SAF-RC-074
100-D/DR Burial Grounds & Remaining Sites – Soil In-Process
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 1/30/13
INITIAL/DATE

COMMENTS:

SDG J01675 SAF RC-074

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Waste Site: 100-D-100

Analytical Data Package Prepared For

Washington Closure Hanford

Radiochemical Analysis By

TestAmerica

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

Assigned Laboratory Code: TARL

Data Package Contains 58 *Pages*

Report No.: 54360

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.
J01675	RC-074	J1R980	J3A230411-1	MXXWJ1AC	9MXXWJ10	3023040
		J1R981	J3A230411-2	MXXWK1AC	9MXXWK10	3023040
		J1R982	J3A230411-3	MXXWL1AC	9MXXWL10	3023040
		J1R983	J3A230411-4	MXXWM1AC	9MXXWM10	3023040
		J1R984	J3A230411-5	MXXWN1AC	9MXXWN10	3023040
		J1RC10	J3A210442-1	MXXD71AC	9MXXD710	3021064
		J1RC11	J3A210442-2	MXXD81AC	9MXXD810	3021064
		J1RC12	J3A210442-3	MXXD91AC	9MXXD910	3021064
		J1RC13	J3A210442-4	MXXEA1AC	9MXXEA10	3021064
		J1RC14	J3A210442-5	MXXEC1AC	9MXXEC10	3021064
		J1RC15	J3A210442-6	MXXED1AC	9MXXED10	3021064
		J1RC16	J3A210442-7	MXXEE1AC	9MXXEE10	3021064
		J1RC17	J3A210442-8	MXXEF1AC	9MXXEF10	3021064
		J1RC18	J3A210442-9	MXXEG1AC	9MXXEG10	3021064
		J1RC19	J3A210442-10	MXXEH1AC	9MXXEH10	3021064
	RC-074	J1RC20	J3A210442-11	MXXEJ1AC	9MXXEJ10	3021064
		J1RC21	J3A210442-12	MXXEK1AC	9MXXEK10	3021064
		J1RC22	J3A210442-13	MXXEL1AC	9MXXEL10	3021064
		J1RC23	J3A210442-14	MXXEM1AC	9MXXEM10	3021064
		J1RC24	J3A210442-15	MXXEN1AC	9MXXEN10	3021064

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Washington Closure Hanford
2620 Fermi Avenue
Richland, WA 99354

TestAmerica Laboratories, Inc.

January 28, 2013

Attention: Joan Kessner

SAF Number	:	RC-074
Date SDG Closed	:	January 23, 2013
Number of Samples	:	Twenty (20)
Sample Type	:	Soil
SDG Number	:	J01675
Data Deliverable	:	Quick Turn Metals / Summary

CASE NARRATIVE

I. Introduction

Between January 21, 2013 and January 23, 2013, twenty soil samples were received at TestAmerica for analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Washington Closure Hanford (WCH) specific ID;

WCH ID#	TARL ID#	MATRIX	DATE OF RECEIPT
J1RC10	MXXD7	SOIL	1/21/13
J1RC11	MXXD8	SOIL	1/21/13
J1RC12	MXXD9	SOIL	1/21/13
J1RC13	MXXEA	SOIL	1/21/13
J1RC14	MXXEC	SOIL	1/21/13
J1RC15	MXXED	SOIL	1/21/13
J1RC16	MXXEE	SOIL	1/21/13
J1RC17	MXXEF	SOIL	1/21/13
J1RC18	MXXEG	SOIL	1/21/13
J1RC19	MXXEH	SOIL	1/21/13
J1RC20	MXXEJ	SOIL	1/21/13
J1RC21	MXXEK	SOIL	1/21/13
J1RC22	MXXEL	SOIL	1/21/13
J1RC23	MXXEM	SOIL	1/21/13
J1RC24	MXXEN	SOIL	1/21/13
J1R980	MXXWJ	SOIL	1/23/13
J1R981	MXXWK	SOIL	1/23/13
J1R982	MXXWL	SOIL	1/23/13
J1R983	MXXWM	SOIL	1/23/13
J1R984	MXXWN	SOIL	1/23/13

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:

ICP Metals
ICP Metals by method SW-846 6010A
Chemical Analysis
Hexavalent Chromium by EPA method 7196A

IV. Quality Control

SDG J01675 includes a minimum of one Laboratory Control Samples (LCS), one method (reagent) blank, a duplicate sample, matrix spike sample and a matrix spike duplicate sample. Any exceptions have been noted in the "Comments" section.

Blanks and LCS are reported in mg/L units, other QC and sample results are reported in the same units.

V. Comments

ICP Metals
ICP Metals by method SW-846 6010A
Two batches were analyzed for the samples with the standard metal request list.

Batch 3021065:
The LCS, batch blank, samples, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

Batch 3023038:
The LCS, batch blank, samples, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

Chemical Analysis
Hexavalent Chromium by EPA method 7196A
Two batches were analyzed.

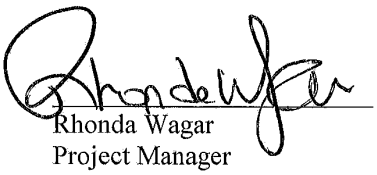
Batch 3021064:
The LCS, batch blank, samples, sample duplicate (J1RC10) and sample matrix spike (J1RC10) results are within contractual requirements.

Batch 3023040:
The LCS, batch blank, samples, sample duplicate (J1R980) and sample matrix spike (J1R980) results are within contractual requirements.

Washington Closure Hanford
January 28, 2013

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

Reviewed and approved:



Rhonda Wagar
Project Manager

Drinking Water Method Cross References

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

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

Uncertainty Estimation

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

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

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

Report Definitions

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

Sample Results Summary

Date: 26-Jan-13

TestAmerica TARL

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

Report No. : 54360 **SDG No:** J01675

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
3021064 7196_CR6									
	J1RC10								
	MXXD71AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	MXXD71AM	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	3.50E-01	0.0
	J1RC11								
	MXXD81AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1RC12								
	MXXD91AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1RC13								
	MXXEA1AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1RC14								
	MXXEC1AC	HEXCHROME	1.64E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1RC15								
	MXXED1AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1RC16								
	MXXEE1AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1RC17								
	MXXEF1AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1RC18								
	MXXEG1AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1RC19								
	MXXEH1AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1RC20								
	MXXEJ1AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1RC21								
	MXXEK1AC	HEXCHROME	3.46E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1RC22								
	MXXEL1AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1RC23								
	MXXEM1AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1RC24								
	MXXEN1AC	HEXCHROME	3.86E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
3023040 7196_CR6									
	J1R980								
	MXXWJ1AC	HEXCHROME	4.31E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	MXXWJ1CF	HEXCHROME	4.31E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	3.50E-01	0.0
	J1R981								
	MXXWK1AC	HEXCHROME	3.50E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1R982								

TestAmerica

rptSTLRchSaSummary2 V5.2.23 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: 26-Jan-13

TestAmerica TARL

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

Report No. : 54360 **SDG No:** J01675

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
3023040	7196_CR6								
	J1R982								
	MXXWL1AC	HEXCHROME	3.33E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1R983								
	MXXWM1A	HEXCHROME	3.80E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1R984								
	MXXWN1A	HEXCHROME	3.92E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	

No. of Results: 22

TestAmerica **RPD** - Relative Percent Difference.

rptSTLRchSaSum mary2 V5.2.23 A2002

QC Results Summary

Date: 26-Jan-13

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 54360 **SDG No.:** J01675

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDL
7196_CR6								
3021064 MATRIX SPIKE, J1RC10								
MXXD71AL	HEXCHROME	2.67E+01 +- 0.0E+00		mg/kg	N/A	89%	-0.1	1.55E-01
3021064 LCS,								
MXXEP1AC	HEXCHROME	1.83E+01 +- 0.0E+00		mg/kg	N/A	96%	0.0	1.55E-01
3021064 BLANK QC,								
MXXEP1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01
7196_CR6								
3023040 MATRIX SPIKE, J1R980								
MXXWJ1CE	HEXCHROME	2.66E+01 +- 0.0E+00		mg/kg	N/A	88%	-0.1	1.55E-01
3023040 LCS,								
MXXXH1AC	HEXCHROME	1.84E+01 +- 0.0E+00		mg/kg	N/A	97%	0.0	1.55E-01
3023040 BLANK QC,								
MXXXH1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01

No. of Results: 6

TestAmerica

rptSTLRchQcSummary V5.2.23 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: 26-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A230411-1
Client Sample ID: J1R980

SDG: J01675
Report No. : 54360
COC No. : RC-074-436

Collection Date: 1/22/2013 2:27:00 PM
Received Date: 1/23/2013 8:45:00 AM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3023040	7196_CR6			**Work Order:** MXXWJ1AC			**Report DB ID:** 9MXXWJ10					
HEXCHROME	**4.31E-01**			0.0E+00	1.55E-01	mg/kg	N/A	*(2.8)*	1/23/13 11:30 a		2.5012	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.23 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: 26-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A230411-2
Client Sample ID: J1R981

SDG: J01675
Report No. : 54360
COC No. : RC-074-436

Collection Date: 1/22/2013 2:30:00 PM
Received Date: 1/23/2013 8:45:00 AM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3023040	7196_CR6			**Work Order:**	MXXWK1AC		**Report DB ID:**	9MXXWK10				
HEXCHROME	**3.50E-01**			0.0E+00	1.55E-01	mg/kg	N/A	*(2.3)*	1/23/13 11:30 a		2.5023	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.23 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: 26-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A230411-3
Client Sample ID: J1R982

SDG: J01675
Report No. : 54360
COC No. : RC-074-436

Collection Date: 1/22/2013 2:33:00 PM
Received Date: 1/23/2013 8:45:00 AM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3023040	7196_CR6			**Work Order:** MXXWL1AC			**Report DB ID:** 9MXXWL10					
HEXCHROME	**3.33E-01**			0.0E+00	1.55E-01	mg/kg	N/A	*(2.1)*	1/23/13 11:30 a		2.5032	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.23 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: 26-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A230411-4
Client Sample ID: J1R983

SDG: J01675
Report No. : 54360
COC No. : RC-074-436

Collection Date: 1/22/2013 2:36:00 PM
Received Date: 1/23/2013 8:45:00 AM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3023040	7196_CR6			**Work Order:**	MXXWM1AC		**Report DB ID:**	9MXXWM10				
HEXCHROME	**3.80E-01**			0.0E+00	1.55E-01	mg/kg	N/A	*(2.5)*	1/23/13 11:30 a		2.5037	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.23 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: 26-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A230411-5
Client Sample ID: J1R984

SDG: J01675
Report No. : 54360
COC No. : RC-074-436

Collection Date: 1/22/2013 2:41:00 PM
Received Date: 1/23/2013 8:45:00 AM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3023040	7196_CR6			**Work Order:** MXXWN1AC			**Report DB ID:** 9MXXWN10					
HEXCHROME	**3.92E-01**			0.0E+00	1.55E-01	mg/kg	N/A	*(2.5)*	1/23/13 11:30 a		2.5052	
							1.55E-01	*N/A*			g	

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

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

FORM I

SAMPLE RESULTS

Date: 26-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A210442-1
Client Sample ID: J1RC10

SDG: J01675
Report No. : 54360
COC No. : RC-074-459

Collection Date: 1/21/2013 1:48:00 PM
Received Date: 1/21/2013 4:20:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3021064	7196_CR6			**Work Order:** MXXD71AC			**Report DB ID:** 9MXXD710					
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	1/22/13 08:30 a		2.5057	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.23 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: 26-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A210442-2
Client Sample ID: J1RC11

SDG: J01675
Report No. : 54360
COC No. : RC-074-459

Collection Date: 1/21/2013 1:51:00 PM
Received Date: 1/21/2013 4:20:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3021064	7196_CR6			**Work Order:** MXXD81AC			**Report DB ID:** 9MXXD810					
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	1/22/13 08:30 a		2.5171	
							1.55E-01	*N/A*			g	

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

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

FORM I

SAMPLE RESULTS

Date: 26-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A210442-3
Client Sample ID: J1RC12

SDG: J01675
Report No. : 54360
COC No. : RC-074-459

Collection Date: 1/21/2013 1:54:00 PM
Received Date: 1/21/2013 4:20:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3021064	7196_CR6			**Work Order:** MXXD91AC			**Report DB ID:** 9MXXD910					
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	1/22/13 08:30 a		2.5049	
							1.55E-01	*N/A*			g	

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

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

FORM I

SAMPLE RESULTS

Date: 26-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A210442-4
Client Sample ID: J1RC13

SDG: J01675
Report No. : 54360
COC No. : RC-074-459

Collection Date: 1/21/2013 2:05:00 PM
Received Date: 1/21/2013 4:20:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3021064	7196_CR6			**Work Order:** MXXEA1AC			**Report DB ID:** 9MXXEA10					
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	1/22/13 08:30 a		2.5066	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.23 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: 26-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A210442-5
Client Sample ID: J1RC14

SDG: J01675
Report No. : 54360
COC No. : RC-074-459

Collection Date: 1/21/2013 2:12:00 PM
Received Date: 1/21/2013 4:20:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3021064	7196_CR6			**Work Order:** MXXEC1AC			**Report DB ID:** 9MXXEC10					
HEXCHROME	**1.64E-01**			0.0E+00	1.55E-01	mg/kg	N/A	*(1.1)*	1/22/13 08:30 a		2.5082	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.23 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: 26-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A210442-6
Client Sample ID: J1RC15

SDG: J01675
Report No. : 54360
COC No. : RC-074-459

Collection Date: 1/21/2013 2:16:00 PM
Received Date: 1/21/2013 4:20:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3021064	7196_CR6			**Work Order:** MXXED1AC			**Report DB ID:** 9MXXED10					
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	1/22/13 08:30 a		2.5144	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.23 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: 26-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A210442-7
Client Sample ID: J1RC16

SDG: J01675
Report No. : 54360
COC No. : RC-074-459

Collection Date: 1/21/2013 2:19:00 PM
Received Date: 1/21/2013 4:20:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3021064	7196_CR6			**Work Order:**	MXXEE1AC		**Report DB ID:**	9MXXEE10				
HEXCHROME	**1.55E-01**	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	1/22/13 08:30 a		2.4994	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.23 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: 26-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A210442-8
Client Sample ID: J1RC17

SDG: J01675
Report No. : 54360
COC No. : RC-074-459

Collection Date: 1/21/2013 2:22:00 PM
Received Date: 1/21/2013 4:20:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3021064	7196_CR6			**Work Order:** MXXEF1AC			**Report DB ID:** 9MXXEF10					
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	1/22/13 08:30 a		2.5109	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.23 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: 26-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A210442-9
Client Sample ID: J1RC18

SDG: J01675
Report No. : 54360
COC No. : RC-074-459

Collection Date: 1/21/2013 2:28:00 PM
Received Date: 1/21/2013 4:20:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3021064	7196_CR6			**Work Order:** MXXEG1AC			**Report DB ID:** 9MXXEG10					
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	1/22/13 08:30 a		2.508	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.23 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: 26-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A210442-10
Client Sample ID: J1RC19

SDG: J01675
Report No. : 54360
COC No. : RC-074-459

Collection Date: 1/21/2013 2:25:00 PM
Received Date: 1/21/2013 4:20:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3021064	7196_CR6			**Work Order:** MXXEH1AC			**Report DB ID:** 9MXXEH10					
HEXCHROME	**1.55E-01**	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	1/22/13 08:30 a		2.509	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.23 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: 26-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A210442-11
Client Sample ID: J1RC20

SDG: J01675
Report No. : 54360
COC No. : RC-074-459

Collection Date: 1/21/2013 2:32:00 PM
Received Date: 1/21/2013 4:20:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3021064	7196_CR6			**Work Order:** MXXEJ1AC			**Report DB ID:** 9MXXEJ10					
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	1/22/13 08:30 a		2.5213	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.23 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: 26-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A210442-12
Client Sample ID: J1RC21

SDG: J01675
Report No. : 54360
COC No. : RC-074-459

Collection Date: 1/21/2013 2:27:00 PM
Received Date: 1/21/2013 4:20:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3021064	7196_CR6			**Work Order:**	MXXEK1AC		**Report DB ID:**	9MXXEK10				
HEXCHROME	**3.46E-01**			0.0E+00	1.55E-01	mg/kg	N/A	*(2.2)*	1/22/13 08:30 a		2.5287	
							1.55E-01	*N/A*			g	

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

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

FORM I

SAMPLE RESULTS

Date: 26-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A210442-13
Client Sample ID: J1RC22

SDG: J01675
Report No. : 54360
COC No. : RC-074-459

Collection Date: 1/21/2013 2:30:00 PM
Received Date: 1/21/2013 4:20:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3021064	7196_CR6			**Work Order:** MXXEL1AC			**Report DB ID:** 9MXXEL10					
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	1/22/13 08:30 a		2.5224	
							1.55E-01	*N/A*			g	

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

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

FORM I

SAMPLE RESULTS

Date: 26-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A210442-14
Client Sample ID: J1RC23

SDG: J01675
Report No. : 54360
COC No. : RC-074-459

Collection Date: 1/21/2013 2:36:00 PM
Received Date: 1/21/2013 4:20:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3021064	7196_CR6			**Work Order:** MXXEM1AC			**Report DB ID:** 9MXXEM10					
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	1/22/13 08:30 a		2.5023	
							1.55E-01	*N/A*			g	

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

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

FORM I

SAMPLE RESULTS

Date: 26-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A210442-15
Client Sample ID: J1RC24

SDG: J01675
Report No. : 54360
COC No. : RC-074-459

Collection Date: 1/21/2013 2:39:00 PM
Received Date: 1/21/2013 4:20:00 PM
Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3021064	7196_CR6			**Work Order:** MXXEN1AC			**Report DB ID:** 9MXXEN10					
HEXCHROME	**3.86E-01**			0.0E+00	1.55E-01	mg/kg	N/A	*(2.5)*	1/22/13 08:30 a		2.5209	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.23 A2002

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

FORM II

Date: 26-Jan-13

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	J01675	**Collection Date:**	1/22/2013 2:27:00 PM
Lot-Sample No.:	J3A230411-1	**Report No. :**	54360	**Received Date:**	1/23/2013 8:45:00 AM
Client Sample ID:	J1R980	**COC No. :**	RC-074-436	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3023040	7196_CR6			**Work Order:** MXXWJ1CF		**Report DB ID:** MXXWJ1ER			**Orig Sa DB ID:** 9MXXWJ10			
HEXCHROME	4.31E-01			0.0E+00	1.55E-01	mg/kg	N/A	(2.8)	1/23/13 11:30 a		2.4999	
	4.31E-01		**RPD**	**0.0**		3.50E-01		N/A			g	

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

TestAmerica rptSTLRchDupV5. 2.23 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.

FORM II

Date: 26-Jan-13

DUPLICATE RESULTS

Lab Name: TestAmerica **SDG:** J01675 **Collection Date:** 1/21/2013 1:48:00 PM

Lot-Sample No.: J3A210442-1 **Report No. :** 54360 **Received Date:** 1/21/2013 4:20:00 PM

Client Sample ID: J1RC10 **COC No. :** RC-074-459 **Matrix:** SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3021064	7196_CR6			**Work Order:** MXXD71AM		**Report DB ID:** MXXD71ER			**Orig Sa DB ID:** 9MXXD710			
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	1/22/13 08:30 a		2.5177	
	1.55E-01	U	**RPD** 0.0			3.50E-01		N/A			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

BLANK RESULTS

Date: 26-Jan-13

Lab Name: TestAmerica **SDG:** J01675

Matrix: SOIL **Report No. :** 54360

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Lc	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3021064	7196_CR6			**Work Order:**	MXXEP1AA	**Report DB ID:**	MXXEP1AB					
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	1/22/13 08:30 a		2.5	
						1.55E-01		N/A			g	
Batch: 3023040	7196_CR6			**Work Order:**	MXXXH1AA	**Report DB ID:**	MXXXH1AB					
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	1/23/13 11:30 a		2.5	
						1.55E-01		N/A			g	

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

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

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

FORM II

LCS RESULTS

Date: 26-Jan-13

Lab Name: TestAmerica **SDG:** J01675

Matrix: SOIL **Report No. :** 54360

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 3021064	7196_CR6			**Work Order:**	MXXEP1AC		**Report DB ID:**	MXXEP1AS					
HEXCHROME	1.83E+01			0.0E+00	1.55E-01	mg/kg	N/A	1.90E+01		96%	1/22/13 08:30 a	2.5	
							Rec Limits:	80	120	0.0		g	
Batch: 3023040	7196_CR6			**Work Order:**	MXXXH1AC		**Report DB ID:**	MXXXH1AS					
HEXCHROME	1.84E+01			0.0E+00	1.55E-01	mg/kg	N/A	1.90E+01		97%	1/23/13 11:30 a	2.5	
							Rec Limits:	80	120	0.0		g	

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

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

rptSTLRchLcs
V5.2.23 A2002

FORM II

Date: 26-Jan-13

MATRIX SPIKE RESULTS

Lab Name: TestAmerica **SDG:** J01675

Lot-Sample No.: J3A210442-1, J1RC10 **Report No. :** 54360 **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: 3021064	**Work Order:** MXXD71AL			**Report DB ID:** MXXD71CW			**Orig Sa DB ID:** 9MXXD710					
HEXCHROME	2.67E+01			0.0E+00	1.55E-01	mg/kg	N/A	89.36%	2.99E+01	1/22/13 08:30 a	2.5059	7196_CR6
	1.55E-01										g	

Number of Results: 1

Comments:

TestAmerica
rptSTLRchMs
V5.2.23 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.

FORM II

Date: 26-Jan-13

MATRIX SPIKE RESULTS

Lab Name: TestAmerica **SDG:** J01675

Lot-Sample No.: J3A230411-1, J1R980 **Report No. :** 54360 **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: 3023040	**Work Order:** MXXWJ1CE			**Report DB ID:** MXXWJ1CW			**Orig Sa DB ID:** 9MXXWJ10					
HEXCHROME	2.66E+01			0.0E+00	1.55E-01	mg/kg	N/A	87.81%	3.03E+01	1/23/13 11:30 a	2.5005	7196_CR6
	4.31E-01										g	

Number of Results: 1

Comments:

TestAmerica
rptSTLRchMs
V5.2.23 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.

SDG: J01675
SAF: RC-074
BATCH: 3021065
MATRIX: SOIL
ANALYSIS DATE: 1/22/13

Client_id	Matrix	Result_ty	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_S	Reporting_Limits	Uncertainty_1s	Analyzed_s	Analyz	Decision_level_lc	LCSRecc	Adde	Analysis_date_time	Batch_nbr	Test_Meth	Lab_sample_id
J1RC10	SOIL	CS	7440-22-4	Ag	-2.01E-01	U	UG/G	1.01E+01	1.01E+01	2.30E-01	0.2473	G	1.90E-01			1/22/2013 7:18	3021065	46DQ	MXXD71A0
J1RC10	SOIL	CS	7440-38-2	As	1.25E+00	U	UG/G	1.01E+01	1.01E+01	7.80E-01	0.2473	G	6.38E-01			1/22/2013 7:18	3021065	46DQ	MXXD71A0
J1RC10	SOIL	CS	7440-39-3	Ba	5.56E+01		UG/G	2.02E+00	2.02E+00	1.70E-01	0.2473	G	1.41E-01			1/22/2013 7:18	3021065	46DQ	MXXD71A0
J1RC10	SOIL	CS	7440-41-7	Beryllium	2.13E-01		UG/G	1.01E-01	1.01E-01	8.80E-02	0.2473	G	7.24E-02			1/22/2013 7:18	3021065	46DQ	MXXD71A0
J1RC10	SOIL	CS	7440-43-9	Cadmium	7.98E-02	U	UG/G	2.02E+00	2.02E+00	1.50E-02	0.2473	G	1.24E-02			1/22/2013 7:18	3021065	46DQ	MXXD71A0
J1RC10	SOIL	CS	7440-47-3	Chromium	6.47E+00	U	UG/G	1.01E+01	1.01E+01	1.10E-01	0.2473	G	8.75E-02			1/22/2013 7:18	3021065	46DQ	MXXD71A0
J1RC10	SOIL	CS	7439-92-1	Lead	2.30E+00	U	UG/G	1.01E+01	1.01E+01	1.90E-01	0.2473	G	1.55E-01			1/22/2013 7:18	3021065	46DQ	MXXD71A0
J1RC10	SOIL	CS	7782-49-2	Se	6.41E-03	U	UG/G	1.01E+01	1.01E+01	1.90E-01	0.2473	G	1.54E-01			1/22/2013 7:18	3021065	46DQ	MXXD71A0
J1RC11	SOIL	CS	7440-22-4	Ag	-1.92E-01	U	UG/G	9.99E+00	9.99E+00	1.60E-01	0.2502	G	1.31E-01			1/22/2013 7:38	3021065	46DQ	MXXD81AA
J1RC11	SOIL	CS	7440-38-2	As	1.49E+00	U	UG/G	9.99E+00	9.99E+00	5.50E-01	0.2502	G	4.49E-01			1/22/2013 7:38	3021065	46DQ	MXXD81AA
J1RC11	SOIL	CS	7440-39-3	Ba	6.34E+01		UG/G	2.00E+00	2.00E+00	4.20E-01	0.2502	G	3.48E-01			1/22/2013 7:38	3021065	46DQ	MXXD81AA
J1RC11	SOIL	CS	7440-41-7	Beryllium	1.85E-01		UG/G	9.99E-02	9.99E-02	6.00E-03	0.2502	G	4.96E-03			1/22/2013 7:38	3021065	46DQ	MXXD81AA
J1RC11	SOIL	CS	7440-43-9	Cadmium	1.14E-01	U	UG/G	2.00E+00	2.00E+00	6.30E-02	0.2502	G	5.16E-02			1/22/2013 7:38	3021065	46DQ	MXXD81AA
J1RC11	SOIL	CS	7440-47-3	Chromium	7.54E+00	U	UG/G	9.99E+00	9.99E+00	1.40E-01	0.2502	G	1.16E-01			1/22/2013 7:38	3021065	46DQ	MXXD81AA
J1RC11	SOIL	CS	7439-92-1	Lead	2.96E+00	U	UG/G	9.99E+00	9.99E+00	5.60E-01	0.2502	G	4.60E-01			1/22/2013 7:38	3021065	46DQ	MXXD81AA
J1RC11	SOIL	CS	7782-49-2	Se	-3.62E-01	U	UG/G	9.99E+00	9.99E+00	4.40E-01	0.2502	G	3.61E-01			1/22/2013 7:38	3021065	46DQ	MXXD81AA
J1RC12	SOIL	CS	7440-22-4	Ag	-2.07E-01	U	UG/G	1.01E+01	1.01E+01	2.80E-03	0.2487	G	2.27E-03			1/22/2013 7:43	3021065	46DQ	MXXD91AA
J1RC12	SOIL	CS	7440-38-2	As	2.05E+00	U	UG/G	1.01E+01	1.01E+01	5.40E-02	0.2487	G	4.45E-02			1/22/2013 7:43	3021065	46DQ	MXXD91AA
J1RC12	SOIL	CS	7440-39-3	Ba	6.60E+01		UG/G	2.01E+00	2.01E+00	1.90E-01	0.2487	G	1.52E-01			1/22/2013 7:43	3021065	46DQ	MXXD91AA
J1RC12	SOIL	CS	7440-41-7	Beryllium	2.13E-01		UG/G	1.01E-01	1.01E-01	7.40E-03	0.2487	G	6.07E-03			1/22/2013 7:43	3021065	46DQ	MXXD91AA
J1RC12	SOIL	CS	7440-43-9	Cadmium	1.22E-01	U	UG/G	2.01E+00	2.01E+00	3.40E-02	0.2487	G	2.78E-02			1/22/2013 7:43	3021065	46DQ	MXXD91AA
J1RC12	SOIL	CS	7440-47-3	Chromium	7.78E+00	U	UG/G	1.01E+01	1.01E+01	1.30E-02	0.2487	G	1.03E-02			1/22/2013 7:43	3021065	46DQ	MXXD91AA
J1RC12	SOIL	CS	7439-92-1	Lead	3.04E+00	U	UG/G	1.01E+01	1.01E+01	2.90E-01	0.2487	G	2.38E-01			1/22/2013 7:43	3021065	46DQ	MXXD91AA
J1RC12	SOIL	CS	7782-49-2	Se	-2.80E-01	U	UG/G	1.01E+01	1.01E+01	3.50E-01	0.2487	G	2.86E-01			1/22/2013 7:43	3021065	46DQ	MXXD91AA
J1RC13	SOIL	CS	7440-22-4	Ag	-1.83E-01	U	UG/G	1.00E+01	1.00E+01	1.80E-01	0.2494	G	1.48E-01			1/22/2013 7:47	3021065	46DQ	MXXEA1AA
J1RC13	SOIL	CS	7440-38-2	As	1.47E+00	U	UG/G	1.00E+01	1.00E+01	1.60E-02	0.2494	G	1.31E-02			1/22/2013 7:47	3021065	46DQ	MXXEA1AA
J1RC13	SOIL	CS	7440-39-3	Ba	6.89E+01		UG/G	2.00E+00	2.00E+00	2.10E-01	0.2494	G	1.71E-01			1/22/2013 7:47	3021065	46DQ	MXXEA1AA
J1RC13	SOIL	CS	7440-41-7	Beryllium	1.90E-01		UG/G	1.00E-01	1.00E-01	1.50E-02	0.2494	G	1.22E-02			1/22/2013 7:47	3021065	46DQ	MXXEA1AA
J1RC13	SOIL	CS	7440-43-9	Cadmium	7.78E-02	U	UG/G	2.00E+00	2.00E+00	1.80E-02	0.2494	G	1.49E-02			1/22/2013 7:47	3021065	46DQ	MXXEA1AA
J1RC13	SOIL	CS	7440-47-3	Chromium	9.70E+00	U	UG/G	1.00E+01	1.00E+01	1.10E-01	0.2494	G	8.80E-02			1/22/2013 7:47	3021065	46DQ	MXXEA1AA
J1RC13	SOIL	CS	7439-92-1	Lead	2.53E+00	U	UG/G	1.00E+01	1.00E+01	2.50E-01	0.2494	G	2.07E-01			1/22/2013 7:47	3021065	46DQ	MXXEA1AA
J1RC13	SOIL	CS	7782-49-2	Se	-2.16E-01	U	UG/G	1.00E+01	1.00E+01	4.60E-01	0.2494	G	3.78E-01			1/22/2013 7:47	3021065	46DQ	MXXEA1AA
J1RC14	SOIL	CS	7440-22-4	Ag	-1.46E-01	U	UG/G	9.92E+00	9.92E+00	1.90E-01	0.252	G	1.60E-01			1/22/2013 8:06	3021065	46DQ	MXXEC1AA
J1RC14	SOIL	CS	7440-38-2	As	2.02E+00	U	UG/G	9.92E+00	9.92E+00	3.40E-01	0.252	G	2.81E-01			1/22/2013 8:06	3021065	46DQ	MXXEC1AA
J1RC14	SOIL	CS	7440-39-3	Ba	1.21E+02		UG/G	1.98E+00	1.98E+00	1.90E+00	0.252	G	1.54E+00			1/22/2013 8:06	3021065	46DQ	MXXEC1AA
J1RC14	SOIL	CS	7440-41-7	Beryllium	2.25E-01		UG/G	9.92E-02	9.92E-02	2.00E-03	0.252	G	1.62E-03			1/22/2013 8:06	3021065	46DQ	MXXEC1AA
J1RC14	SOIL	CS	7440-43-9	Cadmium	1.11E-01	U	UG/G	1.98E+00	1.98E+00	1.70E-02	0.252	G	1.42E-02			1/22/2013 8:06	3021065	46DQ	MXXEC1AA
J1RC14	SOIL	CS	7440-47-3	Chromium	2.32E+01		UG/G	9.92E+00	9.92E+00	1.20E-01	0.252	G	9.84E-02			1/22/2013 8:06	3021065	46DQ	MXXEC1AA
J1RC14	SOIL	CS	7439-92-1	Lead	3.40E+00	U	UG/G	9.92E+00	9.92E+00	4.50E-01	0.252	G	3.74E-01			1/22/2013 8:06	3021065	46DQ	MXXEC1AA
J1RC14	SOIL	CS	7782-49-2	Se	-2.72E-01	U	UG/G	9.92E+00	9.92E+00	2.50E-01	0.252	G	2.02E-01			1/22/2013 8:06	3021065	46DQ	MXXEC1AA
J1RC15	SOIL	CS	7440-22-4	Ag	-1.12E-01	U	UG/G	1.01E+01	1.01E+01	3.50E-01	0.2484	G	2.89E-01			1/22/2013 8:10	3021065	46DQ	MXXED1AA
J1RC15	SOIL	CS	7440-38-2	As	1.88E+00	U	UG/G	1.01E+01	1.01E+01	6.70E-01	0.2484	G	5.49E-01			1/22/2013 8:10	3021065	46DQ	MXXED1AA
J1RC15	SOIL	CS	7440-39-3	Ba	6.75E+01		UG/G	2.01E+00	2.01E+00	2.70E-01	0.2484	G	2.21E-01			1/22/2013 8:10	3021065	46DQ	MXXED1AA
J1RC15	SOIL	CS	7440-41-7	Beryllium	2.30E-01		UG/G	1.01E-01	1.01E-01	3.30E-03	0.2484	G	2.71E-03			1/22/2013 8:10	3021065	46DQ	MXXED1AA
J1RC15	SOIL	CS	7440-43-9	Cadmium	1.17E-01	U	UG/G	2.01E+00	2.01E+00	1.30E-02	0.2484	G	1.06E-02			1/22/2013 8:10	3021065	46DQ	MXXED1AA
J1RC15	SOIL	CS	7440-47-3	Chromium	6.11E+00	U	UG/G	1.01E+01	1.01E+01	8.70E-02	0.2484	G	7.12E-02			1/22/2013 8:10	3021065	46DQ	MXXED1AA
J1RC15	SOIL	CS	7439-92-1	Lead	3.08E+00	U	UG/G	1.01E+01	1.01E+01	4.10E-02	0.2484	G	3.41E-02			1/22/2013 8:10	3021065	46DQ	MXXED1AA
J1RC15	SOIL	CS	7782-49-2	Se	-6.22E-02	U	UG/G	1.01E+01	1.01E+01	6.80E-01	0.2484	G	5.61E-01			1/22/2013 8:10	3021065	46DQ	MXXED1AA
J1RC16	SOIL	CS	7440-22-4	Ag	-1.20E-01	U	UG/G	9.85E+00	9.85E+00	5.00E-02	0.2537	G	4.14E-02			1/22/2013 8:14	3021065	46DQ	MXXEE1AA
J1RC16	SOIL	CS	7440-38-2	As	1.69E+00	U	UG/G	9.85E+00	9.85E+00	1.40E-01	0.2537	G	1.19E-01			1/22/2013 8:14	3021065	46DQ	MXXEE1AA
J1RC16	SOIL	CS	7440-39-3	Ba	5.95E+01		UG/G	1.97E+00	1.97E+00	2.40E-01	0.2537	G	1.97E-01			1/22/2013 8:14	3021065	46DQ	MXXEE1AA
J1RC16	SOIL	CS	7440-41-7	Beryllium	1.99E-01		UG/G	9.85E-02	9.85E-02	1.60E-02	0.2537	G	1.33E-02			1/22/2013 8:14	3021065	46DQ	MXXEE1AA
J1RC16	SOIL	CS	7440-43-9	Cadmium	1.12E-01	U	UG/G	1.97E+00	1.97E+00	3.30E-02	0.2537	G	2.70E-02			1/22/2013 8:14	3021065	46DQ	MXXEE1AA
J1RC16	SOIL	CS	7440-47-3	Chromium	8.18E+00	U	UG/G	9.85E+00	9.85E+00	5.90E-02	0.2537	G	4.84E-02			1/22/2013 8:14	3021065	46DQ	MXXEE1AA
J1RC16	SOIL	CS	7439-92-1	Lead	3.25E+00	U	UG/G	9.85E+00	9.85E+00	1.90E-01	0.2537	G	1.54E-01			1/22/2013 8:14	3021065	46DQ	MXXEE1AA
J1RC16	SOIL	CS	7782-49-2	Se	-2.17E-01	U	UG/G	9.85E+00	9.85E+00	6.10E-01	0.2537	G	5.01E-01			1/22/2013 8:14	3021065	46DQ	MXXEE1AA
J1RC17	SOIL	CS	7440-22-4	Ag	-1.89E-01	U	UG/G	1.01E+01	1.01E+01	2.40E-01	0.2481	G	1.97E-01			1/22/2013 8:18	3021065	46DQ	MXXEF1AA
J1RC17	SOIL	CS	7440-38-2	As	1.40E+00	U	UG/G	1.01E+01	1.01E+01	1.50E-01	0.2481	G	1.20E-01			1/22/2013 8:18	3021065	46DQ	MXXEF1AA
J1RC17	SOIL	CS	7440-39-3	Ba	6.76E+01		UG/G	2.02E+00	2.02E+00	7.60E-01	0.2481	G	6.24E-01			1/22/2013 8:18	3021065	46DQ	MXXEF1AA
J1RC17	SOIL	CS	7440-41-7	Beryllium	2.06E-01		UG/G	1.01E-01	1.01E-01	5.30E-03	0.2481	G	4.40E-03			1/22/2013 8:18	3021065	46DQ	MXXEF1AA
J1RC17	SOIL	CS	7440-43-9	Cadmium	1.33E-01	U	UG/G	2.02E+00	2.02E+00	1.20E-02	0.2481	G	9.59E-03			1/22/2013 8:18	3021065	46DQ	MXXEF1AA
J1RC17	SOIL	CS	7440-47-3	Chromium	8.17E+00	U	UG/G	1.01E+01	1.01E+01	1.40E-01	0.2481	G	1.16E-01			1/22/2013 8:18	3021065	46DQ	MXXEF1AA
J1RC17	SOIL	CS	7439-92-1	Lead	2.95E+00	U	UG/G	1.01E+01	1.01E+01	4.40E-01	0.2481	G	3.62E-01			1/22/2013 8:18	3021065	46DQ	MXXEF1AA
J1RC17	SOIL	CS	7782-49-2	Se	-1.00E-01	U	UG/G	1.01E+01	1.01E+01	3.90E-01	0.2481	G	3.22E-01			1/22/2013 8:18	3021065	46DQ	MXXEF1AA
J1RC18	SOIL	CS	7440-22-4	Ag	-1.56E-01	U	UG/G	9.98E+00	9.98E+00	7.60E-02	0.2504	G	6.26E-02			1/22/2013 8:23	3021065	46DQ	MXXEG1AA
J1RC18	SOIL	CS	7440-38-2	As	1.61E+00	U	UG/G	9.98E+00	9.98E+00	2.60E-01	0.2504	G	2.16E-01			1/22/2013 8:23	3021065	46DQ	MXXEG1AA
J1RC18	SOIL	CS	7440-39-3	Ba	6.54E+01		UG/G	2.00E+00	2.00E+00	6.90E+00	0.2504	G	5.68E+00			1/22/2013 8:23	3021065	46DQ	MXXEG1AA

Client_id	Matrix	Result_t	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_S	Reporting_Limits	Uncertainty_1s	Analyzed_s	Analyz	Decision_level_lc	LCSRecc	Adde	Analysis_date_time	Batch_nbr	Test_Meth	Lab_sample_id
J1RC18	SOIL	CS	7440-41-7	Beryllium	1.99E-01		UG/G	9.98E-02	9.98E-02	2.10E-02	0.2504	G	1.73E-02			1/22/2013 8:23	3021065	46DQ	MXXEG1AA
J1RC18	SOIL	CS	7440-43-9	Cadmium	1.12E-01	U	UG/G	2.00E+00	2.00E+00	3.70E-03	0.2504	G	3.00E-03			1/22/2013 8:23	3021065	46DQ	MXXEG1AA
J1RC18	SOIL	CS	7440-47-3	Chromium	7.49E+00	U	UG/G	9.98E+00	9.98E+00	8.30E-01	0.2504	G	6.82E-01			1/22/2013 8:23	3021065	46DQ	MXXEG1AA
J1RC18	SOIL	CS	7439-92-1	Lead	3.13E+00	U	UG/G	9.98E+00	9.98E+00	1.70E-01	0.2504	G	1.42E-01			1/22/2013 8:23	3021065	46DQ	MXXEG1AA
J1RC18	SOIL	CS	7782-49-2	Se	-5.41E-01	U	UG/G	9.98E+00	9.98E+00	3.10E-01	0.2504	G	2.52E-01			1/22/2013 8:23	3021065	46DQ	MXXEG1AA
J1RC19	SOIL	CS	7440-22-4	Ag	-2.20E-01	U	UG/G	1.00E+01	1.00E+01	1.80E-01	0.2494	G	1.48E-01			1/22/2013 8:28	3021065	46DQ	MXXEH1AA
J1RC19	SOIL	CS	7440-38-2	As	1.65E+00	U	UG/G	1.00E+01	1.00E+01	3.50E-01	0.2494	G	2.91E-01			1/22/2013 8:28	3021065	46DQ	MXXEH1AA
J1RC19	SOIL	CS	7440-39-3	Ba	6.49E+01		UG/G	2.00E+00	2.00E+00	1.40E-02	0.2494	G	1.12E-02			1/22/2013 8:28	3021065	46DQ	MXXEH1AA
J1RC19	SOIL	CS	7440-41-7	Beryllium	2.02E-01		UG/G	1.00E-01	1.00E-01	2.10E-02	0.2494	G	1.71E-02			1/22/2013 8:28	3021065	46DQ	MXXEH1AA
J1RC19	SOIL	CS	7440-43-9	Cadmium	9.64E-02	U	UG/G	2.00E+00	2.00E+00	1.90E-02	0.2494	G	1.59E-02			1/22/2013 8:28	3021065	46DQ	MXXEH1AA
J1RC19	SOIL	CS	7440-47-3	Chromium	7.42E+00	U	UG/G	1.00E+01	1.00E+01	1.70E-01	0.2494	G	1.40E-01			1/22/2013 8:28	3021065	46DQ	MXXEH1AA
J1RC19	SOIL	CS	7439-92-1	Lead	2.84E+00	U	UG/G	1.00E+01	1.00E+01	2.20E-01	0.2494	G	1.81E-01			1/22/2013 8:28	3021065	46DQ	MXXEH1AA
J1RC19	SOIL	CS	7782-49-2	Se	-4.14E-01	U	UG/G	1.00E+01	1.00E+01	6.80E-01	0.2494	G	5.60E-01			1/22/2013 8:28	3021065	46DQ	MXXEH1AA
J1RC20	SOIL	CS	7440-22-4	Ag	-1.70E-01	U	UG/G	9.98E+00	9.98E+00	5.10E-02	0.2506	G	4.20E-02			1/22/2013 8:34	3021065	46DQ	MXXEJ1AA
J1RC20	SOIL	CS	7440-38-2	As	1.61E+00	U	UG/G	9.98E+00	9.98E+00	3.20E-01	0.2506	G	2.63E-01			1/22/2013 8:34	3021065	46DQ	MXXEJ1AA
J1RC20	SOIL	CS	7440-39-3	Ba	7.10E+01		UG/G	2.00E+00	2.00E+00	1.20E-01	0.2506	G	1.03E-01			1/22/2013 8:34	3021065	46DQ	MXXEJ1AA
J1RC20	SOIL	CS	7440-41-7	Beryllium	2.17E-01		UG/G	9.98E-02	9.98E-02	5.90E-03	0.2506	G	4.86E-03			1/22/2013 8:34	3021065	46DQ	MXXEJ1AA
J1RC20	SOIL	CS	7440-43-9	Cadmium	1.10E-01	U	UG/G	2.00E+00	2.00E+00	9.00E-03	0.2506	G	7.43E-03			1/22/2013 8:34	3021065	46DQ	MXXEJ1AA
J1RC20	SOIL	CS	7440-47-3	Chromium	9.29E+00	U	UG/G	9.98E+00	9.98E+00	6.90E-02	0.2506	G	5.64E-02			1/22/2013 8:34	3021065	46DQ	MXXEJ1AA
J1RC20	SOIL	CS	7439-92-1	Lead	3.22E+00	U	UG/G	9.98E+00	9.98E+00	3.30E-01	0.2506	G	2.69E-01			1/22/2013 8:34	3021065	46DQ	MXXEJ1AA
J1RC20	SOIL	CS	7782-49-2	Se	-2.04E-01	U	UG/G	9.98E+00	9.98E+00	7.10E-01	0.2506	G	5.82E-01			1/22/2013 8:34	3021065	46DQ	MXXEJ1AA
J1RC21	SOIL	CS	7440-22-4	Ag	-1.81E-01	U	UG/G	1.00E+01	1.00E+01	1.30E-01	0.2494	G	1.09E-01			1/22/2013 8:39	3021065	46DQ	MXXEK1AA
J1RC21	SOIL	CS	7440-38-2	As	1.26E+00	U	UG/G	1.00E+01	1.00E+01	2.60E-01	0.2494	G	2.16E-01			1/22/2013 8:39	3021065	46DQ	MXXEK1AA
J1RC21	SOIL	CS	7440-39-3	Ba	5.70E+01		UG/G	2.00E+00	2.00E+00	1.90E-01	0.2494	G	1.56E-01			1/22/2013 8:39	3021065	46DQ	MXXEK1AA
J1RC21	SOIL	CS	7440-41-7	Beryllium	1.83E-01		UG/G	1.00E-01	1.00E-01	1.20E-03	0.2494	G	9.57E-04			1/22/2013 8:39	3021065	46DQ	MXXEK1AA
J1RC21	SOIL	CS	7440-43-9	Cadmium	9.90E-02	U	UG/G	2.00E+00	2.00E+00	1.70E-02	0.2494	G	1.40E-02			1/22/2013 8:39	3021065	46DQ	MXXEK1AA
J1RC21	SOIL	CS	7440-47-3	Chromium	1.16E+01		UG/G	1.00E+01	1.00E+01	7.90E-02	0.2494	G	6.49E-02			1/22/2013 8:39	3021065	46DQ	MXXEK1AA
J1RC21	SOIL	CS	7439-92-1	Lead	2.95E+00	U	UG/G	1.00E+01	1.00E+01	3.00E-01	0.2494	G	2.45E-01			1/22/2013 8:39	3021065	46DQ	MXXEK1AA
J1RC21	SOIL	CS	7782-49-2	Se	-3.36E-01	U	UG/G	1.00E+01	1.00E+01	1.30E+00	0.2494	G	1.06E+00			1/22/2013 8:39	3021065	46DQ	MXXEK1AA
J1RC22	SOIL	CS	7440-22-4	Ag	-1.73E-01	U	UG/G	9.99E+00	9.99E+00	1.20E-01	0.2502	G	9.64E-02			1/22/2013 8:44	3021065	46DQ	MXXEL1AA
J1RC22	SOIL	CS	7440-38-2	As	1.54E+00	U	UG/G	9.99E+00	9.99E+00	2.10E-01	0.2502	G	1.72E-01			1/22/2013 8:44	3021065	46DQ	MXXEL1AA
J1RC22	SOIL	CS	7440-39-3	Ba	1.97E+02		UG/G	2.00E+00	2.00E+00	3.40E+00	0.2502	G	2.78E+00			1/22/2013 8:44	3021065	46DQ	MXXEL1AA
J1RC22	SOIL	CS	7440-41-7	Beryllium	2.04E-01		UG/G	9.99E-02	9.99E-02	1.40E-02	0.2502	G	1.11E-02			1/22/2013 8:44	3021065	46DQ	MXXEL1AA
J1RC22	SOIL	CS	7440-43-9	Cadmium	7.89E-02	U	UG/G	2.00E+00	2.00E+00	2.20E-02	0.2502	G	1.82E-02			1/22/2013 8:44	3021065	46DQ	MXXEL1AA
J1RC22	SOIL	CS	7440-47-3	Chromium	5.57E+00	U	UG/G	9.99E+00	9.99E+00	1.90E-01	0.2502	G	1.53E-01			1/22/2013 8:44	3021065	46DQ	MXXEL1AA
J1RC22	SOIL	CS	7439-92-1	Lead	3.54E+00	U	UG/G	9.99E+00	9.99E+00	2.10E-01	0.2502	G	1.73E-01			1/22/2013 8:44	3021065	46DQ	MXXEL1AA
J1RC22	SOIL	CS	7782-49-2	Se	-2.62E-01	U	UG/G	9.99E+00	9.99E+00	2.00E-01	0.2502	G	1.63E-01			1/22/2013 8:44	3021065	46DQ	MXXEL1AA
J1RC23	SOIL	CS	7440-22-4	Ag	-3.54E-01	U	UG/G	9.92E+00	9.92E+00	1.90E-01	0.2519	G	1.57E-01			1/22/2013 8:49	3021065	46DQ	MXXEM1AA
J1RC23	SOIL	CS	7440-38-2	As	1.45E+00	U	UG/G	9.92E+00	9.92E+00	6.70E-02	0.2519	G	5.52E-02			1/22/2013 8:49	3021065	46DQ	MXXEM1AA
J1RC23	SOIL	CS	7440-39-3	Ba	6.22E+01		UG/G	1.98E+00	1.98E+00	1.30E+00	0.2519	G	1.03E+00			1/22/2013 8:49	3021065	46DQ	MXXEM1AA
J1RC23	SOIL	CS	7440-41-7	Beryllium	2.22E-01		UG/G	9.92E-02	9.92E-02	1.10E-02	0.2519	G	9.39E-03			1/22/2013 8:49	3021065	46DQ	MXXEM1AA
J1RC23	SOIL	CS	7440-43-9	Cadmium	1.19E-01	U	UG/G	1.98E+00	1.98E+00	3.80E-02	0.2519	G	3.15E-02			1/22/2013 8:49	3021065	46DQ	MXXEM1AA
J1RC23	SOIL	CS	7440-47-3	Chromium	8.66E+00	U	UG/G	9.92E+00	9.92E+00	3.30E-01	0.2519	G	2.71E-01			1/22/2013 8:49	3021065	46DQ	MXXEM1AA
J1RC23	SOIL	CS	7439-92-1	Lead	3.64E+00	U	UG/G	9.92E+00	9.92E+00	1.40E-01	0.2519	G	1.18E-01			1/22/2013 8:49	3021065	46DQ	MXXEM1AA
J1RC23	SOIL	CS	7782-49-2	Se	-2.32E-01	U	UG/G	9.92E+00	9.92E+00	8.80E-01	0.2519	G	7.26E-01			1/22/2013 8:49	3021065	46DQ	MXXEM1AA
J1RC24	SOIL	CS	7440-22-4	Ag	-1.99E-01	U	UG/G	1.01E+01	1.01E+01	1.90E-01	0.2484	G	1.59E-01			1/22/2013 9:07	3021065	46DQ	MXXEN1AA
J1RC24	SOIL	CS	7440-38-2	As	2.04E+00	U	UG/G	1.01E+01	1.01E+01	7.60E-01	0.2484	G	6.29E-01			1/22/2013 9:07	3021065	46DQ	MXXEN1AA
J1RC24	SOIL	CS	7440-39-3	Ba	6.48E+01		UG/G	2.01E+00	2.01E+00	5.60E-01	0.2484	G	4.62E-01			1/22/2013 9:07	3021065	46DQ	MXXEN1AA
J1RC24	SOIL	CS	7440-41-7	Beryllium	2.23E-01		UG/G	1.01E-01	1.01E-01	5.50E-03	0.2484	G	4.49E-03			1/22/2013 9:07	3021065	46DQ	MXXEN1AA
J1RC24	SOIL	CS	7440-43-9	Cadmium	1.35E-01	U	UG/G	2.01E+00	2.01E+00	1.10E-02	0.2484	G	9.27E-03			1/22/2013 9:07	3021065	46DQ	MXXEN1AA
J1RC24	SOIL	CS	7440-47-3	Chromium	2.39E+01		UG/G	1.01E+01	1.01E+01	3.00E-01	0.2484	G	2.50E-01			1/22/2013 9:07	3021065	46DQ	MXXEN1AA
J1RC24	SOIL	CS	7439-92-1	Lead	3.60E+00	U	UG/G	1.01E+01	1.01E+01	2.90E-01	0.2484	G	2.41E-01			1/22/2013 9:07	3021065	46DQ	MXXEN1AA
J1RC24	SOIL	CS	7782-49-2	Se	-7.75E-02	U	UG/G	1.01E+01	1.01E+01	2.20E-01	0.2484	G	1.82E-01			1/22/2013 9:07	3021065	46DQ	MXXEN1AA
INTRA-LAB BLANK	SOIL	BLK	7440-22-4	Ag	5.36E-04	U	MG/L	5.00E-02	5.00E-02	8.60E-04	0.2477	L	7.09E-04			1/22/2013 7:06	3021065	46DQ	MXXER1AA
INTRA-LAB BLANK	SOIL	BLK	7440-38-2	As	2.28E-03	U	MG/L	5.00E-02	5.00E-02	2.70E-03	0.2477	L	2.21E-03			1/22/2013 7:06	3021065	46DQ	MXXER1AA
INTRA-LAB BLANK	SOIL	BLK	7440-39-3	Ba	2.06E-05	U	MG/L	1.00E-02	1.00E-02	3.20E-05	0.2477	L	2.62E-05			1/22/2013 7:06	3021065	46DQ	MXXER1AA
INTRA-LAB BLANK	SOIL	BLK	7440-41-7	Beryllium	1.40E-05	U	MG/L	5.00E-04	5.00E-04	2.10E-05	0.2477	L	1.74E-05			1/22/2013 7:06	3021065	46DQ	MXXER1AA
INTRA-LAB BLANK	SOIL	BLK	7440-43-9	Cadmium	1.36E-04	U	MG/L	1.00E-02	1.00E-02	1.50E-04	0.2477	L	1.19E-04			1/22/2013 7:06	3021065	46DQ	MXXER1AA
INTRA-LAB BLANK	SOIL	BLK	7440-47-3	Chromium	6.77E-05	U	MG/L	5.00E-02	5.00E-02	6.40E-04	0.2477	L	5.25E-04			1/22/2013 7:06	3021065	46DQ	MXXER1AA
INTRA-LAB BLANK	SOIL	BLK	7439-92-1	Lead	-8.79E-04	U	MG/L	5.00E-02	5.00E-02	3.50E-04	0.2477	L	2.84E-04			1/22/2013 7:06	3021065	46DQ	MXXER1AA
INTRA-LAB BLANK	SOIL	BLK	7782-49-2	Se	1.68E-03	U	MG/L	5.00E-02	5.00E-02	4.40E-04	0.2477	L	3.63E-04			1/22/2013 7:06	3021065	46DQ	MXXER1AA
INTRA-LAB CHECK	SOIL	LCS	7440-22-4	Ag	9.55E-01		MG/L	5.00E-02	5.00E-02	7.80E-03	0.2467	L	6.45E-03	0.96	1	1/22/2013 7:10	3021065	46DQ	MXXER1AA
INTRA-LAB CHECK	SOIL	LCS	7440-38-2	As	9.22E-01		MG/L	5.00E-02	5.00E-02	4.10E-03	0.2467	L	3.39E-03	0.92	1	1/22/2013 7:10	3021065	46DQ	MXXER1AA
INTRA-LAB CHECK	SOIL	LCS	7440-39-3	Ba	1.01E+00		MG/L	1.00E-02	1.00E-02	2.50E-02	0.2467	L	2.07E-02	1.01	1	1/22/2013 7:10	3021065	46DQ	MXXER1AA
INTRA-LAB CHECK	SOIL	LCS	7440-41-7	Beryllium	9.47E-01		MG/L	5.00E-04	5.00E-04	8.80E-03	0.2467	L	7.24E-03	0.95	1	1/22/2013 7:10	3021065	46DQ	MXXER1AA
INTRA-LAB CHECK	SOIL	LCS	7440-43-9	Cadmium	9.04E-01		MG/L	1.00E-02	1.00E-02	6.10E-04	0.2467	L	5.02E-04	0.9	1	1/22/2013 7:10	3021065	46DQ	MXXER1AA
INTRA-LAB CHECK	SOIL	LCS	7440-47-3	Chromium	9.51E-01		MG/L	5.00E-02	5.00E-02	8.30E-03	0.2467	L	6.81E-03	0.95	1	1/22/2013 7:10	3021065	46DQ	MXXER1AA
INTRA-LAB CHECK	SOIL	LCS	7439-92-1	Lead	9.26E-01		MG/L	5.00E-02	5.00E-02	2.30E-03	0.2467	L	1.88E-03	0.93	1	1/22/2013 7:10	3021065	46DQ	MXXER1AA
INTRA-LAB CHECK	SOIL	LCS	7782-49-2	Se	8.49E-01		MG/L	5.00E-02	5.00E-02	3.30E-03	0.2467	L	2.74E-03	0.85	1	1/22/2013 7:10	3021065	46DQ	MXXER1AA
J1RC10 DUP	SOIL	DUP	7440-22-4	Ag	-1.56E-01	U	UG/G	1.00E+01	1.00E+01	5.30E-02	0.2492	G	4.33E-02			1/22/2013 7:33	3021065	46DQ	MXXD71A0
J1RC10 DUP	SOIL	DUP	7440-38-2	As	1.29E+00	U	UG/G	1.00E+01	1.00E+01	3.10E-01	0.2492	G	2.58E-01			1/22/2013 7:33	3021065	46DQ	MXXD71A0
J1RC10 DUP	SOIL	DUP	7440-39-3	Ba	6.34E+01		UG/G	2.01E+00	2.01E+00	2.00E-01	0.2492	G	1.63E-01			1/22/2013 7:33	3021065	46DQ	MXXD71A0
J1RC10 DUP	SOIL	DUP	7440-41-7	Beryllium	2.19E-01		UG/G	1.00E-01	1.00E-01	9.40E-03	0.2492	G	7.70E-03			1/22/2013 7:33	3021065	46DQ	MXXD71A0
J1RC10 DUP	SOIL	DUP	7440-43-9	Cadmium	1.38E-01	U	UG/G	2.01E+00	2.01E+00	6.60E-02	0.2492	G	5.47E-02			1/22/2013 7:33	3021065	46DQ	MXXD71A0
J1RC10 DUP	SOIL	DUP	7440-47-3	Chromium	6.80E+00	U	UG/G	1.00E+01	1.00E+01	1.20E-01	0.2492	G	9.49E-02			1/22/2013 7:33	3021065	46DQ	MXXD71A0

Client_id	Matrix	Result_t	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_S	Reporting_Limits	Uncertainty_1s	Analyzed_s	Analyz	Decision_level_lc	LCSRecc	Adder	Analysis_date_time	Batch_nbr	Test_Meth	Lab_sample_id
J1RC10 DUP	SOIL	DUP	7439-92-1	Lead	2.64E+00	U	UG/G	1.00E+01	1.00E+01	3.70E-01	0.2492	G	3.02E-01			1/22/2013 7:33	3021065	46DQ	MXXD71A0
J1RC10 DUP	SOIL	DUP	7782-49-2	Se	-1.69E-01	U	UG/G	1.00E+01	1.00E+01	4.60E-01	0.2492	G	3.80E-01			1/22/2013 7:33	3021065	46DQ	MXXD71A0
J1RC10	SOIL	MS	7440-22-4	Ag	1.86E+02		% REC(	1.01E+01	1.01E+01	7.90E-01	0.2466	L	6.54E-01	0.92	203	1/22/2013 7:23	3021065	46DQ	MXXD71A0
J1RC10	SOIL	MS	7440-38-2	As	1.87E+02		% REC(	1.01E+01	1.01E+01	1.50E-01	0.2466	L	1.22E-01	0.92	203	1/22/2013 7:23	3021065	46DQ	MXXD71A0
J1RC10	SOIL	MS	7440-39-3	Ba	2.00E+02		% REC(	2.03E+00	2.03E+00	2.20E+00	0.2466	L	1.85E+00	0.99	203	1/22/2013 7:23	3021065	46DQ	MXXD71A0
J1RC10	SOIL	MS	7440-41-7	Beryllium	1.90E+02		% REC(	1.01E-01	1.01E-01	4.70E-01	0.2466	L	3.88E-01	0.94	203	1/22/2013 7:23	3021065	46DQ	MXXD71A0
J1RC10	SOIL	MS	7440-43-9	Cadmium	1.82E+02		% REC(	2.03E+00	2.03E+00	1.50E-01	0.2466	L	1.21E-01	0.9	203	1/22/2013 7:23	3021065	46DQ	MXXD71A0
J1RC10	SOIL	MS	7440-47-3	Chromium	1.85E+02		% REC(	1.01E+01	1.01E+01	8.60E-01	0.2466	L	7.05E-01	0.91	203	1/22/2013 7:23	3021065	46DQ	MXXD71A0
J1RC10	SOIL	MS	7439-92-1	Lead	1.79E+02		% REC(	1.01E+01	1.01E+01	8.50E-01	0.2466	L	6.97E-01	0.88	203	1/22/2013 7:23	3021065	46DQ	MXXD71A0
J1RC10	SOIL	MS	7782-49-2	Se	1.72E+02		% REC(	1.01E+01	1.01E+01	7.40E-01	0.2466	L	6.06E-01	0.85	203	1/22/2013 7:23	3021065	46DQ	MXXD71A0
J1RC10	SOIL	MSD	7440-22-4	Ag	1.82E+02		% REC(	9.90E+00	9.90E+00	1.90E+00	0.2525	L	1.58E+00	0.92	198	1/22/2013 7:28	3021065	46DQ	MXXD71A0
J1RC10	SOIL	MSD	7440-38-2	As	1.79E+02		% REC(	9.90E+00	9.90E+00	1.30E+00	0.2525	L	1.03E+00	0.9	198	1/22/2013 7:28	3021065	46DQ	MXXD71A0
J1RC10	SOIL	MSD	7440-39-3	Ba	1.93E+02		% REC(	1.98E+00	1.98E+00	4.10E+00	0.2525	L	3.36E+00	0.97	198	1/22/2013 7:28	3021065	46DQ	MXXD71A0
J1RC10	SOIL	MSD	7440-41-7	Beryllium	1.85E+02		% REC(	9.90E-02	9.90E-02	1.10E+00	0.2525	L	8.99E-01	0.93	198	1/22/2013 7:28	3021065	46DQ	MXXD71A0
J1RC10	SOIL	MSD	7440-43-9	Cadmium	1.75E+02		% REC(	1.98E+00	1.98E+00	3.80E-01	0.2525	L	3.12E-01	0.88	198	1/22/2013 7:28	3021065	46DQ	MXXD71A0
J1RC10	SOIL	MSD	7440-47-3	Chromium	1.81E+02		% REC(	9.90E+00	9.90E+00	1.00E+00	0.2525	L	8.55E-01	0.91	198	1/22/2013 7:28	3021065	46DQ	MXXD71A0
J1RC10	SOIL	MSD	7439-92-1	Lead	1.72E+02		% REC(	9.90E+00	9.90E+00	7.30E-01	0.2525	L	5.99E-01	0.87	198	1/22/2013 7:28	3021065	46DQ	MXXD71A0
J1RC10	SOIL	MSD	7782-49-2	Se	1.63E+02		% REC(	9.90E+00	9.90E+00	8.90E-01	0.2525	L	7.29E-01	0.83	198	1/22/2013 7:28	3021065	46DQ	MXXD71A0

SDG: J01675
SAF: RC-074
BATCH: 3023038
MATRIX: SOIL
ANALYSIS DATE: 1/23/13

Client_id	Matrix	Result_	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_S	Reporting_Limits	Uncertainty_1s	Analyzed_s	Analyze	Decision_level_lc	LCSRec	Adde	Analysis_date_time	Batch_nbr	Test_Meth	Lab_sample_id
J1R980	SOIL	CS	7440-22-4	Ag	-7.17E-02	U	UG/G	9.92E+00	9.92E+00	1.80E-01	0.252	G	1.49E-01			1/23/2013 15:34	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	CS	7440-38-2	As	1.54E+00	U	UG/G	9.92E+00	9.92E+00	4.90E-01	0.252	G	4.05E-01			1/23/2013 15:34	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	CS	7440-39-3	Ba	5.77E+01		UG/G	1.98E+00	1.98E+00	7.90E-02	0.252	G	6.49E-02			1/23/2013 15:34	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	CS	7440-41-7	Beryllium	1.99E-01		UG/G	9.92E-02	9.92E-02	4.90E-03	0.252	G	4.01E-03			1/23/2013 15:34	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	CS	7440-43-9	Cadmium	1.16E-01	U	UG/G	1.98E+00	1.98E+00	2.20E-02	0.252	G	1.80E-02			1/23/2013 15:34	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	CS	7440-47-3	Chromium	6.70E+00	U	UG/G	9.92E+00	9.92E+00	2.10E-01	0.252	G	1.77E-01			1/23/2013 15:34	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	CS	7439-92-1	Lead	2.86E+00	U	UG/G	9.92E+00	9.92E+00	2.90E-01	0.252	G	2.40E-01			1/23/2013 15:34	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	CS	7782-49-2	Se	-1.15E-01	U	UG/G	9.92E+00	9.92E+00	4.10E-01	0.252	G	3.37E-01			1/23/2013 15:34	3023038	46DQ	MXXWJ1A0
J1R981	SOIL	CS	7440-22-4	Ag	-1.20E-01	U	UG/G	9.99E+00	9.99E+00	1.10E-01	0.2503	G	8.78E-02			1/23/2013 15:54	3023038	46DQ	MXXWK1AA
J1R981	SOIL	CS	7440-38-2	As	1.06E+00	U	UG/G	9.99E+00	9.99E+00	9.30E-02	0.2503	G	7.64E-02			1/23/2013 15:54	3023038	46DQ	MXXWK1AA
J1R981	SOIL	CS	7440-39-3	Ba	4.99E+01		UG/G	2.00E+00	2.00E+00	1.90E-01	0.2503	G	1.60E-01			1/23/2013 15:54	3023038	46DQ	MXXWK1AA
J1R981	SOIL	CS	7440-41-7	Beryllium	1.78E-01		UG/G	9.99E-02	9.99E-02	1.90E-02	0.2503	G	1.57E-02			1/23/2013 15:54	3023038	46DQ	MXXWK1AA
J1R981	SOIL	CS	7440-43-9	Cadmium	9.90E-02	U	UG/G	2.00E+00	2.00E+00	1.80E-02	0.2503	G	1.45E-02			1/23/2013 15:54	3023038	46DQ	MXXWK1AA
J1R981	SOIL	CS	7440-47-3	Chromium	1.80E+01		UG/G	9.99E+00	9.99E+00	1.20E-01	0.2503	G	1.00E-01			1/23/2013 15:54	3023038	46DQ	MXXWK1AA
J1R981	SOIL	CS	7439-92-1	Lead	2.63E+00	U	UG/G	9.99E+00	9.99E+00	2.20E-01	0.2503	G	1.78E-01			1/23/2013 15:54	3023038	46DQ	MXXWK1AA
J1R981	SOIL	CS	7782-49-2	Se	-7.95E-02	U	UG/G	9.99E+00	9.99E+00	4.80E-01	0.2503	G	3.91E-01			1/23/2013 15:54	3023038	46DQ	MXXWK1AA
J1R982	SOIL	CS	7440-22-4	Ag	-1.56E-01	U	UG/G	9.90E+00	9.90E+00	1.10E-01	0.2526	G	9.13E-02			1/23/2013 15:59	3023038	46DQ	MXXWL1AA
J1R982	SOIL	CS	7440-38-2	As	1.12E+00	U	UG/G	9.90E+00	9.90E+00	5.50E-01	0.2526	G	4.55E-01			1/23/2013 15:59	3023038	46DQ	MXXWL1AA
J1R982	SOIL	CS	7440-39-3	Ba	8.56E+01		UG/G	1.98E+00	1.98E+00	9.70E-01	0.2526	G	7.99E-01			1/23/2013 15:59	3023038	46DQ	MXXWL1AA
J1R982	SOIL	CS	7440-41-7	Beryllium	1.90E-01		UG/G	9.90E-02	9.90E-02	9.90E-03	0.2526	G	8.11E-03			1/23/2013 15:59	3023038	46DQ	MXXWL1AA
J1R982	SOIL	CS	7440-43-9	Cadmium	1.08E-01	U	UG/G	1.98E+00	1.98E+00	3.00E-02	0.2526	G	2.50E-02			1/23/2013 15:59	3023038	46DQ	MXXWL1AA
J1R982	SOIL	CS	7440-47-3	Chromium	6.31E+00	U	UG/G	9.90E+00	9.90E+00	7.90E-02	0.2526	G	6.49E-02			1/23/2013 15:59	3023038	46DQ	MXXWL1AA
J1R982	SOIL	CS	7439-92-1	Lead	2.76E+00	U	UG/G	9.90E+00	9.90E+00	2.10E-01	0.2526	G	1.75E-01			1/23/2013 15:59	3023038	46DQ	MXXWL1AA
J1R982	SOIL	CS	7782-49-2	Se	-1.46E-01	U	UG/G	9.90E+00	9.90E+00	2.80E-01	0.2526	G	2.30E-01			1/23/2013 15:59	3023038	46DQ	MXXWL1AA
J1R983	SOIL	CS	7440-22-4	Ag	-1.79E-01	U	UG/G	9.92E+00	9.92E+00	9.90E-02	0.252	G	8.12E-02			1/23/2013 16:05	3023038	46DQ	MXXWM1AA
J1R983	SOIL	CS	7440-38-2	As	2.23E+00	U	UG/G	9.92E+00	9.92E+00	4.70E-01	0.252	G	3.85E-01			1/23/2013 16:05	3023038	46DQ	MXXWM1AA
J1R983	SOIL	CS	7440-39-3	Ba	5.93E+01		UG/G	1.98E+00	1.98E+00	2.50E-01	0.252	G	2.02E-01			1/23/2013 16:05	3023038	46DQ	MXXWM1AA
J1R983	SOIL	CS	7440-41-7	Beryllium	1.85E-01		UG/G	9.92E-02	9.92E-02	1.10E-02	0.252	G	9.28E-03			1/23/2013 16:05	3023038	46DQ	MXXWM1AA
J1R983	SOIL	CS	7440-43-9	Cadmium	1.24E-01	U	UG/G	1.98E+00	1.98E+00	1.80E-02	0.252	G	1.45E-02			1/23/2013 16:05	3023038	46DQ	MXXWM1AA
J1R983	SOIL	CS	7440-47-3	Chromium	8.02E+00	U	UG/G	9.92E+00	9.92E+00	5.60E-02	0.252	G	4.63E-02			1/23/2013 16:05	3023038	46DQ	MXXWM1AA
J1R983	SOIL	CS	7439-92-1	Lead	2.77E+00	U	UG/G	9.92E+00	9.92E+00	8.60E-02	0.252	G	7.06E-02			1/23/2013 16:05	3023038	46DQ	MXXWM1AA
J1R983	SOIL	CS	7782-49-2	Se	-6.71E-02	U	UG/G	9.92E+00	9.92E+00	4.90E-01	0.252	G	4.02E-01			1/23/2013 16:05	3023038	46DQ	MXXWM1AA
J1R984	SOIL	CS	7440-22-4	Ag	-1.81E-01	U	UG/G	1.00E+01	1.00E+01	8.10E-02	0.2498	G	6.64E-02			1/23/2013 16:24	3023038	46DQ	MXXWN1AA
J1R984	SOIL	CS	7440-38-2	As	1.50E+00	U	UG/G	1.00E+01	1.00E+01	6.20E-01	0.2498	G	5.12E-01			1/23/2013 16:24	3023038	46DQ	MXXWN1AA
J1R984	SOIL	CS	7440-39-3	Ba	5.50E+01		UG/G	2.00E+00	2.00E+00	7.70E-01	0.2498	G	6.32E-01			1/23/2013 16:24	3023038	46DQ	MXXWN1AA
J1R984	SOIL	CS	7440-41-7	Beryllium	1.97E-01		UG/G	1.00E-01	1.00E-01	4.40E-03	0.2498	G	3.62E-03			1/23/2013 16:24	3023038	46DQ	MXXWN1AA
J1R984	SOIL	CS	7440-43-9	Cadmium	1.44E-01	U	UG/G	2.00E+00	2.00E+00	1.10E-01	0.2498	G	8.89E-02			1/23/2013 16:24	3023038	46DQ	MXXWN1AA
J1R984	SOIL	CS	7440-47-3	Chromium	5.73E+00	U	UG/G	1.00E+01	1.00E+01	6.10E-03	0.2498	G	5.01E-03			1/23/2013 16:24	3023038	46DQ	MXXWN1AA
J1R984	SOIL	CS	7439-92-1	Lead	3.59E+00	U	UG/G	1.00E+01	1.00E+01	7.70E-02	0.2498	G	6.36E-02			1/23/2013 16:24	3023038	46DQ	MXXWN1AA
J1R984	SOIL	CS	7782-49-2	Se	-2.47E-02	U	UG/G	1.00E+01	1.00E+01	1.10E+00	0.2498	G	8.84E-01			1/23/2013 16:24	3023038	46DQ	MXXWN1AA
INTRA-LAB BLANK	SOIL	BLK	7440-22-4	Ag	5.97E-04	U	MG/L	5.00E-02	5.00E-02	2.50E-04	0.2502	L	2.07E-04			1/23/2013 15:21	3023038	46DQ	MXXXF1AA
INTRA-LAB BLANK	SOIL	BLK	7440-38-2	As	1.47E-03	U	MG/L	5.00E-02	5.00E-02	3.60E-04	0.2502	L	2.92E-04			1/23/2013 15:21	3023038	46DQ	MXXXF1AA
INTRA-LAB BLANK	SOIL	BLK	7440-39-3	Ba	4.27E-05	U	MG/L	1.00E-02	1.00E-02	2.20E-05	0.2502	L	1.78E-05			1/23/2013 15:21	3023038	46DQ	MXXXF1AA
INTRA-LAB BLANK	SOIL	BLK	7440-41-7	Beryllium	6.54E-05	U	MG/L	5.00E-04	5.00E-04	6.50E-05	0.2502	L	5.39E-05			1/23/2013 15:21	3023038	46DQ	MXXXF1AA
INTRA-LAB BLANK	SOIL	BLK	7440-43-9	Cadmium	4.11E-05	U	MG/L	1.00E-02	1.00E-02	1.50E-04	0.2502	L	1.27E-04			1/23/2013 15:21	3023038	46DQ	MXXXF1AA
INTRA-LAB BLANK	SOIL	BLK	7440-47-3	Chromium	-9.20E-05	U	MG/L	5.00E-02	5.00E-02	6.10E-04	0.2502	L	5.00E-04			1/23/2013 15:21	3023038	46DQ	MXXXF1AA
INTRA-LAB BLANK	SOIL	BLK	7439-92-1	Lead	-2.39E-04	U	MG/L	5.00E-02	5.00E-02	1.40E-03	0.2502	L	1.15E-03			1/23/2013 15:21	3023038	46DQ	MXXXF1AA
INTRA-LAB BLANK	SOIL	BLK	7782-49-2	Se	7.65E-04	U	MG/L	5.00E-02	5.00E-02	3.00E-04	0.2502	L	2.45E-04			1/23/2013 15:21	3023038	46DQ	MXXXF1AA
INTRA-LAB CHECK	SOIL	LCS	7440-22-4	Ag	8.85E-01		MG/L	5.00E-02	5.00E-02	5.60E-03	0.25	L	4.58E-03	0.88	1	1/23/2013 15:24	3023038	46DQ	MXXXF1AA
INTRA-LAB CHECK	SOIL	LCS	7440-38-2	As	8.94E-01		MG/L	5.00E-02	5.00E-02	3.00E-03	0.25	L	2.45E-03	0.89	1	1/23/2013 15:24	3023038	46DQ	MXXXF1AA
INTRA-LAB CHECK	SOIL	LCS	7440-39-3	Ba	9.34E-01		MG/L	1.00E-02	1.00E-02	1.10E-02	0.25	L	9.02E-03	0.93	1	1/23/2013 15:24	3023038	46DQ	MXXXF1AA
INTRA-LAB CHECK	SOIL	LCS	7440-41-7	Beryllium	8.88E-01		MG/L	5.00E-04	5.00E-04	5.40E-03	0.25	L	4.41E-03	0.89	1	1/23/2013 15:24	3023038	46DQ	MXXXF1AA
INTRA-LAB CHECK	SOIL	LCS	7440-43-9	Cadmium	8.58E-01		MG/L	1.00E-02	1.00E-02	1.90E-03	0.25	L	1.57E-03	0.86	1	1/23/2013 15:24	3023038	46DQ	MXXXF1AA
INTRA-LAB CHECK	SOIL	LCS	7440-47-3	Chromium	9.23E-01		MG/L	5.00E-02	5.00E-02	2.00E-03	0.25	L	1.65E-03	0.92	1	1/23/2013 15:24	3023038	46DQ	MXXXF1AA
INTRA-LAB CHECK	SOIL	LCS	7439-92-1	Lead	8.90E-01		MG/L	5.00E-02	5.00E-02	3.30E-03	0.25	L	2.69E-03	0.89	1	1/23/2013 15:24	3023038	46DQ	MXXXF1AA
INTRA-LAB CHECK	SOIL	LCS	7782-49-2	Se	8.24E-01		MG/L	5.00E-02	5.00E-02	4.50E-03	0.25	L	3.74E-03	0.82	1	1/23/2013 15:24	3023038	46DQ	MXXXF1AA
J1R980 DUP	SOIL	DUP	7440-22-4	Ag	-1.15E-01	U	UG/G	9.92E+00	9.92E+00	1.20E-01	0.252	G	9.84E-02			1/23/2013 15:49	3023038	46DQ	MXXWJ1A0
J1R980 DUP	SOIL	DUP	7440-38-2	As	1.61E+00	U	UG/G	9.92E+00	9.92E+00	6.10E-01	0.252	G	5.01E-01			1/23/2013 15:49	3023038	46DQ	MXXWJ1A0
J1R980 DUP	SOIL	DUP	7440-39-3	Ba	5.55E+01		UG/G	1.98E+00	1.98E+00	1.60E-01	0.252	G	1.29E-01			1/23/2013 15:49	3023038	46DQ	MXXWJ1A0
J1R980 DUP	SOIL	DUP	7440-41-7	Beryllium	1.95E-01		UG/G	9.92E-02	9.92E-02	8.60E-03	0.252	G	7.10E-03			1/23/2013 15:49	3023038	46DQ	MXXWJ1A0
J1R980 DUP	SOIL	DUP	7440-43-9	Cadmium	1.15E-01	U	UG/G	1.98E+00	1.98E+00	2.80E-02	0.252	G	2.28E-02			1/23/2013 15:49	3023038	46DQ	MXXWJ1A0
J1R980 DUP	SOIL	DUP	7440-47-3	Chromium	6.14E+00	U	UG/G	9.92E+00	9.92E+00	1.20E-01	0.252	G	9.92E-02			1/23/2013 15:49	3023038	46DQ	MXXWJ1A0
J1R980 DUP	SOIL	DUP	7439-92-1	Lead	2.78E+00	U	UG/G	9.92E+00	9.92E+00	1.70E-01	0.252	G	1.39E-01			1/23/2013 15:49	3023038	46DQ	MXXWJ1A0
J1R980 DUP	SOIL	DUP	7782-49-2	Se	-2.24E-01	U	UG/G	9.92E+00	9.92E+00	4.50E-01	0.252	G	3.72E-01			1/23/2013 15:49	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	MS	7440-22-4	Ag	1.76E+02		% REC	9.98E+00	9.98E+00	1.30E+00	0.2506	L	1.07E+00	0.88	200	1/23/2013 15:39	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	MS	7440-38-2	As	1.80E+02		% REC	9.98E+00	9.98E+00	8.10E-01	0.2506	L	6.63E-01	0.9	200	1/23/2013 15:39	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	MS	7440-39-3	Ba	1.81E+02		% REC	2.00E+00	2.00E+00	3.30E+00	0.2506	L	2.72E+00	0.91	200	1/23/2013 15:39	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	MS	7440-41-7	Beryllium	1.80E+02		% REC	9.98E-02	9.98E-02	1.50E+00	0.2506	L	1.25E+00	0.9	200	1/23/2013 15:39	3023038	46DQ	MXXWJ1A0

Client_id	Matrix	Result_	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_S	Reporting_Limits	Uncertainty_1s	Analyzed_s	Analyzt	Decision_level_lc	LCSRec	Adde	Analysis_date_time	Batch_nbr	Test_Meth	Lab_sample_id
J1R980	SOIL	MS	7440-43-9	Cadmium	1.72E+02		% REC	2.00E+00	2.00E+00	3.00E-01	0.2506	L	2.50E-01	0.86	200	1/23/2013 15:39	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	MS	7440-47-3	Chromium	1.82E+02		% REC	9.98E+00	9.98E+00	1.70E+00	0.2506	L	1.37E+00	0.91	200	1/23/2013 15:39	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	MS	7439-92-1	Lead	1.72E+02		% REC	9.98E+00	9.98E+00	3.90E-01	0.2506	L	3.24E-01	0.86	200	1/23/2013 15:39	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	MS	7782-49-2	Se	1.66E+02		% REC	9.98E+00	9.98E+00	5.70E-01	0.2506	L	4.69E-01	0.83	200	1/23/2013 15:39	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	MSD	7440-22-4	Ag	1.73E+02		% REC	9.88E+00	9.88E+00	1.60E-01	0.253	L	1.31E-01	0.88	198	1/23/2013 15:44	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	MSD	7440-38-2	As	1.77E+02		% REC	9.88E+00	9.88E+00	8.50E-01	0.253	L	6.99E-01	0.9	198	1/23/2013 15:44	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	MSD	7440-39-3	Ba	1.71E+02		% REC	1.98E+00	1.98E+00	1.40E+00	0.253	L	1.13E+00	0.86	198	1/23/2013 15:44	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	MSD	7440-41-7	Beryllium	1.77E+02		% REC	9.88E-02	9.88E-02	7.50E-01	0.253	L	6.18E-01	0.9	198	1/23/2013 15:44	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	MSD	7440-43-9	Cadmium	1.70E+02		% REC	1.98E+00	1.98E+00	4.60E-01	0.253	L	3.80E-01	0.86	198	1/23/2013 15:44	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	MSD	7440-47-3	Chromium	1.79E+02		% REC	9.88E+00	9.88E+00	1.70E+00	0.253	L	1.40E+00	0.91	198	1/23/2013 15:44	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	MSD	7439-92-1	Lead	1.71E+02		% REC	9.88E+00	9.88E+00	9.60E-01	0.253	L	7.90E-01	0.86	198	1/23/2013 15:44	3023038	46DQ	MXXWJ1A0
J1R980	SOIL	MSD	7782-49-2	Se	1.63E+02		% REC	9.88E+00	9.88E+00	8.20E-01	0.253	L	6.71E-01	0.83	198	1/23/2013 15:44	3023038	46DQ	MXXWJ1A0

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Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s):	3021064	Lab Sample Numbers or SDG:	J01675

Method/Test/Parameter: Cr+6 ☐ RL-WC-003(Aqueous) ☒ RL-WC-004(Solid)

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 greater than 0.97?	✓			✓
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within 10% of expected?	✓			✓
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 10% of expected?	✓			✓
2. CCB analyzed at required frequency and all results ≤ reporting limit?	✓			✓
C. Sample Analysis 1. Were any samples with concentrations above the linear range diluted and reanalyzed?			✓	✓
2. Were all sample holding times met?	✓			✓
D. QC Samples 1. All results for the preparation blank below limits?	✓			✓
2. LCS percent recovery within 85-115%	✓			✓
3. $PbCrO_4$ percent recovery within 75-125%?	✓			✓
4. Sample and Duplicate within 20% (aqueous) or 35% (solid) RPD?	✓			✓
5. MS or MS/MSD recoveries within 85-115% (aqueous) or 75-125% (solid)?	✓			✓
6. On MS failure, PDMS within 85-115%?			✓	✓
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 or list NCM number:

Analyst H. Rahari Date 1/22/13 2nd Review [signature] Date 1/22/13

CG-231 Rev 1, 5/12

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s):	3023040	Lab Sample Numbers or SDG:	J01675

Method/Test/Parameter: Cr+6 ☐ RL-WC-003(Aqueous) ☒ RL-WC-004(Solid)

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level Review (✓)
A. Initial Calibration 1. Performed at required frequency with required number of levels?	✓			X
2. Correlation coefficient greater than 0.97?	✓			X
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within 10% of expected?	✓			X
4. Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters ≤ reporting limit?	✓			X
B. Continuing Calibration 1. CCV analyzed at required frequency and all parameters within 10% of expected?	✓			X
2. CCB analyzed at required frequency and all results ≤ reporting limit?	✓			X
C. Sample Analysis 1. Were any samples with concentrations above the linear range diluted and reanalyzed?			✓	X
2. Were all sample holding times met?	✓			X
D. QC Samples 1. All results for the preparation blank below limits?	✓			X
2. LCS percent recovery within 85-115%	✓			X
3. PbCrO4 percent recovery within 75-125%?	✓			X
4. Sample and Duplicate within 20% (aqueous) or 35% (solid) RPD?	✓			X
5. MS or MS/MSD recoveries within 85-115% (aqueous) or 75-125% (solid)?	✓			X
6. On MS failure, PDMS within 85-115%?			✓	X
E. Other 1. Are all nonconformances included and noted?			✓	X
2. Is the correct date and time of analysis shown?	✓			X
3. Did the analyst sign and date the front page of the analytical run?	✓			X
4. Correct methodology used?	✓			X
5. Transcriptions checked?	✓			X
6. Calculations checked at minimum frequency?	✓			X
7. Units checked?	✓			X

Comments on any "No" response or list NCM number:

Analyst [signature] Date 1/23/13 2nd Review [signature] Date 1/24/13

Reviewed TC VS CVR TM 1/24/13

CG-231 Rev. 5/12

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

CHEMISTRY, First/Second Level Review

1/22/2013 9:30:43 AM

Lot No., Due Date: J3A210442; 01/22/2013
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 3021065; M6010_S 6010A
SDG, Matrix: J01675; SOIL

	Yes	No	N/A	2nd
1.0 Initial Calibration				
1.1 Performed at required frequency with required number of levels?	✓			✓
1.2 Correlation coefficient within QC limits?	✓			✓
1.3 Initial calibration verification (ICV) analyzed immediately after calibr. and results within QC limits of +/- 10% at 0.75 ppm?	✓			✓
1.4 ICB analyzed immediately after ICV and concentration of all parameters +/- report limit from zero? RL per RadCalc.	✓			✓
2.0 Continuing Calibration				
2.1 CCV analyzed at required frequency and all parameters within QC limits or +/- 10% at 0.7500 ppm?	✓			✓
2.2 CCB analyzed at required frequency and all results +/- reporting limit from zero?	✓			✓
3.0 Sample Analysis				
3.1 Were any samples with concentration above the linear range diluted and reanalyzed?			✓	✓
3.2 Were all sample holding times met?	✓			✓
4.0 QC Samples				
4.1 All results for the preparation blank < reporting limits?	✓			✓
4.2 MS or MS/MSD recoveries within 20% at 1 ppm and within 20% RPD (for MSD)?	✓			✓
4.3 LCS precent recovery within 20% at 1 ppm and 20% RPD (for LCSD)?	✓			✓
4.4 Analytical spikes within QC limits where applicable?	✓			✓
4.5 ICP only: One serial dilution performed and within 10% of parent per SDG?	✓			✓
4.6 ICP only: RLV run per batch and within 20% of current values?	✓			✓
4.7 ICP only: ICSA,ICSAB analyzed at the required frequencies and within 20% of values per dilution record?	✓			✓
5.0 Other				
5.1 Are all nonconformances included and noted?			✓	✓
5.2 Is the correct date and time of analysis shown?	✓			✓
5.3 Did the analyst sign and date the digestion log for the analytical run?	✓			✓
5.4 Correct methodology used?	✓			✓
5.5 Transcriptions checked?	✓			✓
5.6 Calculations checked at minimum frequency?	✓			✓
5.7 Units checked?	✓			✓
5.8 Verified that appropriate data transferred to ReportDB?	✓			✓

6.0 Comments on any 'No' response:

First Level _____ **Date** 1/22/13 **Second** _____ **Date** 1/22/13

TestAmerica Richland
QAS_RADCALCv4.8.58

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

CHEMISTRY, First/Second Level Review

1/23/2013 5:36:18 PM

Lot No., Due Date: J3A230411; 01/24/2013
Client, Site: 127642;
QC Batch No., Method Test: 3023038; M6010_S 6010A
SDG, Matrix: J01615 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,; SOIL

Item	Question	Yes	No	N/A	2nd
1.0 Initial Calibration					
1.1	Performed at required frequency with required number of levels?	✓			✓
1.2	Correlation coefficient within QC limits?	✓			✓
1.3	Initial calibration verification (ICV) analyzed immediately after calibr. and results within QC limits of +/- 10% at 0.75 ppm?	✓			✓
1.4	ICB analyzed immediately after ICV and concentration of all parameters +/- report limit from zero? RL per RadCalc.	✓			✓
2.0 Continuing Calibration					
2.1	CCV analyzed at required frequency and all parameters within QC limits or +/- 10% at 0.7500 ppm?	✓			✓
2.2	CCB analyzed at required frequency and all results +/- reporting limit from zero?	✓			✓
3.0 Sample Analysis					
3.1	Were any samples with concentration above the linear range diluted and reanalyzed?			✓	✓
3.2	Were all sample holding times met?	✓			✓
4.0 QC Samples					
4.1	All results for the preparation blank < reporting limits?	✓			✓
4.2	MS or MS/MSD recoveries within 20% at 1 ppm and within 20% RPD (for MSD)?	✓			✓
4.3	LCS precent recovery within 20% at 1 ppm and 20% RPD (for LCSD)?	✓			✓
4.4	Analytical spikes within QC limits where applicable?	✓			✓
4.5	ICP only: One serial dilution performed and within 10% of parent per SDG?	✓			✓
4.6	ICP only: RLV run per batch and within 20% of current values?	✓			✓
4.7	ICP only: ICSA,ICSAB analyzed at the required frequencies and within 20% of values per dilution record?	✓			✓
5.0 Other					
5.1	Are all nonconformances included and noted?			✓	✓
5.2	Is the correct date and time of analysis shown?	✓			✓
5.3	Did the analyst sign and date the digestion log for the analytical run?	✓			✓
5.4	Correct methodology used?	✓			✓
5.5	Transcriptions checked?	✓			✓
5.6	Calculations checked at minimum frequency?	✓			✓
5.7	Units checked?	✓			✓
5.8	Verified that appropriate data transferred to ReportDB?	✓			✓

6.0 Comments on any 'No' response:

First Level [signature] Date 01/23/13 Second [signature] Date 1/23/13

TestAmerica Richland
QAS_RADCALCv4.8.58

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-074-459	Page 1 of 3
Collector M Riddell	**Company Contact** Joan Kessner	**Telephone No.** 509-375-4688	**Project Coordinator** KESSNER, JH	**Price Code** 8L
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	**Sampling Location** 100-D-100 In-Situ Potential ACL 18' (@ D-56:2)		**SAF No.** RC-074	**Data Turnaround** 1/21/13 21 Days 24 Hrs
Ice Chest No. N/A	**Field Logbook No.** EL-1607-15	**COA** 0D10032600	**Method of Shipment** Hand Deliver	
Shipped To TestAmerica Incorporated, Richland	**Offsite Property No.** N/A		**Bill of Lading/Air Bill No.** N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

J3A210442

J01675

Due 1-22-13

J3A210442

Preservation				Cool 4C	Cool 4C								
Type of Container				G/P	G/P								
No. of Container(s)				1	1								
Volume				60125mL	125mL								
				See item (1) in Special Instructions.	Chromium Hex - 7196 - Quick Turn {Hexavalent Chromium}								
Sample No.	Matrix *	Sample Date	Sample Time										
J1RC10 MXXD7	SOIL	1/21/13	1348	x	x								
J1RC11 MXXD8	SOIL		1351	x	x								
J1RC12 MXXD9	SOIL		1354	x	x								
J1RC13 MXXEA	SOIL		1405	x	x								
J1RC14 MXXEC	SOIL		1412	x	x								

CHAIN OF POSSESSION		Sign/Print Names	
Relinquished By/Removed From: Mike Riddell [signature]	Date/Time 15:05 1-21-13	Received By/Stored In: WCH [signature] mstankovich	Date/Time 1505 1/21/13
Relinquished By/Removed From: [signature] mstankovich	Date/Time 1/21/13 1605	Received By/Stored In: [signature]	Date/Time 1-21-13 1605
Relinquished By/Removed From: [signature] WCH	Date/Time 1620 1-21-13	Received By/Stored In: J.Bock J Bock TALK	Date/Time 1-21-13 1620
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}

REVIEWED BY AJ DATE 1-21-13

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-074-459	Page 2 of 3

Collector M Riddell	**Company Contact** Joan Kessner **Telephone No.** 509-375-4688	**Project Coordinator** KESSNER, JH	**Price Code** 8L **Data Turnaround** ~~21 Days~~ 24 Hrs 1/21/13
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	**Sampling Location** 100-D-100 In-Situ Potential ACL 18' (@ D-56:2)	**SAF No.** RC-074	
Ice Chest No. N/A	**Field Logbook No.** EL-1607-15 **COA** 0D10032600	**Method of Shipment** Hand Deliver	
Shipped To TestAmerica Incorporated, Richland	**Offsite Property No.** N/A	**Bill of Lading/Air Bill No.** N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

J3A210442

J01675
Due 1-22-13

Preservation				Cool 4C	Cool 4C								
Type of Container				G/P	G/P								
No. of Container(s)				1	1								
Volume				60125mL	125mL								
SAMPLE ANALYSIS				See item (1) in Special Instructions.	Chromium Hex - 7196 - Quick Turn {Hexavalent Chromium}								
Sample No.	Matrix *	Sample Date	Sample Time										
J1RC15 mXXED	SOIL	1/21/13	1416	x	x								
J1RC16 mXXEE	SOIL		1419	x	x								
J1RC17 mXXEF	SOIL		1422	x	x								
J1RC18 mXXEG	SOIL		1428	x	x								
J1RC19 mXXEH	SOIL		1425	x	x								

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From: Mike Riddell	Date/Time: 1-21-13 1505	Received By/Stored In: WCH MTStankovich	Date/Time: 1505 1/21/13
Relinquished By/Removed From: WCH mstankovich	Date/Time: 1/21/13 1605	Received By/Stored In: A-Freier A. Freier	Date/Time: 1605 1-21-13
Relinquished By/Removed From: WCH A-Freier A. Freier	Date/Time: 1620 1-21-13	Received By/Stored In: J. Bock J. Bock TALR	Date/Time: 1-21-13 1620
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}

REVIEWED BY CMB DATE 1-21-13

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

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

WCH-EE-011

Washington Closure Hanford — CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collector M Riddell	**Company Contact** Joan Kessner	**Telephone No.** 509-375-4688	**Project Coordinator** KESSNER, JH
Price Code 8L	**Data Turnaround** ~~21 Days~~ 24 Hrs 1/21/13		
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	**Sampling Location** 100-D-100 In-Situ Potential ACL 18' (@ D-56:2)		**SAF No.** RC-074
Ice Chest No. N/A	**Field Logbook No.** EL-1607-15	**COA** 0D10032600	**Method of Shipment** Hand Deliver
Shipped To TestAmerica Incorporated, Richland	**Offsite Property No.** N/A		**Bill of Lading/Air Bill No.** N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

J3A210442

J01605
Due 1-22-13

SAMPLE ANALYSIS

Preservation	Cool 4C	Cool 4C											
Type of Container	G/P	G/P											
No. of Container(s)	1	1											
Volume	60125mL	125mL											
	See item (1) in Special Instructions.	Chromium Hex - 7196 - Quick Turn {Hexavalent Chromium}											

Sample No.	Matrix *	Sample Date	Sample Time										
J1RC20 MXXEJ	SOIL	1/21/13	1432	X	X								
J1RC21 MXXEK	SOIL		1327	X	X								
J1RC22 MXXEL	SOIL		1330	X	X								
J1RC23 MXXEM	SOIL		1336	X	X								
J1RC24 MXXEN	SOIL		1339	X	X								

CHAIN OF POSSESSION

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Mike Riddell	1-21-13 1505	WCH MT Stankovich	1505 1/21/13
MTD MT Stankovich	1605 1/21/13	A. Freier	1605 1-21-13
WCH A. Freier	1620 1-21-13	J. Bell TAML	1-21-13 1620

SPECIAL INSTRUCTIONS

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}

REVIEWED BY CMB DATE 1-21-13

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

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

WCH-EE-011

TestAmerica Laboratories, Inc.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 1-21-13/1620 Container GM Screen Result: (Airlock) .6 Initials [ ]
Sample GM Screen Result (Sample Receiving) .6 Initials [ ]

Client: WCH SDG #: 301615 NA [ ] SAF #: RC-074 NA [ ]

Lot Number: 13A2104442

Chain of Custody # RC-074-459

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

Samples received inside shipping container/cooler/box Yes [ ] 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 [ ]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [ ]
3. Cooler temperature: 13.5 °C on Ice NA [ ]
4. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [ ] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 15
7. Containers received: 30 x 125 mL

8. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
9. Samples have:
   ____tape
   ____custody seals
   ____hazard labels
   ____appropriate sample labels
10. Matrix:
    ____A (FLT, Wipe, Solid, Soil)
    ____S (Air, Niosh 7400)
    ____I (Water)
    ____T (Biological, Ni-63)
11. Samples:
    ____are in good condition
    ____are broken
    ____Other
    ____are leaking
    ____have air bubbles (Only for samples requiring no head space)
12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA [ ]
    (If acidification is necessary, then document sample ID, initial pH, amount of HNO_3 added and pH after addition on table overleaf)
    RPL ID # of preservative used : N/A
13. Were any anomalies identified in sample receipt? Yes [ ] No [ ]
14. Description of anomalies (include sample numbers): NA

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See over for additional information.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

16. Additional Information: N/A

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

Sample Custodian: Date: 1-21-13 1/22/13

Client Informed on by Person contacted

[ ] No action necessary; process as is

Project Manager Date 1/22/13

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

1-21-13

1-21-13

JJ A210442 1/22/13

LS-023, Rev. 15, 07/11

See over for additional information.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-074-436	Page 1 of 1
Collector M Riddell	**Company Contact** Joan Kessner	**Telephone No.** 509-375-4688	**Project Coordinator** KESSNER, JH	**Price Code** 8L
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	**Sampling Location** 100-D-100 BCL SPA		**SAF No.** RC-074	**Data Turnaround** ~~21 Days~~ 24
Ice Chest No. N/A	**Field Logbook No.** EL-1607-15	**COA** 0D10032000	**Method of Shipment** Hand Deliver	
Shipped To TestAmerica Incorporated, Richland	**Offsite Property No.** N/A		**Bill of Lading/Air Bill No.** N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

J3A230411

J01675
Due 1-24-13

J3A230411

Preservation	Cool 4C	Cool 4C										
Type of Container	G/P	G/P										
No. of Container(s)	1	1										
Volume	125mL	125mL										
	See item (1) in Special Instructions.	Chromium Hex - 7196 - Quick Turn {Hexavalent Chromium}										

Sample No.	Matrix *	Sample Date	Sample Time									
J1R980 mXXWJ	SOIL	1/22/13	1427	X	X							
J1R981 mXXWK	SOIL		1430	X	X							
J1R982 mXXWL	SOIL		1433	X	X							
J1R983 mXXWM	SOIL		1436	X	X							
J1R984 mXXWN	SOIL		1441	X	X							

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From	Date/Time 1-22-13 1520	Received By/Stored In WCH	Date/Time 1520
Relinquished By/Removed From M T Stankoock	Date/Time 1/22/13 1640	Received By/Stored In C Bingham	Date/Time 1640 1-22-13
Relinquished By/Removed From C Bingham	Date/Time 1-23-13 0832	Received By/Stored In A. Freier	Date/Time 0832 1-23-13
Relinquished By/Removed From WCH A. Freier	Date/Time 0845 1-23-13	Received By/Stored In J. Bock	Date/Time THUR 1-23-13 0845
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}

REVIEWED BY DATE 1/23/13

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

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

WCH-EE-011

TestAmerica Laboratories, Inc.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 1-23-13 | 0945 Container GM Screen Result: (Airlock) .16 Initials [ ]
Sample GM Screen Result (Sample Receiving) .4 Initials [ ]

Client: WCH SDG #: ~~RC-074~~ 1-23-13 NA [ ] SAF #: RC-074 NA [ ]
301675

Lot Number: 320A230411

Chain of Custody # RC-074-4136

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

Samples received inside shipping container/cooler/box Yes [ ] 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 [ ]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [ ]
3. Cooler temperature: 1.9 °C on Ice NA [ ]
4. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [ ] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 5
7. Containers received: 10 x 125 mL
8. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
9. Samples have:
   ____tape ____hazard labels
   ____custody seals ____appropriate sample labels
10. Matrix:
    ____A (FLT, Wipe, Solid, Soil) ____I (Water)
    ____S (Air, Niosh 7400) ____T (Biological, Ni-63)
11. Samples:
    ____are in good condition ____are leaking
    ____are broken ____have air bubbles (Only for samples requiring no head space)
    ____Other
12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA [ ]
    (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 : 10 A
13. Were any anomalies identified in sample receipt? Yes [ ] No [ ]
14. Description of anomalies (include sample numbers): NA [ ]

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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: N/A

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

Sample Custodian: Judi Bach Date: 1-23-13

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is

Project Manager _____ Date 1/23/13

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

JB 1-23-13

JB 1-23-13

JB A2-30411

RW 1/23/13

1/21/2013 6:33:15 PM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Washington Closure Hanford LLC

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

AnalyDueDate: 01/22/2013

5I CLIENT: HANFORD

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

Batch: 3021064 **SOIL** **mg/kg** **PM, Quote: RW2, 88144**
SEQ Batch, Test: None

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

1 MXXD7-1-AC

J3A210442-1-SAMP

01/21/2013 13:48 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

2 MXXD8-1-AC

J3A210442-2-SAMP

01/21/2013 13:51 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

3 MXXD9-1-AC

J3A210442-3-SAMP

01/21/2013 13:54 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

4 MXXEA-1-AC

J3A210442-4-SAMP

01/21/2013 14:05 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

5 MXXEC-1-AC

J3A210442-5-SAMP

01/21/2013 14:12 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

6 MXXED-1-AC

J3A210442-6-SAMP

01/21/2013 14:16 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

7 MXXEE-1-AC

J3A210442-7-SAMP

01/21/2013 14:19 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

1/21/2013 6:33:16 PM

Sample Preparation/Analysis

Balance Id:

127642, Washington Closure Hanford LLC
Washington Closure Hanford LLC

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

Pipet #:

AnalyDueDate: 01/22/2013

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 3021064 **SOIL** **mg/kg** **PM, Quote: RW2, 88144**

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech:

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

8 MXXEF-1-AC

J3A210442-8-SAMP

01/21/2013 14:22 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

9 MXXEG-1-AC

J3A210442-9-SAMP

01/21/2013 14:28 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

10 MXXEH-1-AC

J3A210442-10-SAMP

01/21/2013 14:25 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

11 MXXEJ-1-AC

J3A210442-11-SAMP

01/21/2013 14:32 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

12 MXXEK-1-AC

J3A210442-12-SAMP

01/21/2013 13:27 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

13 MXXEL-1-AC

J3A210442-13-SAMP

01/21/2013 13:30 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

14 MXXEM-1-AC

J3A210442-14-SAMP

01/21/2013 13:36 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

1/21/2013 6:33:16 PM

Sample Preparation/Analysis

Balance Id:

127642, Washington Closure Hanford LLC
Washington Closure Hanford LLC

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

Pipet #:

AnalyDueDate: 01/22/2013

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 3021064 **SOIL** mg/kg

PM, Quote: RW2, 88144

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

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

15 MXXEN-1-AC

J3A210442-15-SAMP

01/21/2013 13:39 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

16 MXXD7-1-AL-S

J3A210442-1-MS

01/21/2013 13:48 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

17 MXXD7-1-AM-X

J3A210442-1-DUP

01/21/2013 13:48 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

18 MXXEP-1-AA-B

J3A210000-64-BLK

01/21/2013 18:33 pd AmtRec: #Containers: 1 Scr: Alpha: Beta:

19 MXXEP-1-AC-C

J3A210000-64-LCS

01/21/2013 18:33 pd AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments:

All Clients for Batch:
127642, Washington Closure Hanford LLC Washington Closure Hanford LLC, RW2, 88144

MXXD71AC-SAMP Constituent List:

1/21/2013 6:33:16 PM

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: 01/22/2013

Batch: 3021064 **mg/kg**
SEQ Batch, Test: None

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

MXXD71AL-MS:

MXXEP1AA-BLK:

MXXEP1AC-LCS:

MXXD71AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MXXD71AL-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MXXEP1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MXXEP1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

1/23/2013 10:42:32 AM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC , Washington Closure Hanford LLC

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

AnalyDueDate: 01/24/2013

Batch: 3023040 **SOIL** **mg/kg** **PM, Quote: RW2, 88144**

SEQ Batch, Test: None All Tests: , 46DQ, 3023040 DWEA,

Balance Id:

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

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

1 MXXWJ-1-AC

J3A230411-1-SAMP

01/22/2013 14:27 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

2 MXXWJ-1-CE-S

J3A230411-1-MS

01/22/2013 14:27 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

3 MXXWJ-1-CF-X

J3A230411-1-DUP

01/22/2013 14:27 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

4 MXXWK-1-AC

J3A230411-2-SAMP

01/22/2013 14:30 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

5 MXXWL-1-AC

J3A230411-3-SAMP

01/22/2013 14:33 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

6 MXXWM-1-AC

J3A230411-4-SAMP

01/22/2013 14:36 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

7 MXXWN-1-AC

J3A230411-5-SAMP

01/22/2013 14:41 AmtRec: 2X125MLP #Containers: 2 Scr: Alpha: Beta:

1/23/2013 10:42:33 AM

Sample Preparation/Analysis

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

Balance Id:

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

AnalyDueDate: 01/24/2013

Batch: 3023040 **mg/kg**
SEQ Batch, Test: None

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MXXXH-1-AA-B													
J3A230000-40-BLK													
01/23/2013 10:42 pd			AmtRec:	#Containers: 1						Scr:	Alpha:		Beta:
9 MXXXH-1-AC-C													
J3A230000-40-LCS													
01/23/2013 10:42 pd			AmtRec:	#Containers: 1						Scr:	Alpha:		Beta:

Comments:

All Clients for Batch:
127642, Washington Closure Hanford LLC Washington Closure Hanford LLC, RW2, 88144

MXXWJ1AC-SAMP Constituent List:

MXXWJ1CE-MS Constituent List:

MXXXH1AA-BLK:

MXXXH1AC-LCS:

MXXWJ1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MXXWJ1CE-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MXXXH1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MXXXH1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B