19
Calcium		6220		13.7	48.4
Chromium		8.0		0.056	0.19
Cobalt		7.3	X	0.097	0.97
Iron		18900		3.7	4.8
Magnesium		4290	X	3.6	19.4
Manganese		297	X	0.097	0.97
Molybdenum		0.25	U	0.25	1.9
Nickel		10.3	X	0.12	3.9
Potassium		1160		39.7	290
Selenium		0.83	U	0.83	0.97
Silicon		505		5.5	9.7
Silver		0.15	U	0.15	0.19
Sodium		237		57.1	116
Zinc		37.8	X	0.39	0.97

Analysis Method:	6010B	Analysis Batch:	280-88399	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26c092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	09/29/2011 0220			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Beryllium		0.032	U	0.032	0.19
Copper		3.2		0.21	0.97
Lead		0.40	B	0.26	0.48
Vanadium		11.3		0.091	1.9

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86371	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-85972	Lab File ID:	34A091511.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	09/15/2011 1730			Final Weight/Volume:	50 mL
Prep Date:	09/15/2011 0925				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0068	B	0.0051	0.016

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV92**

Lab Sample ID: 280-20223-7
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 09/08/2011 1330
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88303	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26a092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	09/28/2011 1252			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7250		1.4	4.4
Antimony		0.34	U	0.34	0.53
Arsenic		2.2		0.59	0.89
Barium		69.9	X	0.068	0.44
Boron		1.5	B	0.87	1.8
Cadmium		0.081	B	0.036	0.18
Calcium		5580		12.5	44.5
Chromium		8.7		0.052	0.18
Cobalt		7.3	X	0.089	0.89
Iron		18400		3.4	4.4
Magnesium		4110	X	3.3	17.8
Manganese		317	X	0.089	0.89
Molybdenum		0.23	U	0.23	1.8
Nickel		9.9	X	0.11	3.6
Potassium		1440		36.5	267
Selenium		0.76	U	0.76	0.89
Silicon		403		5.0	8.9
Silver		0.14	U	0.14	0.18
Sodium		256		52.5	107
Zinc		37.9	X	0.35	0.89

Analysis Method:	6010B	Analysis Batch:	280-88399	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26c092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	09/29/2011 0222			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Beryllium		0.097	B	0.029	0.18
Copper		3.8		0.19	0.89
Lead		0.74		0.24	0.44
Vanadium		10.0		0.084	1.8

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86371	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-85972	Lab File ID:	34A091511.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	09/15/2011 1732			Final Weight/Volume:	50 mL
Prep Date:	09/15/2011 0925				

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV93**

Lab Sample ID: 280-20223-8
Client Matrix: Solid
% Moisture: 0.4

Date Sampled: 09/08/2011 1340
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88303	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26a092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.19 g
Analysis Date:	09/28/2011 1255			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6080		1.3	4.2
Antimony		0.32	U	0.32	0.51
Arsenic		1.9		0.56	0.84
Barium		55.7	X	0.064	0.42
Boron		1.1	B	0.83	1.7
Cadmium		0.068	B	0.035	0.17
Calcium		5960		11.9	42.2
Chromium		7.6		0.049	0.17
Cobalt		6.7	X	0.084	0.84
Iron		16900		3.2	4.2
Magnesium		3810	X	3.1	16.9
Manganese		257	X	0.084	0.84
Molybdenum		0.22	U	0.22	1.7
Nickel		8.8	X	0.10	3.4
Potassium		1190		34.6	253
Selenium		0.73	U	0.73	0.84
Silicon		323		4.8	8.4
Silver		0.14	U	0.14	0.17
Sodium		234		49.8	101
Zinc		35.0	X	0.34	0.84

Analysis Method:	6010B	Analysis Batch:	280-88399	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26c092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.19 g
Analysis Date:	09/29/2011 0225			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Beryllium		0.094	B	0.028	0.17
Copper		3.6		0.18	0.84
Lead		0.62		0.23	0.42
Vanadium		10.2		0.079	1.7

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86371	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-85972	Lab File ID:	34A091511.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	09/15/2011 1735			Final Weight/Volume:	50 mL
Prep Date:	09/15/2011 0925				

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV94**

Lab Sample ID: 280-20223-9
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 09/08/2011 1350
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88303	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26a092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	09/28/2011 1257			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8270		1.4	4.5
Antimony		0.34	U	0.34	0.53
Arsenic		2.3		0.59	0.89
Barium		69.9	X	0.068	0.45
Boron		1.6	B	0.87	1.8
Cadmium		0.073	B	0.036	0.18
Calcium		5340		12.5	44.5
Chromium		10.3		0.052	0.18
Cobalt		8.0	X	0.089	0.89
Iron		20200		3.4	4.5
Magnesium		4610	X	3.3	17.8
Manganese		331	X	0.089	0.89
Molybdenum		0.23	U	0.23	1.8
Nickel		11.1	X	0.11	3.6
Potassium		1780		36.5	267
Selenium		0.77	U	0.77	0.89
Silicon		387		5.0	8.9
Silver		0.14	U	0.14	0.18
Sodium		265		52.5	107
Zinc		43.0	X	0.35	0.89

Analysis Method:	6010B	Analysis Batch:	280-88399	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26c092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	09/29/2011 0227			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Beryllium		0.10	B	0.029	0.18
Copper		3.8		0.19	0.89
Lead		1.0		0.24	0.45
Vanadium		11.1		0.084	1.8

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86371	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-85972	Lab File ID:	34A091511.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	09/15/2011 1737			Final Weight/Volume:	50 mL
Prep Date:	09/15/2011 0925				

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV95**

Lab Sample ID: 280-20223-10
Client Matrix: Solid
% Moisture: 0.4

Date Sampled: 09/08/2011 1405
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88303	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26a092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	09/28/2011 1300			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8260		1.5	4.8
Antimony		0.36	U	0.36	0.57
Arsenic		2.6		0.63	0.96
Barium		66.1	X	0.073	0.48
Boron		1.5	B	0.94	1.9
Cadmium		0.046	B	0.039	0.19
Calcium		5450		13.5	47.8
Chromium		9.9		0.055	0.19
Cobalt		7.9	X	0.096	0.96
Iron		19900		3.6	4.8
Magnesium		4790	X	3.5	19.1
Manganese		328	X	0.096	0.96
Molybdenum		0.25	U	0.25	1.9
Nickel		11.4	X	0.12	3.8
Potassium		1660		39.2	287
Selenium		0.82	U	0.82	0.96
Silicon		428		5.4	9.6
Silver		0.15	U	0.15	0.19
Sodium		280		56.4	115
Zinc		41.8	X	0.38	0.96

Analysis Method:	6010B	Analysis Batch:	280-88399	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26c092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	09/29/2011 0230			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Beryllium		0.032	U	0.032	0.19
Copper		3.7		0.21	0.96
Lead		0.86		0.26	0.48
Vanadium		10.3		0.090	1.9

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86371	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-85972	Lab File ID:	34A091511.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	09/15/2011 1739			Final Weight/Volume:	50 mL
Prep Date:	09/15/2011 0925				

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV96**

Lab Sample ID: 280-20223-11
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 09/08/2011 1420
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88303	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26a092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	09/28/2011 1313			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4950		1.4	4.6
Antimony		0.35	U	0.35	0.55
Arsenic		1.2		0.60	0.91
Barium		51.6	X	0.069	0.46
Boron		0.90	U	0.90	1.8
Cadmium		0.069	B	0.037	0.18
Calcium		5280		12.9	45.7
Chromium		5.3		0.053	0.18
Cobalt		7.3	X	0.091	0.91
Iron		19800		3.5	4.6
Magnesium		3840	X	3.4	18.3
Manganese		274	X	0.091	0.91
Molybdenum		0.24	U	0.24	1.8
Nickel		7.6	X	0.11	3.7
Potassium		672		37.5	274
Selenium		0.79	U	0.79	0.91
Silicon		271		5.2	9.1
Silver		0.15	U	0.15	0.18
Sodium		409		53.9	110
Zinc		41.4	X	0.36	0.91

Analysis Method:	6010B	Analysis Batch:	280-88399	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26c092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	09/29/2011 0232			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Beryllium		0.10	B	0.030	0.18
Copper		3.3		0.20	0.91
Lead		0.26	B	0.25	0.46
Vanadium		13.4		0.086	1.8

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86371	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-85972	Lab File ID:	34A091511.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	09/15/2011 1742			Final Weight/Volume:	50 mL
Prep Date:	09/15/2011 0925				

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV97**

Lab Sample ID: 280-20223-12
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 09/08/2011 1430
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88303	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26a092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	09/28/2011 1316			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6430		1.5	4.7
Antimony		0.36	U	0.36	0.57
Arsenic		2.1		0.63	0.95
Barium		67.2	X	0.072	0.47
Boron		1.0	B	0.93	1.9
Cadmium		0.081	B	0.039	0.19
Calcium		5940		13.4	47.4
Chromium		7.3		0.055	0.19
Cobalt		8.7	X	0.095	0.95
Iron		22200		3.6	4.7
Magnesium		4750	X	3.5	19.0
Manganese		441	X	0.095	0.95
Molybdenum		0.25	U	0.25	1.9
Nickel		10.7	X	0.12	3.8
Potassium		1230		38.9	284
Selenium		0.82	U	0.82	0.95
Silicon		411		5.4	9.5
Silver		0.15	U	0.15	0.19
Sodium		296		55.9	114
Zinc		43.6	X	0.38	0.95

Analysis Method:	6010B	Analysis Batch:	280-88399	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26c092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	09/29/2011 0235			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Beryllium		0.11	B	0.031	0.19
Copper		3.5		0.21	0.95
Lead		0.61		0.26	0.47
Vanadium		12.8		0.089	1.9

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86371	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-85972	Lab File ID:	34A091511.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	09/15/2011 1744			Final Weight/Volume:	50 mL
Prep Date:	09/15/2011 0925				

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV98**

Lab Sample ID: 280-20223-13
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 09/08/2011 0815
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88303	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26a092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	09/28/2011 1319			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6370		1.4	4.5
Antimony		0.34	U	0.34	0.53
Arsenic		2.2		0.59	0.89
Barium		59.6	X	0.068	0.45
Boron		0.99	B	0.87	1.8
Cadmium		0.080	B	0.037	0.18
Calcium		6820		12.6	44.5
Chromium		8.8		0.052	0.18
Cobalt		7.8	X	0.089	0.89
Iron		19200		3.4	4.5
Magnesium		4680	X	3.3	17.8
Manganese		304	X	0.089	0.89
Molybdenum		0.23	U	0.23	1.8
Nickel		11.3	X	0.11	3.6
Potassium		1060		36.5	267
Selenium		0.77	U	0.77	0.89
Silicon		330		5.0	8.9
Silver		0.14	U	0.14	0.18
Sodium		246		52.6	107
Zinc		39.3	X	0.35	0.89

Analysis Method:	6010B	Analysis Batch:	280-88399	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26c092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	09/29/2011 0237			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Beryllium		0.029	U	0.029	0.18
Copper		3.1		0.19	0.89
Lead		0.28	B	0.24	0.45
Vanadium		11.5		0.084	1.8

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86371	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-85972	Lab File ID:	34A091511.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	09/15/2011 1746			Final Weight/Volume:	50 mL
Prep Date:	09/15/2011 0925				

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Client Sample ID: **J1KV99**

Lab Sample ID: 280-20223-14EB
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 09/08/2011 0920
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88303	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86257	Lab File ID:	26a092811.asc
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	09/28/2011 1321			Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		211		1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		0.59	U	0.59	0.90
Barium		3.3	X	0.069	0.45
Beryllium		0.041	B	0.030	0.18
Boron		0.88	U	0.88	1.8
Cadmium		0.037	U	0.037	0.18
Calcium		40.0	B	12.7	45.1
Chromium		0.11	B	0.052	0.18
Cobalt		0.094	B X	0.090	0.90
Copper		0.20	U	0.20	0.90
Iron		1440		3.4	4.5
Lead		0.64		0.24	0.45
Magnesium		24.5	X	3.3	18.0
Manganese		28.0	X	0.090	0.90
Molybdenum		0.23	U	0.23	1.8
Nickel		0.20	B X	0.11	3.6
Potassium		72.7	B	37.0	270
Selenium		0.78	U	0.78	0.90
Silicon		132		5.1	9.0
Silver		0.14	U	0.14	0.18
Sodium		53.2	U	53.2	108
Vanadium		0.35	B	0.085	1.8
Zinc		1.8	X	0.36	0.90

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86371	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-85972	Lab File ID:	34A091511.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	09/15/2011 1749			Final Weight/Volume:	50 mL
Prep Date:	09/15/2011 0925				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0048	U	0.0048	0.015

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

General Chemistry

Client Sample ID: **J1KV86**

Lab Sample ID: 280-20223-1
Client Matrix: Solid

Date Sampled: 09/08/2011 0815
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.67		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86770 Analysis Date: 09/19/2011 1108 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1KV87**

Lab Sample ID: 280-20223-2
Client Matrix: Solid

Date Sampled: 09/08/2011 0820
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.63		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86770 Analysis Date: 09/19/2011 1108 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

General Chemistry

Client Sample ID: **J1KV88**

Lab Sample ID: 280-20223-3
Client Matrix: Solid

Date Sampled: 09/08/2011 0835
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.45		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86770 Analysis Date: 09/19/2011 1108 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

General Chemistry

Client Sample ID: **J1KV89**

Lab Sample ID: 280-20223-4
Client Matrix: Solid

Date Sampled: 09/08/2011 0840
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.57		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86770 Analysis Date: 09/19/2011 1108 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

General Chemistry

Client Sample ID: **J1KV90**

Lab Sample ID: 280-20223-5
Client Matrix: Solid

Date Sampled: 09/08/2011 0850
Date Received: 09/14/2011 0900

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

Analysis Batch: 280-86770 Analysis Date: 09/19/2011 1108 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

General Chemistry

Client Sample ID: **J1KV91**

Lab Sample ID: 280-20223-6
Client Matrix: Solid

Date Sampled: 09/08/2011 0855
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.69		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86770 Analysis Date: 09/19/2011 1108 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

General Chemistry

Client Sample ID: **J1KV92**

Lab Sample ID: 280-20223-7
Client Matrix: Solid

Date Sampled: 09/08/2011 1330
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.49		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86770 Analysis Date: 09/19/2011 1108 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

General Chemistry

Client Sample ID: **J1KV93**

Lab Sample ID: 280-20223-8
Client Matrix: Solid

Date Sampled: 09/08/2011 1340
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.44		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86770 Analysis Date: 09/19/2011 1108 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

General Chemistry

Client Sample ID: **J1KV94**

Lab Sample ID: 280-20223-9
Client Matrix: Solid

Date Sampled: 09/08/2011 1350
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.57		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86770 Analysis Date: 09/19/2011 1108 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1KV95**

Lab Sample ID: 280-20223-10
Client Matrix: Solid

Date Sampled: 09/08/2011 1405
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.44		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86770 Analysis Date: 09/19/2011 1108 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1KV96**

Lab Sample ID: 280-20223-11
Client Matrix: Solid

Date Sampled: 09/08/2011 1420
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.57		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86770 Analysis Date: 09/19/2011 1108 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

General Chemistry

Client Sample ID: **J1KV97**

Lab Sample ID: 280-20223-12
Client Matrix: Solid

Date Sampled: 09/08/2011 1430
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.50		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86770 Analysis Date: 09/19/2011 1108 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

General Chemistry

Client Sample ID: **J1KV98**

Lab Sample ID: 280-20223-13
Client Matrix: Solid

Date Sampled: 09/08/2011 0815
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.67		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86770 Analysis Date: 09/19/2011 1108 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

General Chemistry

Client Sample ID: **J1KV99**

Lab Sample ID: 280-20223-14EB
Client Matrix: Solid

Date Sampled: 09/08/2011 0920
Date Received: 09/14/2011 0900

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

Analysis Batch: 280-86770 Analysis Date: 09/19/2011 1108 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-86604					
LCS 280-86604/2-A	Lab Control Sample	T	Solid	3550C	
LCSD 280-86604/3-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 280-86604/1-A	Method Blank	T	Solid	3550C	
280-20223-1	J1KV86	T	Solid	3550C	
280-20223-1MS	Matrix Spike	T	Solid	3550C	
280-20223-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-20223-2	J1KV87	T	Solid	3550C	
280-20223-3	J1KV88	T	Solid	3550C	
280-20223-4	J1KV89	T	Solid	3550C	
280-20223-5	J1KV90	T	Solid	3550C	
280-20223-6	J1KV91	T	Solid	3550C	
280-20223-7	J1KV92	T	Solid	3550C	
280-20223-8	J1KV93	T	Solid	3550C	
280-20223-9	J1KV94	T	Solid	3550C	
280-20223-10	J1KV95	T	Solid	3550C	
280-20223-11	J1KV96	T	Solid	3550C	
280-20223-12	J1KV97	T	Solid	3550C	
280-20223-13	J1KV98	T	Solid	3550C	
Prep Batch: 280-86878					
LCS 280-86878/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-86878/1-A	Method Blank	T	Solid	3550C	
280-20223-1	J1KV86	T	Solid	3550C	
280-20223-2	J1KV87	T	Solid	3550C	
280-20223-2MS	Matrix Spike	T	Solid	3550C	
280-20223-2MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-20223-3	J1KV88	T	Solid	3550C	
280-20223-4	J1KV89	T	Solid	3550C	
280-20223-5	J1KV90	T	Solid	3550C	
280-20223-6	J1KV91	T	Solid	3550C	
280-20223-7	J1KV92	T	Solid	3550C	
280-20223-8	J1KV93	T	Solid	3550C	
280-20223-9	J1KV94	T	Solid	3550C	
280-20223-10	J1KV95	T	Solid	3550C	
280-20223-11	J1KV96	T	Solid	3550C	
280-20223-12	J1KV97	T	Solid	3550C	
280-20223-13	J1KV98	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-87173					
LCS 280-87173/2-A	Lab Control Sample	T	Solid	8151A	
MB 280-87173/1-A	Method Blank	T	Solid	8151A	
280-20223-1	J1KV86	T	Solid	8151A	
280-20223-1MS	Matrix Spike	T	Solid	8151A	
280-20223-1MSD	Matrix Spike Duplicate	T	Solid	8151A	
280-20223-2	J1KV87	T	Solid	8151A	
280-20223-3	J1KV88	T	Solid	8151A	
280-20223-4	J1KV89	T	Solid	8151A	
280-20223-5	J1KV90	T	Solid	8151A	
280-20223-6	J1KV91	T	Solid	8151A	
280-20223-7	J1KV92	T	Solid	8151A	
280-20223-8	J1KV93	T	Solid	8151A	
280-20223-9	J1KV94	T	Solid	8151A	
280-20223-10	J1KV95	T	Solid	8151A	
280-20223-11	J1KV96	T	Solid	8151A	
280-20223-12	J1KV97	T	Solid	8151A	
280-20223-13	J1KV98	T	Solid	8151A	
Analysis Batch:280-87305					
LCS 280-86878/2-A	Lab Control Sample	T	Solid	8082	280-86878
MB 280-86878/1-A	Method Blank	T	Solid	8082	280-86878
280-20223-1	J1KV86	T	Solid	8082	280-86878
280-20223-2	J1KV87	T	Solid	8082	280-86878
280-20223-2MS	Matrix Spike	T	Solid	8082	280-86878
280-20223-2MSD	Matrix Spike Duplicate	T	Solid	8082	280-86878
280-20223-3	J1KV88	T	Solid	8082	280-86878
280-20223-4	J1KV89	T	Solid	8082	280-86878
280-20223-5	J1KV90	T	Solid	8082	280-86878
280-20223-6	J1KV91	T	Solid	8082	280-86878
280-20223-7	J1KV92	T	Solid	8082	280-86878
280-20223-8	J1KV93	T	Solid	8082	280-86878
280-20223-9	J1KV94	T	Solid	8082	280-86878
280-20223-10	J1KV95	T	Solid	8082	280-86878
280-20223-11	J1KV96	T	Solid	8082	280-86878
280-20223-12	J1KV97	T	Solid	8082	280-86878
280-20223-13	J1KV98	T	Solid	8082	280-86878

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-88035					
LCS 280-87173/2-A	Lab Control Sample	T	Solid	8151A	280-87173
MB 280-87173/1-A	Method Blank	T	Solid	8151A	280-87173
280-20223-1	J1KV86	T	Solid	8151A	280-87173
280-20223-1MS	Matrix Spike	T	Solid	8151A	280-87173
280-20223-1MSD	Matrix Spike Duplicate	T	Solid	8151A	280-87173
280-20223-2	J1KV87	T	Solid	8151A	280-87173
280-20223-3	J1KV88	T	Solid	8151A	280-87173
280-20223-4	J1KV89	T	Solid	8151A	280-87173
280-20223-5	J1KV90	T	Solid	8151A	280-87173
280-20223-6	J1KV91	T	Solid	8151A	280-87173
280-20223-7	J1KV92	T	Solid	8151A	280-87173
280-20223-8	J1KV93	T	Solid	8151A	280-87173
280-20223-9	J1KV94	T	Solid	8151A	280-87173
280-20223-10	J1KV95	T	Solid	8151A	280-87173
280-20223-11	J1KV96	T	Solid	8151A	280-87173
280-20223-12	J1KV97	T	Solid	8151A	280-87173
280-20223-13	J1KV98	T	Solid	8151A	280-87173
Analysis Batch:280-88176					
LCS 280-86604/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-86604
LCSD 280-86604/3-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Dx	280-86604
MB 280-86604/1-A	Method Blank	T	Solid	NWTPH-Dx	280-86604
280-20223-1	J1KV86	T	Solid	NWTPH-Dx	280-86604
280-20223-1MS	Matrix Spike	T	Solid	NWTPH-Dx	280-86604
280-20223-1MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-86604
280-20223-2	J1KV87	T	Solid	NWTPH-Dx	280-86604
280-20223-3	J1KV88	T	Solid	NWTPH-Dx	280-86604
280-20223-4	J1KV89	T	Solid	NWTPH-Dx	280-86604
280-20223-5	J1KV90	T	Solid	NWTPH-Dx	280-86604
280-20223-6	J1KV91	T	Solid	NWTPH-Dx	280-86604
280-20223-7	J1KV92	T	Solid	NWTPH-Dx	280-86604
280-20223-8	J1KV93	T	Solid	NWTPH-Dx	280-86604
280-20223-9	J1KV94	T	Solid	NWTPH-Dx	280-86604
280-20223-10	J1KV95	T	Solid	NWTPH-Dx	280-86604
280-20223-11	J1KV96	T	Solid	NWTPH-Dx	280-86604
280-20223-12	J1KV97	T	Solid	NWTPH-Dx	280-86604
280-20223-13	J1KV98	T	Solid	NWTPH-Dx	280-86604

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-85972					
LCS 280-85972/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-85972/1-A	Method Blank	T	Solid	7471A	
280-20223-1	J1KV86	T	Solid	7471A	
280-20223-2	J1KV87	T	Solid	7471A	
280-20223-3	J1KV88	T	Solid	7471A	
280-20223-4	J1KV89	T	Solid	7471A	
280-20223-5	J1KV90	T	Solid	7471A	
280-20223-6	J1KV91	T	Solid	7471A	
280-20223-7	J1KV92	T	Solid	7471A	
280-20223-8	J1KV93	T	Solid	7471A	
280-20223-9	J1KV94	T	Solid	7471A	
280-20223-10	J1KV95	T	Solid	7471A	
280-20223-11	J1KV96	T	Solid	7471A	
280-20223-12	J1KV97	T	Solid	7471A	
280-20223-13	J1KV98	T	Solid	7471A	
280-20223-13DU	Duplicate	T	Solid	7471A	
280-20223-13MS	Matrix Spike	T	Solid	7471A	
280-20223-14EB	J1KV99	T	Solid	7471A	
Prep Batch: 280-86257					
LCS 280-86257/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-86257/1-A	Method Blank	T	Solid	3050B	
280-20223-1	J1KV86	T	Solid	3050B	
280-20223-1DU	Duplicate	T	Solid	3050B	
280-20223-1MS	Matrix Spike	T	Solid	3050B	
280-20223-2	J1KV87	T	Solid	3050B	
280-20223-3	J1KV88	T	Solid	3050B	
280-20223-4	J1KV89	T	Solid	3050B	
280-20223-5	J1KV90	T	Solid	3050B	
280-20223-6	J1KV91	T	Solid	3050B	
280-20223-7	J1KV92	T	Solid	3050B	
280-20223-8	J1KV93	T	Solid	3050B	
280-20223-9	J1KV94	T	Solid	3050B	
280-20223-10	J1KV95	T	Solid	3050B	
280-20223-11	J1KV96	T	Solid	3050B	
280-20223-12	J1KV97	T	Solid	3050B	
280-20223-13	J1KV98	T	Solid	3050B	
280-20223-14EB	J1KV99	T	Solid	3050B	

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-86371					
LCS 280-85972/2-A	Lab Control Sample	T	Solid	7471A	280-85972
MB 280-85972/1-A	Method Blank	T	Solid	7471A	280-85972
280-20223-1	J1KV86	T	Solid	7471A	280-85972
280-20223-2	J1KV87	T	Solid	7471A	280-85972
280-20223-3	J1KV88	T	Solid	7471A	280-85972
280-20223-4	J1KV89	T	Solid	7471A	280-85972
280-20223-5	J1KV90	T	Solid	7471A	280-85972
280-20223-6	J1KV91	T	Solid	7471A	280-85972
280-20223-7	J1KV92	T	Solid	7471A	280-85972
280-20223-8	J1KV93	T	Solid	7471A	280-85972
280-20223-9	J1KV94	T	Solid	7471A	280-85972
280-20223-10	J1KV95	T	Solid	7471A	280-85972
280-20223-11	J1KV96	T	Solid	7471A	280-85972
280-20223-12	J1KV97	T	Solid	7471A	280-85972
280-20223-13	J1KV98	T	Solid	7471A	280-85972
280-20223-13DU	Duplicate	T	Solid	7471A	280-85972
280-20223-13MS	Matrix Spike	T	Solid	7471A	280-85972
280-20223-14EB	J1KV99	T	Solid	7471A	280-85972
Analysis Batch:280-88303					
LCS 280-86257/2-A	Lab Control Sample	T	Solid	6010B	280-86257
MB 280-86257/1-A	Method Blank	T	Solid	6010B	280-86257
280-20223-1	J1KV86	T	Solid	6010B	280-86257
280-20223-1DU	Duplicate	T	Solid	6010B	280-86257
280-20223-1MS	Matrix Spike	T	Solid	6010B	280-86257
280-20223-2	J1KV87	T	Solid	6010B	280-86257
280-20223-3	J1KV88	T	Solid	6010B	280-86257
280-20223-4	J1KV89	T	Solid	6010B	280-86257
280-20223-5	J1KV90	T	Solid	6010B	280-86257
280-20223-6	J1KV91	T	Solid	6010B	280-86257
280-20223-7	J1KV92	T	Solid	6010B	280-86257
280-20223-8	J1KV93	T	Solid	6010B	280-86257
280-20223-9	J1KV94	T	Solid	6010B	280-86257
280-20223-10	J1KV95	T	Solid	6010B	280-86257
280-20223-11	J1KV96	T	Solid	6010B	280-86257
280-20223-12	J1KV97	T	Solid	6010B	280-86257
280-20223-13	J1KV98	T	Solid	6010B	280-86257
280-20223-14EB	J1KV99	T	Solid	6010B	280-86257

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-88399					
280-20223-1	J1KV86	T	Solid	6010B	280-86257
280-20223-1DU	Duplicate	T	Solid	6010B	280-86257
280-20223-1MS	Matrix Spike	T	Solid	6010B	280-86257
280-20223-2	J1KV87	T	Solid	6010B	280-86257
280-20223-3	J1KV88	T	Solid	6010B	280-86257
280-20223-4	J1KV89	T	Solid	6010B	280-86257
280-20223-5	J1KV90	T	Solid	6010B	280-86257
280-20223-6	J1KV91	T	Solid	6010B	280-86257
280-20223-7	J1KV92	T	Solid	6010B	280-86257
280-20223-8	J1KV93	T	Solid	6010B	280-86257
280-20223-9	J1KV94	T	Solid	6010B	280-86257
280-20223-10	J1KV95	T	Solid	6010B	280-86257
280-20223-11	J1KV96	T	Solid	6010B	280-86257
280-20223-12	J1KV97	T	Solid	6010B	280-86257
280-20223-13	J1KV98	T	Solid	6010B	280-86257

Report Basis
T = Total

General Chemistry				
Analysis Batch:280-86770				
280-20223-1	J1KV86	T	Solid	D-2216
280-20223-1DU	Duplicate	T	Solid	D-2216
280-20223-2	J1KV87	T	Solid	D-2216
280-20223-3	J1KV88	T	Solid	D-2216
280-20223-4	J1KV89	T	Solid	D-2216
280-20223-5	J1KV90	T	Solid	D-2216
280-20223-6	J1KV91	T	Solid	D-2216
280-20223-7	J1KV92	T	Solid	D-2216
280-20223-8	J1KV93	T	Solid	D-2216
280-20223-9	J1KV94	T	Solid	D-2216
280-20223-10	J1KV95	T	Solid	D-2216
280-20223-11	J1KV96	T	Solid	D-2216
280-20223-12	J1KV97	T	Solid	D-2216
280-20223-13	J1KV98	T	Solid	D-2216
280-20223-14EB	J1KV99	T	Solid	D-2216

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 280-86850					
LCS 280-86850/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-86850/1-A	Method Blank	T	Solid	3550C	
280-20223-1	J1KV86	T	Solid	3550C	
280-20223-2	J1KV87	T	Solid	3550C	
280-20223-3	J1KV88	T	Solid	3550C	
280-20223-4	J1KV89	T	Solid	3550C	
280-20223-5	J1KV90	T	Solid	3550C	
280-20223-6	J1KV91	T	Solid	3550C	
280-20223-7	J1KV92	T	Solid	3550C	
280-20223-8	J1KV93	T	Solid	3550C	
280-20223-9	J1KV94	T	Solid	3550C	
280-20223-10	J1KV95	T	Solid	3550C	
280-20223-11	J1KV96	T	Solid	3550C	
280-20223-11MS	Matrix Spike	T	Solid	3550C	
280-20223-11MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-20223-12	J1KV97	T	Solid	3550C	
280-20223-13	J1KV98	T	Solid	3550C	
280-20223-14EB	J1KV99	T	Solid	3550C	
Analysis Batch:280-87761					
LCS 280-86850/2-A	Lab Control Sample	T	Solid	8310	280-86850
MB 280-86850/1-A	Method Blank	T	Solid	8310	280-86850
280-20223-1	J1KV86	T	Solid	8310	280-86850
280-20223-2	J1KV87	T	Solid	8310	280-86850
280-20223-3	J1KV88	T	Solid	8310	280-86850
280-20223-4	J1KV89	T	Solid	8310	280-86850
280-20223-5	J1KV90	T	Solid	8310	280-86850
280-20223-6	J1KV91	T	Solid	8310	280-86850
280-20223-7	J1KV92	T	Solid	8310	280-86850
280-20223-8	J1KV93	T	Solid	8310	280-86850
280-20223-9	J1KV94	T	Solid	8310	280-86850
280-20223-10	J1KV95	T	Solid	8310	280-86850
280-20223-11	J1KV96	T	Solid	8310	280-86850
280-20223-11MS	Matrix Spike	T	Solid	8310	280-86850
280-20223-11MSD	Matrix Spike Duplicate	T	Solid	8310	280-86850
280-20223-12	J1KV97	T	Solid	8310	280-86850
280-20223-13	J1KV98	T	Solid	8310	280-86850
280-20223-14EB	J1KV99	T	Solid	8310	280-86850

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Method Blank - Batch: 280-86878

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-86878/1-A	Analysis Batch:	280-87305	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-86878	Lab File ID:	050F5001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.0 g
Analysis Date:	09/21/2011 1220	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	09/20/2011 1126			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

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

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

Lab Control Sample - Batch: 280-86878

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-86878/2-A	Analysis Batch:	280-87305	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-86878	Lab File ID:	051F5101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.8 g
Analysis Date:	09/21/2011 1252	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	09/20/2011 1126			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	31.4	26.1	83	54 - 132	
Aroclor 1260	31.4	32.9	105	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	101	59 - 130
Tetrachloro-m-xylene	92	53 - 128

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-86878

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-20223-2	Analysis Batch:	280-87305	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-86878	Lab File ID:	054F5401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.7 g
Analysis Date:	09/21/2011 1428			Final Weight/Volume:	5000 uL
Prep Date:	09/20/2011 1126			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-20223-2	Analysis Batch:	280-87305	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-86878	Lab File ID:	055F5501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.2 g
Analysis Date:	09/21/2011 1500			Final Weight/Volume:	5000 uL
Prep Date:	09/20/2011 1126			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aroclor 1016	100	94	54 - 132	8	26		
Aroclor 1260	106	108	62 - 129	0	26		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	87	102	59 - 130
Tetrachloro-m-xylene	99	93	53 - 128

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Method Blank - Batch: 280-87173

Method: 8151A
Preparation: 8151A

Lab Sample ID:	MB 280-87173/1-A	Analysis Batch:	280-88035	Instrument ID:	GCS_M
Client Matrix:	Solid	Prep Batch:	280-87173	Lab File ID:	022B2101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.4 g
Analysis Date:	09/23/2011 2224	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	09/21/2011 1800			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
2,4,5-T	2.3	U	2.3	20
2,4-Dichlorophenoxyacetic acid	14	U	14	79
2,4-DB	6.93	J	2.8	79
Dalapon	1.4	U	1.4	40
Dicamba	1.4	U	1.4	40
Dichlorprop	3.2	U	3.2	79
Dinoseb	1.4	U	1.4	12
MCPA	2000	U	2000	7900
2,4,5-TP (Silvex)	1.4	U	1.4	20
MCPP	2000	U	2000	7900

Surrogate	% Rec	Acceptance Limits
DCAA	97	31 - 105

Lab Control Sample - Batch: 280-87173

Method: 8151A
Preparation: 8151A

Lab Sample ID:	LCS 280-87173/2-A	Analysis Batch:	280-88035	Instrument ID:	GCS_M
Client Matrix:	Solid	Prep Batch:	280-87173	Lab File ID:	005B0401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 g
Analysis Date:	09/23/2011 1618	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	09/21/2011 1800			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4,5-T	96.0	101	105	24 - 115	
2,4-Dichlorophenoxyacetic acid	92.0	104	113	32 - 115	
2,4-DB	100	81.5	82	37 - 119	
Dalapon	104	79.1	76	11 - 115	
Dicamba	92.0	85.5	93	11 - 115	
Dichlorprop	92.0	81.2	88	35 - 115	
Dinoseb	92.0	9.49	10	5 - 166	J
MCPA	9320	9500	102	37 - 115	
2,4,5-TP (Silvex)	92.0	94.9	103	53 - 134	
MCPP	9330	10400	112	48 - 132	

Surrogate	% Rec	Acceptance Limits
DCAA	90	31 - 105

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-87173

Method: 8151A
Preparation: 8151A

MS Lab Sample ID:	280-20223-1	Analysis Batch:	280-88035	Instrument ID:	GCS_M
Client Matrix:	Solid	Prep Batch:	280-87173	Lab File ID:	007B0601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.4 g
Analysis Date:	09/23/2011 1702			Final Weight/Volume:	10000 uL
Prep Date:	09/21/2011 1800			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-20223-1	Analysis Batch:	280-88035	Instrument ID:	GCS_M
Client Matrix:	Solid	Prep Batch:	280-87173	Lab File ID:	008B0701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	52.0 g
Analysis Date:	09/23/2011 1723			Final Weight/Volume:	10000 uL
Prep Date:	09/21/2011 1800			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2,4,5-T	48	87	24 - 115	56	40		*
2,4-Dichlorophenoxyacetic acid	48	88	32 - 115	55	40	J	*
2,4-DB	69	84	37 - 119	32	50	J	
Dalapon	36	57	11 - 115	42	50	J	
Dicamba	47	85	11 - 115	55	50		*
Dichlorprop	41	76	35 - 115	58	50	J	J *
Dinoseb	2	9	5 - 166	136	50	J N	J *
MCPA	48	86	37 - 115	54	50	J	*
2,4,5-TP (Silvex)	46	83	53 - 134	54	40	N	*
MCPP	51	93	48 - 132	55	50	J	*

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
DCAA	44	83	31 - 105

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Method Blank - Batch: 280-86604

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-86604/1-A	Analysis Batch:	280-88176	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-86604	Lab File ID:	052B0501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.9 g
Analysis Date:	09/26/2011 1137	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	09/17/2011 1132			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
C10-C36	970	U	970	3900
C10-C28	660	U	660	3900

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

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-86604

Method: NWTPH-Dx
Preparation: 3550C

LCS Lab Sample ID:	LCS 280-86604/2-A	Analysis Batch:	280-88176	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-86604	Lab File ID:	053B0601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.7 g
Analysis Date:	09/26/2011 1211	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	09/17/2011 1132			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-86604/3-A	Analysis Batch:	280-88176	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-86604	Lab File ID:	054B0701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.6 g
Analysis Date:	09/26/2011 1245	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	09/17/2011 1132			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
C10-C36	72	86	57 - 115	18	23		
C10-C28	72	86	53 - 115	18	23		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	87	92	49 - 115

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-86604

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-20223-1	Analysis Batch:	280-88176	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-86604	Lab File ID:	056B0901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.1 g
Analysis Date:	09/26/2011 1354			Final Weight/Volume:	1000 uL
Prep Date:	09/17/2011 1132			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-20223-1	Analysis Batch:	280-88176	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-86604	Lab File ID:	057B1001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.9 g
Analysis Date:	09/26/2011 1428			Final Weight/Volume:	1000 uL
Prep Date:	09/17/2011 1132			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	84	85	57 - 115	5	23		
C10-C28	84	85	56 - 115	5	23		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	90	92	49 - 115

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Method Blank - Batch: 280-86850

Method: 8310
Preparation: 3550C

Lab Sample ID:	MB 280-86850/1-A	Analysis Batch:	280-87761	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-86850	Lab File ID:	G0926017.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.6 g
Analysis Date:	09/26/2011 1616	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	09/19/2011 2025			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Acenaphthene	9.8	U	9.8	98
Acenaphthylene	8.8	U	8.8	98
Anthracene	3.0	U	3.0	20
Benzo[a]anthracene	3.1	U	3.1	15
Benzo[a]pyrene	6.3	U	6.3	15
Benzo[b]fluoranthene	4.1	U	4.1	15
Benzo[g,h,i]perylene	7.1	U	7.1	29
Benzo[k]fluoranthene	3.9	U	3.9	15
Chrysene	4.7	U	4.7	39
Dibenzo(a,h)anthracene	11	U	11	29
Fluoranthene	13	U	13	39
Fluorene	5.2	U	5.2	29
Indeno[1,2,3-cd]pyrene	12	U	12	29
Naphthalene	12	U	12	98
Phenanthrene	12	U	12	39
Pyrene	12	U	12	39

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Lab Control Sample - Batch: 280-86850

Method: 8310
Preparation: 3550C

Lab Sample ID:	LCS 280-86850/2-A	Analysis Batch:	280-87761	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-86850	Lab File ID:	G0926018.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.7 g
Analysis Date:	09/26/2011 1647	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	09/19/2011 2025			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1950	2010	103	78 - 116	
Acenaphthylene	1950	1790	92	76 - 115	
Anthracene	1950	1790	92	74 - 115	
Benzo[a]anthracene	1950	2110	108	85 - 120	
Benzo[a]pyrene	1950	1940	99	74 - 121	
Benzo[b]fluoranthene	1950	2110	108	85 - 115	
Benzo[g,h,i]perylene	1950	2170	111	85 - 120	
Benzo[k]fluoranthene	1950	2020	104	85 - 115	
Chrysene	1950	2020	104	83 - 115	
Dibenzo(a,h)anthracene	1950	2060	106	83 - 115	
Fluoranthene	1950	2010	103	83 - 115	
Fluorene	1950	1880	96	80 - 115	
Indeno[1,2,3-cd]pyrene	1950	2120	108	85 - 123	
Naphthalene	1950	1840	94	80 - 121	
Phenanthrene	1950	1920	98	80 - 115	
Pyrene	1950	1970	101	75 - 116	

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

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-86850

Method: 8310
Preparation: 3550C

MS Lab Sample ID:	280-20223-11	Analysis Batch:	280-87761	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-86850	Lab File ID:	G0926031.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.2 g
Analysis Date:	09/26/2011 2323			Final Weight/Volume:	4000 uL
Prep Date:	09/19/2011 2025			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-20223-11	Analysis Batch:	280-87761	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-86850	Lab File ID:	G0926032.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.1 g
Analysis Date:	09/26/2011 2354			Final Weight/Volume:	4000 uL
Prep Date:	09/19/2011 2025			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	103	103	78 - 116	3	20		
Acenaphthylene	94	94	76 - 115	2	21		
Anthracene	96	98	74 - 115	1	20		
Benzo[a]anthracene	105	109	85 - 120	0	20		
Benzo[a]pyrene	100	106	74 - 121	3	20		
Benzo[b]fluoranthene	104	110	85 - 115	3	20		
Benzo[g,h,i]perylene	108	114	85 - 120	2	20		
Benzo[k]fluoranthene	101	106	85 - 115	2	20		
Chrysene	100	104	83 - 115	1	20		
Dibenzo(a,h)anthracene	102	107	83 - 115	1	20		
Fluoranthene	102	104	83 - 115	1	20		
Fluorene	97	98	80 - 115	2	20		
Indeno[1,2,3-cd]pyrene	106	110	85 - 123	1	20		
Naphthalene	94	94	80 - 121	2	20		
Phenanthrene	99	100	80 - 115	1	20		
Pyrene	100	103	75 - 116	1	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Terphenyl-d14 (SUR)	91	92	72 - 115

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Method Blank - Batch: 280-86257

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-86257/1-A	Analysis Batch:	280-88303	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-86257	Lab File ID:	26a092811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	09/28/2011 1212	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				
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	0.142	B	0.076	0.50
Beryllium	0.033	U	0.033	0.20
Boron	0.98	U	0.98	2.0
Cadmium	0.041	U	0.041	0.20
Calcium	14.1	U	14.1	50.0
Chromium	0.058	U	0.058	0.20
Cobalt	0.10	U	0.10	1.0
Copper	0.22	U	0.22	1.0
Iron	3.8	U	3.8	5.0
Lead	0.27	U	0.27	0.50
Magnesium	3.7	U	3.7	20.0
Manganese	0.10	U	0.10	1.0
Molybdenum	0.26	U	0.26	2.0
Nickel	0.12	U	0.12	4.0
Potassium	41.0	U	41.0	300
Selenium	0.86	U	0.86	1.0
Silicon	5.7	U	5.7	10.0
Silver	0.16	U	0.16	0.20
Sodium	59.0	U	59.0	120
Vanadium	0.094	U	0.094	2.0
Zinc	0.40	U	0.40	1.0

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Lab Control Sample - Batch: 280-86257

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-86257/2-A	Analysis Batch:	280-88303	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-86257	Lab File ID:	26a092811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	09/28/2011 1215	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	189.7	95	82 - 116	
Antimony	50.0	46.67	93	82 - 110	
Arsenic	100	95.32	95	85 - 110	
Barium	200	192.4	96	87 - 112	
Beryllium	5.00	4.75	95	84 - 114	
Boron	100	94.71	95	81 - 110	
Cadmium	10.0	8.87	89	87 - 110	
Calcium	5000	4604	92	82 - 114	
Chromium	20.0	19.37	97	84 - 114	
Cobalt	50.0	47.83	96	87 - 110	
Copper	25.0	24.23	97	88 - 110	
Iron	100	99.31	99	87 - 120	
Lead	50.0	50.16	100	86 - 110	
Magnesium	5000	4782	96	90 - 110	
Manganese	50.0	48.63	97	88 - 110	
Molybdenum	100	95.46	95	86 - 110	
Nickel	50.0	48.75	97	87 - 110	
Potassium	5000	4836	97	89 - 110	
Selenium	200	200.0	100	83 - 110	
Silicon	1000	257.4	26	10 - 70	
Silver	5.00	4.71	94	87 - 114	
Sodium	5000	5126	103	90 - 112	
Vanadium	50.0	49.15	98	88 - 110	
Zinc	50.0	48.15	96	76 - 114	

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Matrix Spike - Batch: 280-86257

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-20223-1	Analysis Batch:	280-88303	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-86257	Lab File ID:	26a092811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	09/28/2011 1225	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	6450		190	8242	945	50 - 200	4
Antimony	0.54	B	47.5	26.86	55	20 - 200	
Arsenic	2.4		95.0	84.84	87	76 - 111	
Barium	62.0		190	236.3	92	52 - 159	
Boron	1.4	B	95.0	81.08	84	75 - 107	
Cadmium	0.050	B	9.50	7.85	82	40 - 130	
Calcium	8170		4750	12340	88	43 - 165	
Chromium	8.9		19.0	26.21	91	70 - 200	
Cobalt	6.9		47.5	49.00	89	72 - 106	
Iron	18400		95.0	20200	1873	70 - 200	4
Magnesium	5030		4750	9000	84	64 - 145	
Manganese	294		47.5	343.5	105	40 - 200	4
Molybdenum	0.52	B	95.0	81.12	85	75 - 103	
Nickel	10.6		47.5	53.04	89	61 - 126	
Potassium	1060		4750	5546	94	56 - 172	
Selenium	1.1		190	171.8	90	76 - 104	
Silicon	458		950	414.6	-5	20 - 200	N
Silver	0.15	U	4.75	4.08	86	75 - 141	
Sodium	259		4750	5130	103	78 - 111	
Zinc	37.1		47.5	81.59	94	70 - 200	

Matrix Spike - Batch: 280-86257

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-20223-1	Analysis Batch:	280-88399	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-86257	Lab File ID:	26c092811.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	09/29/2011 0157	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Beryllium	0.43	B	4.75	4.32	82	72 - 105	
Copper	17.0		23.7	41.94	105	37 - 187	
Lead	2.2	B	47.5	50.73	102	70 - 200	
Vanadium	51.5		47.5	108.2	119	50 - 169	

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Duplicate - Batch: 280-86257

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-20223-1	Analysis Batch:	280-88303	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-86257	Lab File ID:	26a092811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.11 g
Analysis Date:	09/28/2011 1223	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	6450		6873	6	40	
Antimony	0.54	B	0.34	NC	40	U
Arsenic	2.4		2.11	14	30	
Barium	62.0		59.18	5	30	
Boron	1.4	B	1.26	8	30	B
Cadmium	0.050	B	0.0635	24	30	B
Calcium	8170		7607	7	30	
Chromium	8.9		8.95	0.9	40	
Cobalt	6.9		7.10	3	30	
Iron	18400		18900	3	40	
Magnesium	5030		4493	11	30	
Manganese	294		297.7	1	40	
Molybdenum	0.52	B	0.24	NC	30	U
Nickel	10.6		10.27	3	30	
Potassium	1060		1115	5	40	
Selenium	1.1		0.78	NC	30	U
Silicon	458		316.4	37	40	
Silver	0.15	U	0.15	NC	30	U
Sodium	259		268.7	4	30	
Zinc	37.1		38.36	3	40	

Duplicate - Batch: 280-86257

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-20223-1	Analysis Batch:	280-88399	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-86257	Lab File ID:	26c092811.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.11 g
Analysis Date:	09/29/2011 0154	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	09/28/2011 0545				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Beryllium	0.43	B	0.494	13	30	B
Copper	17.0		17.25	1	30	
Lead	2.2	B	1.91	16	40	B
Vanadium	51.5		50.63	2	30	

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Method Blank - Batch: 280-85972

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-85972/1-A	Analysis Batch:	280-86371	Instrument ID:	MT_034
Client Matrix:	Solid	Prep Batch:	280-85972	Lab File ID:	34A091511.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.6 g
Analysis Date:	09/15/2011 1709	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	09/15/2011 0925				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-85972

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-85972/2-A	Analysis Batch:	280-86371	Instrument ID:	MT_034
Client Matrix:	Solid	Prep Batch:	280-85972	Lab File ID:	34A091511.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.6 g
Analysis Date:	09/15/2011 1711	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	09/15/2011 0925				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.422	101	87 - 111	

Matrix Spike - Batch: 280-85972

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-20223-13	Analysis Batch:	280-86371	Instrument ID:	MT_034
Client Matrix:	Solid	Prep Batch:	280-85972	Lab File ID:	34A091511.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.62 g
Analysis Date:	09/15/2011 1755	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	09/15/2011 0925				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.0054	U	0.406	0.435	107	87 - 111	

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Duplicate - Batch: 280-85972

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-20223-13	Analysis Batch:	280-86371	Instrument ID:	MT_034
Client Matrix:	Solid	Prep Batch:	280-85972	Lab File ID:	34A091511.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.67 g
Analysis Date:	09/15/2011 1758	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	09/15/2011 0925				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.0054	U	0.00503	NC	20	B

Client: Washington Closure Hanford

Job Number: 280-20223-1
Sdg Number: J01273

Duplicate - Batch: 280-86770

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-20223-1	Analysis Batch:	280-86770	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:	09/19/2011 1108	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	0.67	0.74	10	20	

5-6, 2.3, 2.7, 4.1, 2.7 NF 9/14/11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-259	Page 1 of ~~5~~ 3 on 9/8/11

Collector: K. Lucas	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 118-D-2:1 Burial Ground- Overburden		SAF No.: RC-075
Ice Chest No.: ERC-02-803	Field Logbook No.: EL-1607-12	COA: R118D22000	Method of Shipment: Fed Ex
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver on 9/8/11	Offsite Property No.: A100876/877		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad < DOT

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	G	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	60mL	120mL	125mL	120mL	125mL	1000mL	1000mL	1000mL	1000mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D+	PAHs - 8310	PCBs - 8082	Chloro-Herbicides - EPA8151	See item (2) in Special Instructions.	Carbon-14; Tritium - H3	Nickel-63; Strontium-90 -- Total Sr	Isotopic Plutonium

Sample No.	Matrix *	Sample Date	Sample Time											RCF
J1KV86	SOIL	9/8/11	0815	X		X	X	X	X					27384
J1KV87	SOIL	9/8/11	0820	X		X	X	X	X					
J1KV88	SOIL	9/8/11	0835	X		X	X	X	X					
J1KV89	SOIL	9/8/11	0840	X		X	X	X	X					
J1KV90	SOIL	9/8/11	0850	X		X	X	X	X					

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K. Lucas Kenan Lucas	9-8-11 1570	D. Newman Dem Newm	9/8/11 1510
D. Newman Dem Newm	9/8/11 1659	C. Bingham CHB	9/8/11 1650
C. Bingham CHB WDH	9.12.11 1130	Fed EX	
		NAPhillips	9/14/11 0900

SPECIAL INSTRUCTIONS

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

(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

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

REVIEWED BY AJ DATE 9-17-11

SDG 50273

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

WCH-EE-011

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Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-259	Page 2 of ~~3~~

Collector: K Lucas	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 118-D-2:1 Burial Ground- Overburden		SAF No.: RC-075
Ice Chest No.: ERC-02-803	Field Logbook No.: EL-1607-12	COA: R118D22000	Method of Shipment: Fed Ex
Shipped To: TestAmerica Incorporated, ~~Richland~~ Dover	Offsite Property No.: A100 876/ 877		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad < DOT

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	G	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	60mL	120mL	125mL	120mL	125mL	1000mL	1000mL	1000mL	1000mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hexavalent 7196	TPH-Diesel Range - WTPH-D+	PAHs - 8310	PCBs - 8082	Chloro-Herbicides - EPA8151	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										RCF
J1KV91 / SOIL / 9/8/11 / 0855	X		X	X	X	X				27384
J1KV92 / SOIL / 9/8/11 / 1330	X		X	X	X	X				
J1KV93 / SOIL / 9/8/11 / 1340	X		X	X	X	X				
J1KV94 / SOIL / 9/8/11 / 1350	X		X	X	X	X				
J1KV95 / SOIL / 9/8/11 / 1405	X		X	X	X	X				

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
R. Lucas Kenneth Lucas	9-8-11 1510	D. Newman Dennis Newman	9/8/11 1510
D. Newman Dennis Newman	9/8/11 1650	Cindra Burgham	1060442 9/8/11 1650
Cindra Burgham WCH	1060442 9.12.11 1130	Fed EX	
		DOPMips	9/14/11 0900

SPECIAL INSTRUCTIONS

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

(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

REVIEWED BY AJ DATE 9-12-11

SDG J01273

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

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

WCH-EE-011

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Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-259	Page 3 of 3

Collector: K. Lucus	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 118-D-2:1 Burial Ground- Overburden		SAF No.: RC-075
Ice Chest No.: ERC-02-803	Field Logbook No.: EL-1607-12	COA: R118D22000	Method of Shipment: Fed Ex
Shipped To: TestAmerica Incorporated, ~~Richland~~ DNR	Offsite Property No.: A100876/877		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad <.DOT

Special Handling and/or Storage

Cool 4 Deg. C

SAMPLE ANALYSIS													
			Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None	None
			Type of Container	G/P	G/P	G	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	60mL	120mL	125mL	120mL	125mL	1000mL	1000mL	1000mL	1000mL
				See item (1) in Special Instructions.	Chromium Hex - 196	TPH-Diesel Range - WTPH-D +	PAHs - 8310	PCBs - 8082	Chloro-Herbicides - EPA8151	See item (2) in Special Instructions.	Carbon-14; Tritium - H3	Nickel-63; Strontium-90 -- Total Sr	Isotopic Plutonium
Sample No.	Matrix *	Sample Date	Sample Time										
J1KV96	SOIL	9/8/11	1420	X		X	X	X	X				RCI2 27384
J1KV97	SOIL	9/8/11	1430	X		X	X	X	X				
J1KV98	SOIL	9/8/11	0815	X		X	X	X	X				
J1KV99	SOIL	9/8/11	0920	X			X						

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EB

CHAIN OF POSSESSION	Date/Time	Sign/Print Names	Date/Time
Relinquished By/Removed From: K Lucus Kevin Lucus	9-8-11 1510	Received By/Stored In: D. Newman Dem Newm	9/8/11 1510
Relinquished By/Removed From: D. Newman Dem Newm	9/8/11 1650	Received By/Stored In: Chris Bingham	060412 9/8/11 1650
Relinquished By/Removed From: Chris Bingham WCH	060412 9.8.11 1130	Received By/Stored In: Fed EX	
Relinquished By/Removed From:		Received By/Stored In:	9/11/11 0900
Relinquished By/Removed From:		Received By/Stored In:	
Relinquished By/Removed From:		Received By/Stored In:	

SPECIAL INSTRUCTIONS

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

(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

REVIEWED BY AJ DATE 9-8-11

SDG ~~J01237~~ J01273

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

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

WCH-EE-011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 - 601OTC

Analytical Due:

Report Due: ~~10/4/11~~ pm 9/14/11
10/5/11

Sample Check-in List

Date/Time Received: 9/14/11 0900 GM Screen Result 12 microR/hr

Client: Washington Closure Hanford SDG #: J01273 NA[ ] SAF #: RC-075 NA [ ]

Job Number: 20273 Chain of Custody # RC-075-259

Shipping Container ID: ERC-96-028, ERC-02-103 ~~ERC-96-014, APS-04-002, ERC-02-103~~ Air Bill # 7975 0704 5429, 5292, 5576, 5635, 5326

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: 2.3, 2.9, 4.1, 2.7, 5.6 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: 9/14/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ____ by ____ Person Contacted ____

[ ] No action necessary; process as is.

Project Manager [signature] Date 9/14/11

ERC-02-803 5.60

From: (509) 376-7768
1162 SHIPPING DEPT
US DOE
2355 STEVENS DR

RICHLAND, WA 99354

Origin ID: PSCA

FedEx. Express

J112011042902 25

Ship Date: 12SEP11
ActWgt: 55.0 LB
CAD: 5851986/INET3180

Delivery Address Bar Code

Ref # R11802 2000
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100
BILL THIRD PARTY

KAE YODER
TEST AMERICA
4955 YARROW ST # A100870

ARVADA, CO 80002

1 of 5

TUE - 13 SEP A1
PRIORITY OVERNIGHT

TRK# 0201 7975 0704 5326

MASTER

XH WHHA

80002
CO-US
DEN

50F02/4299/F5F4

After printing this label:
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AFS-06-002 4.1°

From: (509) 376-7768
1162 SHIPPING DEPT
US DOE
2355 STEVENS DR

RICHLAND, WA 99354

Origin ID: PSCA

FedEx. Express

J11201104290225

Ship Date: 12SEP11
ActWgt: 62.0 LB
CAD: 5851986/INET3180

Delivery Address Bar Code

Ref # R11802 2000
Invoice #
PO #
Dept #

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4955 YARROW ST # A100870

ARVADA, CO 80002

2 of 5

TUE - 13 SEP A1
PRIORITY OVERNIGHT

MPS# 7975 0704 5429
0263
Mstr# 7975 0704 5326 0201

XH WHHA

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CO-US
DEN

50FG2/4299/F5F4

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ERC-02-103 2-3°

From: (509) 376-7768
1162 SHIPPING DEPT
US DOE
2355 STEVENS DR

RICHLAND, WA 99354

Origin ID: PSCA

FedEx. Express

J112011042902 25

Ship Date: 12SEP11
ActWgt: 67.0 LB
CAD: 5851988/INET3180

Delivery Address Bar Code

Ref # R11802 2000
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100

BILL THIRD PARTY

KAE YODER
TEST AMERICA
4955 YARROW ST # A100870

ARVADA, CO 80002

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TUE - 13 SEP A1
PRIORITY OVERNIGHT

MPS# 7975 0704 5635
0263
Mstr# 7975 0704 5326 0201

XH WHHA

80002
CO-U8
DEN

50F02/4299/F5F4

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ERL-96-028 2.9

From: (509) 376-7768
1162 SHIPPING DEPT
US DOE
2355 STEVENS DR

RICHLAND, WA 99354

Origin ID: PSCA

FedEx. Express

J1120110429022 5

Ship Date: 12SEP11
ActWgt: 60.0 LB
CAD: 5851986/INET3180

Delivery Address Bar Code

Ref # R11802 2000
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100

BILL THIRD PARTY

KAE YODER
TEST AMERICA
4955 YARROW ST # A100870

ARVADA, CO 80002

3 of 5

TUE - 13 SEP A1
PRIORITY OVERNIGHT

MPS# 7975 0704 5392
0263
Mstr# 7975 0704 5326
0201

XH WHHA

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ERC-96-014 2.7°

From: (509) 376-7768
1162 SHIPPING DEPT
US DOE
2355 STEVENS DR

RICHLAND, WA 99354

Origin ID: PSCA

FedEx. Express

J1201104290225

Ship Date: 12SEP11
ActWgt: 70.0 LB
CAD: 5851986/INET3180

Delivery Address Bar Code

Ref # R11802 2000
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100
BILL THIRD PARTY

KAE YODER
TEST AMERICA
4955 YARROW ST # A100870

ARVADA, CO 80002

4 of 5

TUE - 13 SEP A1
PRIORITY OVERNIGHT

MPS# 7975 0704 5576
0263
Mstr# 7975 0704 5326 0201

XH WHHA

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CO-US
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