

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 3/20/12
INITIAL/DATE

COMMENTS:

SDG J01444

SAF RC-074

Rad only

Chem only

Rad & Chem

Complete

Partial

Waste Site: 100-D-30 Excavation Layback-BCL SPA and
100-D-30 Exc – 10-20' bgs layback – non-EZ
ACL SPA

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 60 Pages

Report No.: 50983

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.
J01444	RC-074	J1N4L1	J2C120457-1	MRDFQ1AC	9MRDFQ10	2073041
		J1N4L2	J2C120457-2	MRDFR1AC	9MRDFR10	2073041
		J1N4L3	J2C120457-3	MRDF21AC	9MRDF210	2073041
		J1NLM5	J2C140460-8	MREX71AC	9MREX710	2075031
		J1NLM6	J2C140460-9	MREX81AC	9MREX810	2075031
		J1NLN0	J2C130478-1	MRD5D1AC	9MRD5D10	2074041
		J1NLN1	J2C130478-2	MRD5E1AC	9MRD5E10	2074041
		J1NLN2	J2C130478-3	MRD5F1AC	9MRD5F10	2074041
		J1NLN3	J2C130478-4	MRD5G1AA	9MRD5G10	2074041
		J1NLN4	J2C130478-5	MRD5H1AC	9MRD5H10	2074041
		J1NMC0	J2C140460-1	MREX01AC	9MREX010	2075031
		J1NMC1	J2C140460-2	MREX11AC	9MREX110	2075031
		J1NMC2	J2C140460-3	MREX21AC	9MREX210	2075031
		J1NMC3	J2C140460-4	MREX31AC	9MREX310	2075031
		J1NMC4	J2C140460-5	MREX41AC	9MREX410	2075031
		J1NMC5	J2C140460-6	MREX51AC	9MREX510	2075031
		J1NMC6	J2C140460-7	MREX61AC	9MREX610	2075031

Certificate of Analysis

TestAmerica Laboratories, Inc.

Washington Closure Hanford
2620 Fermi Avenue
Richland, WA 99354

March 19, 2012

Attention: Joan Kessner

SAF Number	:	RC-074
Date SDG Closed	:	March 16, 2012
Number of Samples	:	Seventeen (17)
Sample Type	:	Soil
SDG Number	:	J01444
Data Deliverable	:	Quick Turn Metals / Summary

CASE NARRATIVE

I. Introduction

Between March 12, 2012 and March 14, 2012, seventeen 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;

<u>WCH ID#</u>	<u>TARL ID#</u>	<u>MATRIX</u>	<u>DATE OF RECEIPT</u>
J1N4L1	MRDFQ	SOIL	3/12/12
J1N4L2	MRDFR	SOIL	3/12/12
J1N4L3	MRDF2	SOIL	3/12/12
J1NLN0	MRD5D	SOIL	3/13/12
J1NLN1	MRD5E	SOIL	3/13/12
J1NLN2	MRD5F	SOIL	3/13/12
J1NLN3	MRD5G	SOIL	3/13/12
J1NLN4	MRD5H	SOIL	3/13/12
J1NMC0	MREX0	SOIL	3/14/12
J1NMC1	MREX1	SOIL	3/14/12
J1NMC2	MREX2	SOIL	3/14/12
J1NMC3	MREX3	SOIL	3/14/12
J1NMC4	MREX4	SOIL	3/14/12
J1NMC5	MREX5	SOIL	3/14/12
J1NMC6	MREX6	SOIL	3/14/12
J1NLM5	MREX7	SOIL	3/14/12
J1NLM6	MREX8	SOIL	3/14/12

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 J01444 includes a minimum of one Laboratory Control Samples (LCS) and one method (reagent) blank. A duplicate sample, matrix spike sample and a matrix spike duplicate sample will be analyzed per 20 samples or per month, whichever is more frequent. 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

Three batches were analyzed in March for the samples with the standard metal request list.

Batch 2072168:

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

Batch 2073129:

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

Batch 2074151:

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

Three batches were analyzed in March.

Batch 2073041:

The LCS, batch blank, samples, sample duplicate (J1N4L1) and sample matrix spike (J1N4L1) results are within contractual requirements.

Washington Closure Hanford
March 19, 2012

Batch 2074041:

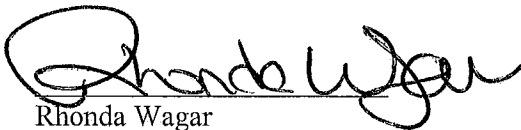
The LCS, batch blank, samples, sample duplicate (J1NLN0) and sample matrix spike (J1NLN0) results are within contractual requirements.

Batch 2075031:

The LCS, batch blank, samples, sample duplicate (J1NMC0) and sample matrix spike (J1NMC0) results are within contractual requirements.

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

Reviewed and approved:



Rhonda Wagar
Project Manager

Drinking Water Method Cross References

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

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

Uncertainty Estimation

TestAmerica Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, $R = \text{constants} * f(x,y,z,...)$. 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/\sqrt{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) <i>u_c - Combined Uncertainty.</i>	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, <i>u_c the combined uncertainty</i> . 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: 19-Mar-12

TestAmerica TARL

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

Report No. : 50983

SDG No: J01444

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
2073041	7196_CR6								
	J1N4L1								
	MRDFQ1AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	MRDFQ1CH	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	0.0
	J1N4L2								
	MRDFR1AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1N4L3								
	MRDF21AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
2074041	7196_CR6								
	J1NLN0								
	MRD5D1AC	HEXCHROME	1.30E+01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	MRD5D1C0	HEXCHROME	1.18E+01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	9.4
	J1NLN1								
	MRD5E1AC	HEXCHROME	8.44E+01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1NLN2								
	MRD5F1AC	HEXCHROME	1.15E+01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1NLN3								
	MRD5G1AA	HEXCHROME	5.58E+01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1NLN4								
	MRD5H1AC	HEXCHROME	5.92E+01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
2075031	7196_CR6								
	J1NLM5								
	MREX71AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1NLM6								
	MREX81AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1NMC0								
	MREX01AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	MREX01CE	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	0.0
	J1NMC1								
	MREX11AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1NMC2								
	MREX21AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1NMC3								
	MREX31AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1NMC4								
	MREX41AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1NMC5								
	MREX51AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1NMC6								

TestAmerica
rptSTLRchSaSum
mary2 V5.2.18.2
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: 19-Mar-12

TestAmerica TARL

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

Report No. : 50983

SDG No: J01444

Batch	Client Id Work Order	Parameter	Result +/- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
2075031	7196_CR6								
	J1NMC6								
	MREX61AC	HEXCHROME	1.55E-01 +/- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	No. of Results: 20								

TestAmerica
rptSTLRchSaSum
mary2 V5.2.18.2
A2002

RPD - Relative Percent Difference.

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

QC Results Summary

Date: 19-Mar-12

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 50983

SDG No.: J01444

Batch	Work Order	Parameter	Result +/- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDL
7196_CR6									
2073041	MATRIX SPIKE, J1N4L1								
	MRDFQ1CG	HEXCHROME	8.82E+00 +/- 0.0E+00		mg/kg	N/A	86%	-0.1	1.55E-01
2073041	LCS,								
	MRDKW1AC	HEXCHROME	1.88E+01 +/- 0.0E+00		mg/kg	N/A	94%	-0.1	1.55E-01
2073041	BLANK QC,								
	MRDKW1AA	HEXCHROME	1.55E-01 +/- 0.0E+00	U	mg/kg	N/A			1.55E-01
7196_CR6									
2074041	MATRIX SPIKE, J1NLN0								
	MRD5D1CX	HEXCHROME	9.27E+00 +/- 0.0E+00		mg/kg	N/A	91%	-0.1	1.55E-01
2074041	LCS,								
	MREEE1AC	HEXCHROME	1.90E+01 +/- 0.0E+00		mg/kg	N/A	95%	0.0	1.55E-01
2074041	BLANK QC,								
	MREEE1AA	HEXCHROME	1.55E-01 +/- 0.0E+00	U	mg/kg	N/A			1.55E-01
7196_CR6									
2075031	MATRIX SPIKE, J1NMC0								
	MREX01CD	HEXCHROME	8.17E+00 +/- 0.0E+00		mg/kg	N/A	79%	-0.2	1.55E-01
2075031	LCS,								
	MRE5Q1AC	HEXCHROME	1.85E+01 +/- 0.0E+00		mg/kg	N/A	92%	-0.1	1.55E-01
2075031	BLANK QC,								
	MRE5Q1AA	HEXCHROME	1.55E-01 +/- 0.0E+00	U	mg/kg	N/A			1.55E-01

No. of Results: 9

TestAmerica Bias - (Result/Expected)-1 as defined by ANSI N13.30.
 rptSTLRchQcSummary V5.2.18.2 U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or A2002 not identified by gamma scan software.

FORM I

Date: 19-Mar-12

SAMPLE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: J2C120457-1
 Client Sample ID: J1N4L1

SDG: J01444
 Report No.: 50983
 COC No.: RC-074-377

Collection Date: 3/12/2012 1:05:00 PM
 Received Date: 3/12/2012 3:25:00 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: 2073041	7196_CR6											
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01 mg/kg		N/A	1.	3/12/12 05:00 p		2.5038	
							1.55E-01	N/A			g	

Work Order: MRDFQ1AC Report DB ID: 9MRDFQ10

No. of Results: 1 Comments:

FORM I
SAMPLE RESULTS

Date: 19-Mar-12

Lab Name: TestAmerica
 Lot-Sample No.: J2C120457-2
 Client Sample ID: J1N4L2

SDG: J01444
 Report No.: 50983
 COC No.: RC-074-377

Collection Date: 3/12/2012 12:55:00 PM
 Received Date: 3/12/2012 3:25:00 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: 2073041	7196_CR6											
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01 mg/kg		N/A	1.	3/12/12 05:00 p		2.5009	
							1.55E-01	N/A			9	

Work Order: MRDFR1AC Report DB ID: 9MRDFR10

No. of Results: 1 Comments:

TestAmerica MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchSample 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.
 V5.2.18.2 A2002

FORM I

Date: 19-Mar-12

SAMPLE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: J2C120457-3
 Client Sample ID: J1N4L3
 SDG: J01444
 Report No.: 50983
 COC No.: RC-074-377
 Collection Date: 3/12/2012 12:45:00 PM
 Received Date: 3/12/2012 3:25:00 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: 2073041	7196_CR6											
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01 mg/kg		N/A	1.	3/12/12 05:00 p		2.5089	
							1.55E-01	N/A			g	

* Batch: 2073041 7196_CR6 Work Order: MRDF21AC Report DB ID: 9MRDF210

No. of Results: 1 Comments:

TestAmerica MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchSample 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.
 V5.2.18.2 A2002

FORM I

Date: 19-Mar-12

SAMPLE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: J2C140460-8
 Client Sample ID: J1NLM5
 SDG: J01444
 Report No.: 50983
 COC No.: RC-074-380
 Collection Date: 3/14/2012 12:50:00 PM
 Received Date: 3/14/2012 4:50:00 PM
 Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Error (2 s)	Count	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: 2075031	7196_CR6												
Work Order: MREX71AC	Report DB ID: 9MREX710												
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	3/14/12 07:00 p			2.5092	
							1.55E-01	N/A				g	

No. of Results: 1 Comments:

TestAmerica MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchSample 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.
 V5.2.18.2 A2002

FORM I

Date: 19-Mar-12

SAMPLE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: J2C140460-9
 Client Sample ID: J1NLM6
 SDG: J01444
 Report No.: 50983
 COC No.: RC-074-380
 Collection Date: 3/14/2012 12:55:00 PM
 Received Date: 3/14/2012 4:50:00 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: 2075031	7196_CR6											
Work Order:	MREX81AC Report DB ID: 9MREX810											
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	3/14/12 07:00 p		2.5075	
							1.55E-01	N/A			g	

No. of Results: 1 Comments:

TestAmerica MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchSample 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.
 V5.2.18.2 A2002

FORM I

Date: 19-Mar-12

SAMPLE RESULTS

Lab Name: TestAmerica **SDG:** J01444 **Collection Date:** 3/13/2012 10:15:00 AM
Lot-Sample No.: J2C130478-1 **Report No.:** 50983 **Received Date:** 3/13/2012 4:20:00 PM
Client Sample ID: J1N1LN0 **COC No.:** RC-074-379 **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: 2074041	7196_CR6											
HEXCHROME	1.30E+01			0.0E+00	1.55E-01 mg/kg		N/A	(83.8)	3/13/12 06:00 p		2.5002	
							1.55E-01	N/A			g	

Work Order: MRD5D1AC Report DB ID: 9MRD5D10

No. of Results: 1 Comments:

TestAmerica MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchSample 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.
 V5.2.18.2 A2002

FORM I

Date: 19-Mar-12

SAMPLE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: J2C130478-2
 Client Sample ID: J1N1LN1
 SDG: J01444
 Report No.: 50983
 COC No.: RC-074-379
 Collection Date: 3/13/2012 10:20:00 AM
 Received Date: 3/13/2012 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: 2074041	7196_CR6											
HEXCHROME	8.44E+01			0.0E+00	1.55E-01 mg/kg		N/A	(544.4)	3/13/12 06:00 p		2.5091 g	
							1.55E-01	N/A				

Work Order: MRD5E1AC Report DB ID: 9MRD5E10

No. of Results: 1 Comments:

TestAmerica MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchSample 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.
 V5.2.18.2 A2002

FORM I

Date: 19-Mar-12

SAMPLE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: J2C130478-3
 Client Sample ID: J1N1LN2

SDG: J01444
 Report No.: 50983
 COC No.: RC-074-379

Collection Date: 3/13/2012 10:35:00 AM
 Received Date: 3/13/2012 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: 2074041	7196_CR6											
HEXCHROME	1.15E+01			0.0E+00	1.55E-01	mg/kg	N/A	(74.3)	3/13/12 06:00 p		2.5041	
							1.55E-01	N/A			9	

Work Order: MRD5F1AC Report DB ID: 9MRD5F10

No. of Results: 1 Comments:

TestAmerica MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLrchSample 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.
 V5.2.18.2 A2002

FORM I

Date: 19-Mar-12

SAMPLE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: J2C130478-4
 Client Sample ID: J1N1LN3

SDG: J01444
 Report No.: 50983
 COC No.: RC-074-379

Collection Date: 3/13/2012 10:30:00 AM
 Received Date: 3/13/2012 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: 2074041	7196_CR6											
HEXCHROME	5.58E+01			0.0E+00	1.55E-01 mg/kg		N/A	(360.)	3/13/12 06:00 p		2.5009	
							1.55E-01	N/A			g	

Work Order: MRD5G1AA Report DB ID: 9MRD5G10
 0.0E+00 1.55E-01 mg/kg N/A (360.) 3/13/12 06:00 p
 1.55E-01 N/A

No. of Results: 1 Comments:

TestAmerica MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRLchSample 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.
 V5.2.18.2 A2002

FORM I

Date: 19-Mar-12

SAMPLE RESULTS

Lab Name: TestAmerica **SDG:** J01444 **Collection Date:** 3/13/2012 10:25:00 AM
Lot-Sample No.: J2C130478-5 **Report No.:** 50983 **Received Date:** 3/13/2012 4:20:00 PM
Client Sample ID: J1N1LN4 **COC No.:** RC-074-379 **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: 2074041	7196_CR6											
Work Order:	MRD5H1AC											
Report DB ID:	9MRD5H10											
HEXCHROME	5.92E+01		0.0E+00	1.55E-01	mg/kg	N/A	(387.9)		3/13/12 06:00 p		2.502	
						1.55E-01	N/A				g	

No. of Results: 1 Comments:

FORM I

Date: 19-Mar-12

SAMPLE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: J2C140460-1
 Client Sample ID: J1NMC0
 SDG: J01444
 Report No.: 50983
 COC No.: RC-074-378
 Collection Date: 3/14/2012 12:10:00 PM
 Received Date: 3/14/2012 4:50:00 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: 2075031	7196_CR6											
Work Order:	MREX01AC											
Report DB ID:	9MREX010											
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	3/14/12 07:00 p		2.507	
							1.55E-01	N/A			g	

No. of Results: 1 Comments:

TestAmerica MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchSample 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.
 V5.2.18.2 A2002

FORM I

Date: 19-Mar-12

SAMPLE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: J2C140460-2
 Client Sample ID: J1NMC1
 SDG: J01444
 Report No.: 50983
 COC No.: RC-074-378
 Collection Date: 3/14/2012 12:15:00 PM
 Received Date: 3/14/2012 4:50:00 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: 2075031	7196_CR6											
Work Order: MREX11AC												
Report DB ID: 9MREX110												
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	3/14/12 07:00 p		2.5052	
							1.55E-01	N/A			g	

No. of Results: 1 Comments:

TestAmerica MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchSample 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.
 V5.2.18.2 A2002

FORM I

Date: 19-Mar-12

SAMPLE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: J2C140460-3
 Client Sample ID: J1NMC2

SDG: J01444
 Report No.: 50983
 COC No.: RC-074-378

Collection Date: 3/14/2012 12:20:00 PM
 Received Date: 3/14/2012 4:50:00 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: 2075031	7196_CR6											
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	3/14/12 07:00 p		2.5011	
							1.55E-01	N/A			9	

Work Order: MREX21AC Report DB ID: 9MREX210

No. of Results: 1 Comments:

FORM I
SAMPLE RESULTS

Date: 19-Mar-12

Lab Name: TestAmerica
 Lot-Sample No.: J2C140460-4
 Client Sample ID: J1NMC3

SDG: J01444
 Report No.: 50983
 COC No.: RC-074-378

Collection Date: 3/14/2012 12:25:00 PM
 Received Date: 3/14/2012 4:50:00 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: 2075031	7196_CR6											
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	3/14/12 07:00 p		2.5018	
							1.55E-01	N/A			9	

Work Order: MREX31AC Report DB ID: 9MREX3f10

No. of Results: 1 Comments:

FORM I

Date: 19-Mar-12

SAMPLE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: J2C140460-5
 Client Sample ID: J1NMC4
 SDG: J01444
 Report No.: 50983
 COC No.: RC-074-378
 Collection Date: 3/14/2012 12:30:00 PM
 Received Date: 3/14/2012 4:50:00 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: 2075031	7196_CR6											
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01 mg/kg		N/A	1.	3/14/12 07:00 p		2.5093	
							1.55E-01	N/A			g	

Work Order: MREX41AC Report DB ID: 9MREX410

No. of Results: 1 Comments:

TestAmerica MDC|MDA,I,c - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTL.RchSample 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.
 V5.2.18.2 A2002

FORM I

Date: 19-Mar-12

SAMPLE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: J2C140460-6
 Client Sample ID: J1NMC5

SDG: J01444
 Report No.: 50983
 COC No.: RC-074-378

Collection Date: 3/14/2012 12:35:00 PM
 Received Date: 3/14/2012 4:50:00 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: 2075031	7196_CR6											
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	3/14/12 07:00 p		2.5049	
							1.55E-01	N/A			9	

Work Order: MREX51AC Report DB ID: 9MREX510

No. of Results: 1 Comments:

FORM I

Date: 19-Mar-12

SAMPLE RESULTS

Lab Name: TestAmerica **SDG:** J01444 **Collection Date:** 3/14/2012 12:40:00 PM
Lot-Sample No.: J2C140460-7 **Report No.:** 50983 **Received Date:** 3/14/2012 4:50:00 PM
Client Sample ID: J1NMC6 **COC No.:** RC-074-378 **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: 2075031	7196_CR6											
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01 mg/kg		N/A	1.	3/14/12 07:00 p		2.5018	
							1.55E-01	N/A			9	

Work Order: MREX61AC² Report DB ID: 9MREX610

No. of Results: 1 Comments:

TestAmerica MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchSample 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.
 V5.2.18.2 A2002

FORM II

Date: 19-Mar-12

DUPLICATE RESULTS

Lab Name: TestAmerica **SDG:** J01444 **Collection Date:** 3/12/2012 1:05:00 PM
Lot-Sample No.: J2C120457-1 **Report No.:** 50983 **Received Date:** 3/12/2012 3:25:00 PM
Client Sample ID: J1N4L1 **COC No.:** RC-074-377 **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: 2073041	7196_CR6				Work Order: MRDFQ1CH	Report DB ID: MRDFQ1ER			Orig Sa DB ID: 9MRDFQ10			
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01 mg/kg	N/A	1.		3/12/12 05:00 p		2.5045	
	1.55E-01	U	RPD 0.0			1.55E-01	N/A				9	

No. of Results: 1 Comments:

TestAmerica RPD - Relative Percent Difference.
 rptSTLRchDupV5.2 MDC(MDA),Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 .18.2 A2002 U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM II

Date: 19-Mar-12

DUPLICATE RESULTS

Lab Name: TestAmerica
 Lot-Sample No.: J2C130478-1
 Client Sample ID: J1N1LN0
 SDG: J01444
 Report No.: 50983
 COC No.: RC-074-379
 Collection Date: 3/13/2012 10:15:00 AM
 Received Date: 3/13/2012 4:20:00 PM
 Matrix: SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 2074041	7196_CR6								Orig Sa DB ID: 9MRD5D10			
HEXCHROME	1.18E+01			Work Order: MRD5D1C0	1.55E-01	mg/kg	N/A	(76.3)	3/13/12 06:00 p		2.5021	
	1.30E+01		RPD 9.4			1.55E-01		N/A			9	

No. of Results: 1 Comments:

FORM II

Date: 19-Mar-12

DUPLICATE RESULTS

Lab Name: TestAmerica **SDG:** J01444 **Collection Date:** 3/14/2012 12:10:00 PM
Lot-Sample No.: J2C140460-1 **Report No.:** 50983 **Received Date:** 3/14/2012 4:50:00 PM
Client Sample ID: J1NMC0 **COC No.:** RC-074-378 **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: 2075031	7196_CR6				Work Order: MREX01CE	Report DB-ID: MREX01ER	Orig Sa DB ID: 9MREX010					
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	3/14/12 07:00 p		2.503	
	1.55E-01	U	RPD 0.0			1.55E-01	N/A	N/A			9	

No. of Results: 1 Comments:

TestAmerica RPD - Relative Percent Difference.

rptSTLRchDupV5.2 MDC(MDA),Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

.18.2 A2002 U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM II

Date: 19-Mar-12

BLANK RESULTS

Lab Name: TestAmerica
 Matrix: SOIL

SDG: J01444
 Report No.: 50983

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: 2073041 7196_CR6												
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1. N/A	3/12/12 05:00 p		2.5 g	
Work Order: MRDKW1AA Report DB ID: MRDKW1AB												
Batch: 2074041 7196_CR6												
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1. N/A	3/13/12 06:00 p		2.5 g	
Work Order: MREEE1AA Report DB ID: MREEE1AB												
Batch: 2075031 7196_CR6												
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1. N/A	3/14/12 07:00 p		2.5 g	
Work Order: MRE5Q1AA Report DB ID: MRE5Q1AB												

No. of Results: 3 Comments:

**FORM II
LCS RESULTS**

Date: 19-Mar-12

Lab Name: TestAmerica
Matrix: SOIL

SDG: J01444
Report No.: 50983

Parameter	Result	Count Qual Error (2 s)	Total Uncert(2 s)	MDL	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 2073041 7196_CR6												
HEXCHROME	1.88E+01		0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		94%	3/12/12 05:00 p	2.5	
Work Order: MRDKW1AC Report DB ID: MRDKW1AS												
Rec Limits: 85 115 -0.1												
Batch: 2074041 7196_CR6												
HEXCHROME	1.90E+01		0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		95%	3/13/12 06:00 p	2.5	
Work Order: MREEE1AC Report DB ID: MREEE1AS												
Rec Limits: 80 120 0.0												
Batch: 2075031 7196_CR6												
HEXCHROME	1.85E+01		0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		92%	3/14/12 07:00 p	2.5	
Work Order: MRE5Q1AC Report DB ID: MRE5Q1AS												
Rec Limits: 80 120 -0.1												

No. of Results: 3 Comments:

FORM II

Date: 19-Mar-12

MATRIX SPIKE RESULTS

Lab Name: TestAmerica SDG: J01444 Matrix: SOIL
 Lot-Sample No.: J2C120457-1, J1N4L1 Report No.: 50983

Parameter	SpikeResult, Orig Rst	Count Error (2 s)	Total Uncert(2 s)	MDC MDA	Rpt Unit, CRDL	Yield	Recovery	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 2073041	Work Order: MRDFQ1CG		Report DB ID: MRDFQ1CW	MRDFQ1CW	mg/kg	N/A	85.53%	1.03E+01	3/12/12 05:00 p	2.5015	7196_CR6
HEXCHROME	8.82E+00		0.0E+00	1.55E-01							
	1.55E-01									9	

Number of Results: 1

Comments:

TestAmerica RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
 rptSTLRchMs Bias - (Result/Expected)-1 as defined by ANSI N13.30.
 V5.2.18.2 A2002

FORM II

Date: 19-Mar-12

MATRIX SPIKE RESULTS

Lab Name: TestAmerica SDG: J01444 Matrix: SOIL
 Lot-Sample No.: J2C130478-1, J1N1LN0 Report No.: 50983

Parameter	SpikeResult, Orig Rst	Count Error (2 s)	Total Uncert(2 s)	MDC MDA	Rpt Unit, CRDL	Yield	Recovery	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 2074041	Work Order: MRD5D1CX	Report DB ID: MRD5D1CW	Orig Sa DB ID: 9MRD5D10								
HEXCHROME	9.27E+00	1.30E+01	0.0E+00	1.55E-01	mg/kg	N/A	90.51%	1.02E+01	3/13/12 06:00 p	2.5064	7196_CR6

Number of Results: 1

Comments:

TestAmerica RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
 rptSTLRchMs Bias - (Result/Expected)-1 as defined by ANSI N13.30.
 V5.2.18.2 A2002

FORM II

Date: 19-Mar-12

MATRIX SPIKE RESULTS

Lab Name: TestAmerica SDG: J01444 Matrix: SOIL
 Lot-Sample No.: J2C140460-1, J1NMC0 Report No.: 50983

Parameter	SpikeResult, Orig Rst	Count Error (2 s)	Total Uncert(2 s)	MDC MDA	Rpt Unit, CRDL	Yield	Recovery	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 2075031	Work Order: MREX01CD		Report DB ID: MREX01CW	Orig Sa DB ID: 9MREX010							
HEXCHROME	8.17E+00		0.0E+00	1.55E-01	mg/kg	N/A	79.38%	1.03E+01	3/14/12 07:00 p	2.5079	7196_CR6
	1.55E-01									g	

Number of Results: 1

Comments:

TestAmerica RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUS)+sq(TPUd))] as defined by ICPT BOA
 rptSTLRchMs Bias - (Result/Expected)-1 as defined by ANSI N13.30.
 V5.2.18.2 A2002

SDG: J01444
 SAF: RC-074
 BATCH: 2072168
 MATRIX: SOIL
 ANALYSIS DATE: 3/13/12

Client_id	Matrix	Result	Qualifier	Units	Reporting_Limits	Reporting_Limits	Uncertainty	Is_Analyzed	Decision_Level	LCSReAdd/Analysis	Batch_nbr	Test	Lab_sample_id
J1N4L1	SOIL	-1.72E+01	U	UG/G	3.61E+00	3.61E+00	1.80E-02	0.2496	G	1.45E-02	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	6.15E+01	U	UG/G	3.61E+00	3.61E+00	9.90E-01	0.2496	G	8.19E-01	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	5.59E+01	As	UG/G	2.80E-01	2.80E-01	1.60E+00	0.2496	G	1.34E+00	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	1.84E+01	Beryllium	UG/G	9.01E-02	9.01E-02	2.40E-02	0.2496	G	1.94E-02	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	1.64E+01	Cadmium	UG/G	1.04E+00	1.04E+00	2.40E-02	0.2496	G	2.01E-02	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	5.98E+00	Chromium	UG/G	4.01E+00	4.01E+00	5.10E-02	0.2496	G	4.22E-02	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	3.03E+00	Lead	UG/G	1.84E+00	1.84E+00	1.30E+00	0.2496	G	1.02E+00	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	-1.39E+00	Se	UG/G	3.41E+00	3.41E+00	1.80E+00	0.2496	G	1.47E+00	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	-4.30E+01	Ag	UG/G	3.63E+00	3.63E+00	2.60E-01	0.2477	G	2.13E-01	2072168	46DQ	MRDFR1A0
J1N4L2	SOIL	1.75E+00	As	UG/G	3.63E+00	3.63E+00	1.00E+00	0.2477	G	8.63E-01	2072168	46DQ	MRDFR1A0
J1N4L2	SOIL	5.63E+01	Beryllium	UG/G	2.83E-01	2.83E-01	2.30E+00	0.2477	G	1.87E+00	2072168	46DQ	MRDFR1A0
J1N4L2	SOIL	1.85E+01	Beryllium	UG/G	9.08E-02	9.08E-02	1.60E-02	0.2477	G	1.28E-02	2072168	46DQ	MRDFR1A0
J1N4L2	SOIL	1.54E+01	Cadmium	UG/G	1.05E+00	1.05E+00	3.40E-02	0.2477	G	2.76E-02	2072168	46DQ	MRDFR1A0
J1N4L2	SOIL	5.05E+00	Chromium	UG/G	4.04E+00	4.04E+00	5.30E-01	0.2477	G	4.40E-01	2072168	46DQ	MRDFR1A0
J1N4L2	SOIL	2.25E+00	Lead	UG/G	1.86E+00	1.86E+00	1.00E+00	0.2477	G	8.44E-01	2072168	46DQ	MRDFR1A0
J1N4L2	SOIL	-1.14E+00	Se	UG/G	3.43E+00	3.43E+00	1.10E+00	0.2477	G	8.67E-01	2072168	46DQ	MRDFR1A0
J1N4L3	SOIL	-3.60E+01	Ag	UG/G	3.63E+00	3.63E+00	2.10E-01	0.248	G	1.71E-01	2072168	46DQ	MRDF21A0
J1N4L3	SOIL	1.07E+00	As	UG/G	3.63E+00	3.63E+00	1.60E+00	0.248	G	1.33E+00	2072168	46DQ	MRDF21A0
J1N4L3	SOIL	5.49E+01	Beryllium	UG/G	2.82E-01	2.82E-01	9.80E-01	0.248	G	8.04E-01	2072168	46DQ	MRDF21A0
J1N4L3	SOIL	2.08E+01	Beryllium	UG/G	9.07E-02	9.07E-02	1.10E-02	0.248	G	8.67E-03	2072168	46DQ	MRDF21A0
J1N4L3	SOIL	1.44E+01	Cadmium	UG/G	1.05E+00	1.05E+00	5.10E-02	0.248	G	4.20E-02	2072168	46DQ	MRDF21A0
J1N4L3	SOIL	5.56E+00	Chromium	UG/G	4.03E+00	4.03E+00	2.80E-01	0.248	G	2.27E-01	2072168	46DQ	MRDF21A0
J1N4L3	SOIL	2.30E+00	Lead	UG/G	1.85E+00	1.85E+00	5.50E-01	0.248	G	4.52E-01	2072168	46DQ	MRDF21A0
J1N4L3	SOIL	-2.89E+00	Se	UG/G	3.43E+00	3.43E+00	7.50E-01	0.248	G	6.14E-01	2072168	46DQ	MRDF21A0
J1N4L3	SOIL	-3.59E+04	Ag	MG/L	1.80E-02	1.80E-02	1.50E-03	1	L	1.26E-03	2072168	46DQ	MRDH01A0
J1N4L3	SOIL	-2.14E+03	As	MG/L	1.80E-02	1.80E-02	8.40E-03	1	L	6.90E-03	2072168	46DQ	MRDH01A0
J1N4L3	SOIL	1.37E+04	Beryllium	MG/L	1.40E-03	1.40E-03	4.60E-05	1	L	3.78E-05	2072168	46DQ	MRDH01A0
J1N4L3	SOIL	2.42E+05	Beryllium	MG/L	4.50E-04	4.50E-04	1.30E-04	1	L	1.06E-04	2072168	46DQ	MRDH01A0
J1N4L3	SOIL	4.07E+04	Cadmium	MG/L	5.20E-03	5.20E-03	3.70E-04	1	L	3.08E-04	2072168	46DQ	MRDH01A0
J1N4L3	SOIL	-8.72E+05	Chromium	MG/L	2.00E-02	2.00E-02	8.50E-04	1	L	6.97E-04	2072168	46DQ	MRDH01A0
J1N4L3	SOIL	1.82E+04	Lead	MG/L	9.20E-03	9.20E-03	9.60E-04	1	L	7.87E-04	2072168	46DQ	MRDH01A0
J1N4L3	SOIL	-4.04E+03	Se	MG/L	1.70E-02	1.70E-02	3.20E-03	1	L	2.59E-03	2072168	46DQ	MRDH01A0
J1N4L3	SOIL	8.87E-01	Ag	MG/L	1.80E-02	1.80E-02	5.50E-03	1	L	4.50E-03	2072168	46DQ	MRDH01A0
J1N4L3	SOIL	9.21E-01	As	MG/L	1.80E-02	1.80E-02	1.20E-02	1	L	9.70E-03	2072168	46DQ	MRDH01A0
J1N4L3	SOIL	9.80E-01	Beryllium	MG/L	1.40E-03	1.40E-03	1.20E-02	1	L	1.02E-02	2072168	46DQ	MRDH01A0
J1N4L3	SOIL	9.24E-01	Beryllium	MG/L	4.50E-04	4.50E-04	3.50E-03	1	L	2.88E-03	2072168	46DQ	MRDH01A0
J1N4L3	SOIL	8.93E-01	Cadmium	MG/L	5.20E-03	5.20E-03	4.08E-03	1	L	4.08E-03	2072168	46DQ	MRDH01A0
J1N4L3	SOIL	9.25E-01	Chromium	MG/L	2.00E-02	2.00E-02	4.30E-03	1	L	3.53E-03	2072168	46DQ	MRDH01A0
J1N4L3	SOIL	9.43E-01	Lead	MG/L	9.20E-03	9.20E-03	1.10E-02	1	L	8.68E-03	2072168	46DQ	MRDH01A0
J1N4L3	SOIL	8.34E-01	Se	MG/L	1.70E-02	1.70E-02	8.40E-03	1	L	6.93E-03	2072168	46DQ	MRDH01A0
J1N4L1 DUP	SOIL	-2.90E+01	Ag	UG/G	3.58E+00	3.58E+00	1.30E-01	0.2512	G	1.05E-01	2072168	46DQ	MRDFQ1A0
J1N4L1 DUP	SOIL	2.24E+00	As	UG/G	3.58E+00	3.58E+00	1.80E+00	0.2512	G	1.48E+00	2072168	46DQ	MRDFQ1A0
J1N4L1 DUP	SOIL	5.89E+01	Beryllium	UG/G	2.79E-01	2.79E-01	2.90E-01	0.2512	G	2.38E-01	2072168	46DQ	MRDFQ1A0
J1N4L1 DUP	SOIL	1.96E+01	Beryllium	UG/G	8.96E-02	8.96E-02	1.70E-02	0.2512	G	1.39E-02	2072168	46DQ	MRDFQ1A0
J1N4L1 DUP	SOIL	1.25E+01	Cadmium	UG/G	1.04E+00	1.04E+00	5.50E-02	0.2512	G	4.50E-02	2072168	46DQ	MRDFQ1A0
J1N4L1 DUP	SOIL	6.12E+00	Chromium	UG/G	3.98E+00	3.98E+00	1.00E-01	0.2512	G	8.30E-02	2072168	46DQ	MRDFQ1A0
J1N4L1 DUP	SOIL	3.61E+00	Lead	UG/G	1.83E+00	1.83E+00	8.90E-01	0.2512	G	7.30E-01	2072168	46DQ	MRDFQ1A0
J1N4L1 DUP	SOIL	-1.42E+00	Se	UG/G	3.38E+00	3.38E+00	2.40E+00	0.2512	G	1.98E+00	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	7.74E+02	Ag	% REC	3.60E+00	3.60E+00	1.80E+00	0.2501	L	1.51E+00	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	1.85E+02	As	% REC	3.60E+00	3.60E+00	3.60E+00	0.2501	L	2.93E+00	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	1.92E+02	Ba	% REC	2.80E-01	2.80E-01	5.50E+00	0.2501	L	4.50E+00	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	1.87E+02	Beryllium	% REC	9.00E-02	9.00E-02	1.90E+00	0.2501	L	1.59E+00	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	1.82E+02	Chromium	% REC	4.00E+00	4.00E+00	1.70E+00	0.2501	L	1.10E+00	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	1.82E+02	Lead	% REC	1.84E+00	1.84E+00	1.40E+00	0.2501	L	1.12E+00	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	1.65E+02	Se	% REC	3.40E+00	3.40E+00	1.30E+00	0.2501	L	1.11E+00	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	7.74E+02	Ag	% REC	3.55E+00	3.55E+00	2.80E-01	0.2534	L	2.34E-01	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	1.84E+02	As	% REC	3.55E+00	3.55E+00	2.20E+00	0.2534	L	1.81E+00	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	1.96E+02	Ba	% REC	2.76E-01	2.76E-01	3.10E+00	0.2534	L	2.54E+00	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	1.85E+02	Beryllium	% REC	8.88E-02	8.88E-02	4.00E-01	0.2534	L	3.25E-01	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	1.79E+02	Chromium	% REC	1.03E+00	1.03E+00	4.90E-01	0.2534	L	4.04E-01	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	1.82E+02	Lead	% REC	3.95E+00	3.95E+00	5.20E-01	0.2534	L	4.30E-01	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	1.80E+02	Se	% REC	1.82E+00	1.82E+00	7.50E-01	0.2534	L	6.15E-01	2072168	46DQ	MRDFQ1A0
J1N4L1	SOIL	1.67E+02	Ag	% REC	3.35E+00	3.35E+00	4.80E+00	0.2534	L	3.91E+00	2072168	46DQ	MRDFQ1A0

SDG: J01444
 SAF: RC-074
 BATCH: 2073129
 MATRIX: SOIL
 ANALYSIS DATE: 3/14/12

Client_id	Matrix	Result	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits	Reporting_Limits	Uncertainty_1s	Analyzed	Decision_Level	LCSReAdded	Analysis_date	Batch_nbr	Test_Mi	Lab_sample_id
J1NLN0	SOIL	BS	7440-22-4	Ag	-3.38E-01 U		UG/G	3.63E+00	3.63E+00	3.30E-01	0.248 G	2.69E-01		3/14/2012 10:37	2073129	46DQ	MRD5D1A0
J1NLN0	SOIL	BS	7440-38-2	As	1.50E+00 U		UG/G	3.63E+00	3.63E+00	6.50E-01	0.248 G	5.35E-01		3/14/2012 10:37	2073129	46DQ	MRD5D1A0
J1NLN0	SOIL	BS	7440-39-3	Ba	6.44E-01		UG/G	2.82E-01	2.82E-01	2.00E+00	0.248 G	1.63E+00		3/14/2012 10:37	2073129	46DQ	MRD5D1A0
J1NLN0	SOIL	BS	7440-41-7	Beryllium	1.95E-01		UG/G	9.07E-02	9.07E-02	1.00E-02	0.248 G	8.53E-03		3/14/2012 10:37	2073129	46DQ	MRD5D1A0
J1NLN0	SOIL	BS	7440-43-9	Cadmium	1.37E-01 U		UG/G	1.05E+00	1.05E+00	1.40E-01	0.248 G	1.15E-01		3/14/2012 10:37	2073129	46DQ	MRD5D1A0
J1NLN0	SOIL	BS	7440-47-3	Chromium	2.37E+01		UG/G	4.03E+00	4.03E+00	3.70E-01	0.248 G	3.00E-01		3/14/2012 10:37	2073129	46DQ	MRD5D1A0
J1NLN0	SOIL	BS	7439-92-1	Lead	1.89E+00		UG/G	1.85E+00	1.85E+00	5.80E-01	0.248 G	4.78E-01		3/14/2012 10:37	2073129	46DQ	MRD5D1A0
J1NLN0	SOIL	BS	7782-49-2	Se	5.44E-01 U		UG/G	3.43E+00	3.43E+00	1.50E+00	0.248 G	1.23E+00		3/14/2012 10:37	2073129	46DQ	MRD5D1A0
J1NLN1	SOIL	BS	7440-22-4	Ag	2.48E-01 U		UG/G	3.61E+00	3.61E+00	1.10E-01	0.249 G	9.02E-02		3/14/2012 10:54	2073129	46DQ	MRD5E1A0
J1NLN1	SOIL	BS	7440-38-2	As	1.16E+00 U		UG/G	3.61E+00	3.61E+00	1.20E+00	0.249 G	1.03E+00		3/14/2012 10:54	2073129	46DQ	MRD5E1A0
J1NLN1	SOIL	BS	7440-39-3	Ba	8.21E+01		UG/G	2.81E-01	2.81E-01	2.10E+00	0.249 G	1.71E+00		3/14/2012 10:54	2073129	46DQ	MRD5E1A0
J1NLN1	SOIL	BS	7440-41-7	Beryllium	1.90E-01		UG/G	9.04E-02	9.04E-02	2.90E-02	0.249 G	2.38E-02		3/14/2012 10:54	2073129	46DQ	MRD5E1A0
J1NLN1	SOIL	BS	7440-43-9	Cadmium	1.95E-01 U		UG/G	1.04E+00	1.04E+00	2.80E-02	0.249 G	2.30E-02		3/14/2012 10:54	2073129	46DQ	MRD5E1A0
J1NLN1	SOIL	BS	7440-47-3	Chromium	1.27E+02		UG/G	4.02E+00	4.02E+00	2.20E+00	0.249 G	1.81E+00		3/14/2012 10:54	2073129	46DQ	MRD5E1A0
J1NLN1	SOIL	BS	7439-92-1	Lead	1.53E+00 U		UG/G	1.85E+00	1.85E+00	7.30E-01	0.249 G	6.01E-01		3/14/2012 10:54	2073129	46DQ	MRD5E1A0
J1NLN1	SOIL	BS	7782-49-2	Se	1.00E+00 U		UG/G	3.41E+00	3.41E+00	5.70E-01	0.249 G	4.66E-01		3/14/2012 10:54	2073129	46DQ	MRD5E1A0
J1NLN2	SOIL	BS	7440-22-4	Ag	-2.43E-01 U		UG/G	3.62E+00	3.62E+00	1.10E-01	0.248 G	8.85E-02		3/14/2012 10:58	2073129	46DQ	MRD5F1A0
J1NLN2	SOIL	BS	7440-38-2	As	9.28E-01 U		UG/G	3.62E+00	3.62E+00	9.90E-01	0.248 G	8.15E-01		3/14/2012 10:58	2073129	46DQ	MRD5F1A0
J1NLN2	SOIL	BS	7440-39-3	Ba	5.44E-01		UG/G	2.82E-01	2.82E-01	5.10E-01	0.248 G	4.22E-01		3/14/2012 10:58	2073129	46DQ	MRD5F1A0
J1NLN2	SOIL	BS	7440-41-7	Beryllium	1.70E-01		UG/G	9.05E-02	9.05E-02	1.90E-02	0.248 G	1.60E-02		3/14/2012 10:58	2073129	46DQ	MRD5F1A0
J1NLN2	SOIL	BS	7440-43-9	Cadmium	1.52E-01 U		UG/G	1.05E+00	1.05E+00	3.20E-02	0.248 G	2.65E-02		3/14/2012 10:58	2073129	46DQ	MRD5F1A0
J1NLN2	SOIL	BS	7440-47-3	Chromium	2.41E+01 U		UG/G	4.02E+00	4.02E+00	3.20E-01	0.248 G	2.65E-01		3/14/2012 10:58	2073129	46DQ	MRD5F1A0
J1NLN2	SOIL	BS	7439-92-1	Lead	1.57E+00 U		UG/G	1.85E+00	1.85E+00	4.60E-01	0.248 G	3.79E-01		3/14/2012 11:02	2073129	46DQ	MRD5G1A0
J1NLN2	SOIL	BS	7782-49-2	Se	6.74E-01 U		UG/G	3.42E+00	3.42E+00	9.60E-01	0.248 G	7.90E-01		3/14/2012 11:02	2073129	46DQ	MRD5G1A0
J1NLN3	SOIL	BS	7440-22-4	Ag	-3.38E-01 U		UG/G	3.56E+00	3.56E+00	7.90E-02	0.252 G	6.46E-02		3/14/2012 11:02	2073129	46DQ	MRD5G1A0
J1NLN3	SOIL	BS	7440-38-2	As	1.46E+00 U		UG/G	3.56E+00	3.56E+00	5.60E-01	0.252 G	4.61E-01		3/14/2012 11:02	2073129	46DQ	MRD5G1A0
J1NLN3	SOIL	BS	7440-39-3	Ba	6.58E-01		UG/G	2.77E-01	2.77E-01	7.20E-01	0.252 G	5.96E-01		3/14/2012 11:02	2073129	46DQ	MRD5G1A0
J1NLN3	SOIL	BS	7440-41-7	Beryllium	1.94E-01		UG/G	8.91E-02	8.91E-02	7.20E-03	0.252 G	5.89E-03		3/14/2012 11:02	2073129	46DQ	MRD5G1A0
J1NLN3	SOIL	BS	7440-43-9	Cadmium	1.58E-01 U		UG/G	1.03E+00	1.03E+00	1.00E-01	0.252 G	8.46E-02		3/14/2012 11:02	2073129	46DQ	MRD5G1A0
J1NLN3	SOIL	BS	7440-47-3	Chromium	6.91E+01		UG/G	3.96E+00	3.96E+00	2.70E-01	0.252 G	2.19E-01		3/14/2012 11:02	2073129	46DQ	MRD5G1A0
J1NLN3	SOIL	BS	7439-92-1	Lead	1.54E+00 U		UG/G	1.82E+00	1.82E+00	1.40E-01	0.252 G	1.18E-01		3/14/2012 11:02	2073129	46DQ	MRD5G1A0
J1NLN3	SOIL	BS	7782-49-2	Se	1.31E+00 U		UG/G	3.37E+00	3.37E+00	7.00E-01	0.252 G	3.98E-01		3/14/2012 11:02	2073129	46DQ	MRD5G1A0
J1NLN4	SOIL	BS	7440-22-4	Ag	-3.11E-01 U		UG/G	3.56E+00	3.56E+00	1.80E-01	0.253 G	1.48E-01		3/14/2012 11:19	2073129	46DQ	MRD5H1A0
J1NLN4	SOIL	BS	7440-38-2	As	1.40E+00 U		UG/G	3.56E+00	3.56E+00	7.10E-01	0.253 G	5.81E-01		3/14/2012 11:19	2073129	46DQ	MRD5H1A0
J1NLN4	SOIL	BS	7440-39-3	Ba	6.24E-01		UG/G	2.77E-01	2.77E-01	1.00E+00	0.253 G	8.26E-01		3/14/2012 11:19	2073129	46DQ	MRD5H1A0
J1NLN4	SOIL	BS	7440-41-7	Beryllium	1.85E-01		UG/G	8.89E-02	8.89E-02	9.70E-03	0.253 G	7.95E-03		3/14/2012 11:19	2073129	46DQ	MRD5H1A0
J1NLN4	SOIL	BS	7440-43-9	Cadmium	1.68E-01 U		UG/G	1.03E+00	1.03E+00	9.30E-02	0.253 G	7.63E-02		3/14/2012 11:19	2073129	46DQ	MRD5H1A0
J1NLN4	SOIL	BS	7440-47-3	Chromium	1.60E+02		UG/G	3.95E+00	3.95E+00	2.30E+00	0.253 G	1.93E+00		3/14/2012 11:19	2073129	46DQ	MRD5H1A0
J1NLN4	SOIL	BS	7439-92-1	Lead	1.73E+00 U		UG/G	1.82E+00	1.82E+00	2.90E-01	0.253 G	2.42E-01		3/14/2012 11:19	2073129	46DQ	MRD5H1A0
J1NLN4	SOIL	BS	7782-49-2	Se	1.24E+00 U		UG/G	3.36E+00	3.36E+00	8.70E-01	0.253 G	7.19E-01		3/14/2012 11:19	2073129	46DQ	MRD5H1A0
INTRA-LAB BLANK	SOIL	BLK	7440-22-4	Ag	9.98E-05 U		MGL	1.80E-02	1.80E-02	2.10E-04	1 L	1.76E-04		3/14/2012 10:25	2073129	46DQ	MRD7D1A0
INTRA-LAB BLANK	SOIL	BLK	7440-38-2	As	-5.88E-04 U		MGL	1.80E-02	1.80E-02	1.30E-03	1 L	1.07E-03		3/14/2012 10:25	2073129	46DQ	MRD7D1A0
INTRA-LAB BLANK	SOIL	BLK	7440-39-3	Ba	4.90E-04 U		MGL	1.40E-03	1.40E-03	6.70E-05	1 L	5.55E-05		3/14/2012 10:25	2073129	46DQ	MRD7D1A0
INTRA-LAB BLANK	SOIL	BLK	7440-41-7	Beryllium	1.01E-04 U		MGL	4.50E-04	4.50E-04	7.20E-05	1 L	5.90E-05		3/14/2012 10:25	2073129	46DQ	MRD7D1A0
INTRA-LAB BLANK	SOIL	BLK	7440-43-9	Cadmium	2.62E-04 U		MGL	5.20E-03	5.20E-03	1.50E-04	1 L	1.27E-04		3/14/2012 10:25	2073129	46DQ	MRD7D1A0
INTRA-LAB BLANK	SOIL	BLK	7440-47-3	Chromium	6.78E-05 U		MGL	2.00E-02	2.00E-02	4.20E-04	1 L	3.48E-04		3/14/2012 10:25	2073129	46DQ	MRD7D1A0
INTRA-LAB BLANK	SOIL	BLK	7439-92-1	Lead	7.33E-04 U		MGL	9.20E-03	9.20E-03	2.10E-03	1 L	1.71E-03		3/14/2012 10:25	2073129	46DQ	MRD7D1A0
INTRA-LAB BLANK	SOIL	BLK	7782-49-2	Se	8.69E-04 U		MGL	1.70E-02	1.70E-02	3.70E-03	1 L	3.08E-03		3/14/2012 10:25	2073129	46DQ	MRD7D1A0
INTRA-LAB CHECK	SOIL	LCS	7440-22-4	Ag	9.33E-01		MGL	1.80E-02	1.80E-02	1.40E-02	1 L	1.13E-02	0.93	3/14/2012 10:28	2073129	46DQ	MRD7D1A0
INTRA-LAB CHECK	SOIL	LCS	7440-38-2	As	9.33E-01		MGL	1.80E-02	1.80E-02	6.40E-03	1 L	5.28E-03	0.93	3/14/2012 10:28	2073129	46DQ	MRD7D1A0
INTRA-LAB CHECK	SOIL	LCS	7440-39-3	Ba	1.02E+00		MGL	1.40E-03	1.40E-03	4.70E-03	1 L	3.87E-03	1.02	3/14/2012 10:28	2073129	46DQ	MRD7D1A0
INTRA-LAB CHECK	SOIL	LCS	7440-41-7	Beryllium	9.47E-01		MGL	4.50E-04	4.50E-04	7.00E-03	1 L	5.73E-03	0.95	3/14/2012 10:28	2073129	46DQ	MRD7D1A0
INTRA-LAB CHECK	SOIL	LCS	7440-43-9	Cadmium	9.09E-01		MGL	5.20E-03	5.20E-03	3.00E-03	1 L	2.43E-03	0.91	3/14/2012 10:28	2073129	46DQ	MRD7D1A0
INTRA-LAB CHECK	SOIL	LCS	7440-47-3	Chromium	9.57E-01		MGL	2.00E-02	2.00E-02	7.70E-03	1 L	6.30E-03	0.96	3/14/2012 10:28	2073129	46DQ	MRD7D1A0
INTRA-LAB CHECK	SOIL	LCS	7439-92-1	Lead	9.32E-01		MGL	9.20E-03	9.20E-03	7.00E-03	1 L	5.73E-03	0.93	3/14/2012 10:28	2073129	46DQ	MRD7D1A0
INTRA-LAB CHECK	SOIL	DUP	7782-49-2	Se	8.49E-01		MGL	1.70E-02	1.70E-02	7.70E-03	1 L	6.34E-03	0.85	3/14/2012 10:51	2073129	46DQ	MRD5D1A0
J1NLN0 DUP	SOIL	DUP	7440-22-4	Ag	-2.01E+00 U		UG/G	3.61E+01	3.61E+01	3.20E+00	0.0249 G	7.12E+00		3/14/2012 10:51	2073129	46DQ	MRD5D1A0
J1NL																	

Client_id	Matrix	Result	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits	Reporting_Limits	Uncertainty_1s	Analyzed_Analyzed	Decision_Level	LCSReAdded	Analysis_date_time	Batch_nbr	Test_M_Lab_sample_id
J1NLN0	SOIL	MS	7440-41-7	Beryllium	1.91E+02	% REC	9.04E-02	9.04E-02	2.90E+00	0.249 L	2.35E+00	0.95	200.8	3/14/2012 10:41	2073129 46DQ	MRD5D1A0
J1NLN0	SOIL	MS	7440-43-9	Cadmium	1.81E+02	% REC	1.04E+00	1.04E+00	1.20E+00	0.249 L	9.83E-01	0.9	200.8	3/14/2012 10:41	2073129 46DQ	MRD5D1A0
J1NLN0	SOIL	MS	7440-47-3	Chromium	1.86E+02	% REC	4.02E+00	4.02E+00	3.70E+00	0.249 L	3.02E+00	0.93	200.8	3/14/2012 10:41	2073129 46DQ	MRD5D1A0
J1NLN0	SOIL	MS	7439-92-1	Lead	1.79E+02	% REC	1.85E+00	1.85E+00	1.20E+00	0.249 L	9.72E-01	0.89	200.8	3/14/2012 10:41	2073129 46DQ	MRD5D1A0
J1NLN0	SOIL	MS	7782-49-2	Se	1.71E+02	% REC	3.41E+00	3.41E+00	1.30E+00	0.249 L	1.03E+00	0.85	200.8	3/14/2012 10:41	2073129 46DQ	MRD5D1A0
J1NLN0	SOIL	MSD	7440-22-4	Ag	1.87E+02	% REC	3.63E+00	3.63E+00	4.50E+00	0.2481 L	3.74E+00	0.93	201.5	3/14/2012 10:46	2073129 46DQ	MRD5D1A0
J1NLN0	SOIL	MSD	7440-38-2	As	1.86E+02	% REC	3.63E+00	3.63E+00	2.50E+00	0.2481 L	2.04E+00	0.92	201.5	3/14/2012 10:46	2073129 46DQ	MRD5D1A0
J1NLN0	SOIL	MSD	7440-39-3	Ba	1.95E+02	% REC	2.82E-01	2.82E-01	1.30E+01	0.2481 L	1.07E+01	0.97	201.5	3/14/2012 10:46	2073129 46DQ	MRD5D1A0
J1NLN0	SOIL	MSD	7440-41-7	Beryllium	1.92E+02	% REC	9.07E-02	9.07E-02	5.10E+00	0.2481 L	4.18E+00	0.95	201.5	3/14/2012 10:46	2073129 46DQ	MRD5D1A0
J1NLN0	SOIL	MSD	7440-43-9	Cadmium	1.82E+02	% REC	1.05E+00	1.05E+00	1.50E+00	0.2481 L	1.24E+00	0.9	201.5	3/14/2012 10:46	2073129 46DQ	MRD5D1A0
J1NLN0	SOIL	MSD	7440-47-3	Chromium	1.90E+02	% REC	4.03E+00	4.03E+00	5.90E+00	0.2481 L	4.85E+00	0.94	201.5	3/14/2012 10:46	2073129 46DQ	MRD5D1A0
J1NLN0	SOIL	MSD	7439-92-1	Lead	1.79E+02	% REC	1.85E+00	1.85E+00	2.80E+00	0.2481 L	2.31E+00	0.89	201.5	3/14/2012 10:46	2073129 46DQ	MRD5D1A0
J1NLN0	SOIL	MSD	7782-49-2	Se	1.70E+02	% REC	3.43E+00	3.43E+00	3.60E+00	0.2481 L	2.99E+00	0.84	201.5	3/14/2012 10:46	2073129 46DQ	MRD5D1A0

SDG: J01444
 SAF: RC-074
 BATCH: 2074151
 MATRIX: SOIL
 ANALYSIS DATE: 3/15/12

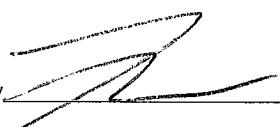
Client_id	Main	Result	Qualifier	Units	Reporting_Limits	Reporting_Limits	Uncertainty	1s Analyzed	Decision_Level	LCSRecAdded	Analysis_date	time	Batch_nbr	Test_Meth	Lab_sample_id
J1NMC0	SOIL BS	-3.19E-01 U	UG/G	UG/G	3.67E+00	3.67E+00	1.10E-01	0.2453 G	8.86E-02		3/15/2012 1:37		2074151	46DQ	MREX01A0
J1NMC0	SOIL BS	8.67E-01 U	UG/G	UG/G	3.67E+00	3.67E+00	5.50E-01	0.2453 G	4.49E-01		3/15/2012 1:37		2074151	46DQ	MREX01A0
J1NMC0	SOIL BS	5.88E-01 U	UG/G	UG/G	2.85E-01	2.85E-01	1.70E-01	0.2453 G	1.42E-01		3/15/2012 1:37		2074151	46DQ	MREX01A0
J1NMC0	SOIL BS	1.77E-01 U	UG/G	UG/G	9.17E-02	9.17E-02	1.30E-02	0.2453 G	1.07E-02		3/15/2012 1:37		2074151	46DQ	MREX01A0
J1NMC0	SOIL BS	1.70E-01 U	UG/G	UG/G	1.06E+00	1.06E+00	1.30E-01	0.2453 G	1.07E-01		3/15/2012 1:37		2074151	46DQ	MREX01A0
J1NMC0	SOIL BS	2.42E+00 U	UG/G	UG/G	4.08E+00	4.08E+00	1.20E-01	0.2453 G	9.51E-02		3/15/2012 1:37		2074151	46DQ	MREX01A0
J1NMC0	SOIL BS	1.20E+00 U	UG/G	UG/G	1.88E+00	1.88E+00	1.60E-01	0.2453 G	1.30E-01		3/15/2012 1:37		2074151	46DQ	MREX01A0
J1NMC0	SOIL BS	1.09E+00 U	UG/G	UG/G	3.47E+00	3.47E+00	4.20E-01	0.2453 G	3.44E-01		3/15/2012 1:37		2074151	46DQ	MREX01A0
J1NMC1	SOIL BS	-3.96E-01 U	UG/G	UG/G	3.58E+00	3.58E+00	5.10E-02	0.2515 G	4.22E-02		3/15/2012 1:54		2074151	46DQ	MREX1
J1NMC1	SOIL BS	1.24E+00 U	UG/G	UG/G	3.58E+00	3.58E+00	2.30E-01	0.2515 G	1.89E-01		3/15/2012 1:54		2074151	46DQ	MREX1
J1NMC1	SOIL BS	5.41E-01 U	UG/G	UG/G	2.78E-01	2.78E-01	1.70E+00	0.2515 G	1.43E+00		3/15/2012 1:54		2074151	46DQ	MREX1
J1NMC1	SOIL BS	2.13E-01 U	UG/G	UG/G	8.95E-02	8.95E-02	2.70E-03	0.2515 G	2.22E-03		3/15/2012 1:54		2074151	46DQ	MREX1
J1NMC1	SOIL BS	1.45E-01 U	UG/G	UG/G	1.03E+00	1.03E+00	8.70E-02	0.2515 G	7.18E-02		3/15/2012 1:54		2074151	46DQ	MREX1
J1NMC1	SOIL BS	4.20E+00 U	UG/G	UG/G	3.98E+00	3.98E+00	2.50E-01	0.2515 G	2.05E-01		3/15/2012 1:54		2074151	46DQ	MREX1
J1NMC1	SOIL BS	1.51E+00 U	UG/G	UG/G	1.83E+00	1.83E+00	6.40E-01	0.2515 G	5.24E-01		3/15/2012 1:54		2074151	46DQ	MREX1
J1NMC1	SOIL BS	9.78E-01 U	UG/G	UG/G	3.38E+00	3.38E+00	2.00E+00	0.2515 G	1.67E+00		3/15/2012 1:54		2074151	46DQ	MREX1
J1NMC2	SOIL BS	-3.43E-01 U	UG/G	UG/G	3.55E+00	3.55E+00	1.10E-01	0.2538 G	9.20E-02		3/15/2012 1:58		2074151	46DQ	MREX2
J1NMC2	SOIL BS	1.21E+00 U	UG/G	UG/G	3.55E+00	3.55E+00	2.70E-01	0.2538 G	2.20E-01		3/15/2012 1:58		2074151	46DQ	MREX2
J1NMC2	SOIL BS	6.04E+01 U	UG/G	UG/G	2.76E-01	2.76E-01	1.20E+00	0.2538 G	9.87E-01		3/15/2012 1:58		2074151	46DQ	MREX2
J1NMC2	SOIL BS	1.99E-01 U	UG/G	UG/G	8.87E-02	8.87E-02	7.30E-03	0.2538 G	6.00E-03		3/15/2012 1:58		2074151	46DQ	MREX2
J1NMC2	SOIL BS	1.28E-01 U	UG/G	UG/G	1.02E+00	1.02E+00	5.20E-02	0.2538 G	4.27E-02		3/15/2012 1:58		2074151	46DQ	MREX2
J1NMC2	SOIL BS	3.26E+00 U	UG/G	UG/G	3.94E+00	3.94E+00	1.40E-01	0.2538 G	1.12E-01		3/15/2012 1:58		2074151	46DQ	MREX2
J1NMC2	SOIL BS	1.49E+00 U	UG/G	UG/G	1.81E+00	1.81E+00	3.20E-01	0.2538 G	2.63E-01		3/15/2012 1:58		2074151	46DQ	MREX2
J1NMC2	SOIL BS	1.38E+00 U	UG/G	UG/G	3.35E+00	3.35E+00	1.20E+00	0.2538 G	9.75E-01		3/15/2012 1:58		2074151	46DQ	MREX2
J1NMC3	SOIL BS	-3.06E-01 U	UG/G	UG/G	3.58E+00	3.58E+00	2.00E-01	0.2512 G	1.63E-01		3/15/2012 2:01		2074151	46DQ	MREX3
J1NMC3	SOIL BS	8.28E-01 U	UG/G	UG/G	3.58E+00	3.58E+00	7.10E-01	0.2512 G	6.16E-01		3/15/2012 2:01		2074151	46DQ	MREX3
J1NMC3	SOIL BS	5.44E+01 U	UG/G	UG/G	2.79E-01	2.79E-01	1.00E+00	0.2512 G	1.43E-01		3/15/2012 2:01		2074151	46DQ	MREX3
J1NMC3	SOIL BS	1.82E-01 U	UG/G	UG/G	8.96E-02	8.96E-02	5.20E-03	0.2512 G	4.30E-03		3/15/2012 2:01		2074151	46DQ	MREX3
J1NMC3	SOIL BS	1.41E-01 U	UG/G	UG/G	1.04E+00	1.04E+00	3.40E-02	0.2512 G	2.76E-02		3/15/2012 2:01		2074151	46DQ	MREX3
J1NMC3	SOIL BS	2.15E+00 U	UG/G	UG/G	3.98E+00	3.98E+00	1.60E-01	0.2512 G	1.34E-01		3/15/2012 2:01		2074151	46DQ	MREX3
J1NMC3	SOIL BS	1.40E+00 U	UG/G	UG/G	1.83E+00	1.83E+00	3.10E-01	0.2512 G	2.59E-01		3/15/2012 2:01		2074151	46DQ	MREX3
J1NMC3	SOIL BS	7.70E-01 U	UG/G	UG/G	3.38E+00	3.38E+00	4.80E-01	0.2512 G	3.96E-01		3/15/2012 2:01		2074151	46DQ	MREX3
J1NMC4	SOIL BS	-3.48E-01 U	UG/G	UG/G	3.69E+00	3.69E+00	2.00E-01	0.2437 G	1.66E-01		3/15/2012 2:05		2074151	46DQ	MREX4
J1NMC4	SOIL BS	9.28E-02 U	UG/G	UG/G	3.69E+00	3.69E+00	7.80E-01	0.2437 G	6.41E-01		3/15/2012 2:05		2074151	46DQ	MREX4
J1NMC4	SOIL BS	5.91E-01 U	UG/G	UG/G	2.87E-01	2.87E-01	1.30E+00	0.2437 G	1.09E+00		3/15/2012 2:05		2074151	46DQ	MREX4
J1NMC4	SOIL BS	1.78E-01 U	UG/G	UG/G	9.23E-02	9.23E-02	1.80E-02	0.2437 G	1.48E-02		3/15/2012 2:05		2074151	46DQ	MREX4
J1NMC4	SOIL BS	1.54E-01 U	UG/G	UG/G	1.07E+00	1.07E+00	7.90E-02	0.2437 G	6.46E-02		3/15/2012 2:05		2074151	46DQ	MREX4
J1NMC4	SOIL BS	3.14E+00 U	UG/G	UG/G	4.10E+00	4.10E+00	2.20E-01	0.2437 G	1.80E-01		3/15/2012 2:05		2074151	46DQ	MREX4
J1NMC4	SOIL BS	9.18E-01 U	UG/G	UG/G	1.89E+00	1.89E+00	3.60E-01	0.2437 G	2.92E-01		3/15/2012 2:05		2074151	46DQ	MREX4
J1NMC4	SOIL BS	6.64E-01 U	UG/G	UG/G	3.49E+00	3.49E+00	6.90E-01	0.2437 G	5.70E-01		3/15/2012 2:05		2074151	46DQ	MREX4
J1NMC5	SOIL BS	-5.20E-01 U	UG/G	UG/G	3.52E+00	3.52E+00	1.30E-01	0.2555 G	1.11E-01		3/15/2012 2:09		2074151	46DQ	MREX5
J1NMC5	SOIL BS	1.15E+00 U	UG/G	UG/G	3.52E+00	3.52E+00	1.20E+00	0.2555 G	9.87E-01		3/15/2012 2:09		2074151	46DQ	MREX5
J1NMC5	SOIL BS	5.66E+01 U	UG/G	UG/G	2.74E-01	2.74E-01	6.90E-01	0.2555 G	5.64E-01		3/15/2012 2:09		2074151	46DQ	MREX5
J1NMC5	SOIL BS	2.13E-01 U	UG/G	UG/G	8.81E-02	8.81E-02	1.70E-02	0.2555 G	1.40E-02		3/15/2012 2:09		2074151	46DQ	MREX5
J1NMC5	SOIL BS	1.55E-01 U	UG/G	UG/G	1.02E+00	1.02E+00	7.30E-02	0.2555 G	6.03E-02		3/15/2012 2:09		2074151	46DQ	MREX5
J1NMC5	SOIL BS	3.65E+00 U	UG/G	UG/G	3.91E+00	3.91E+00	8.80E-02	0.2555 G	7.28E-02		3/15/2012 2:09		2074151	46DQ	MREX5
J1NMC5	SOIL BS	1.45E+00 U	UG/G	UG/G	1.80E+00	1.80E+00	7.10E-01	0.2555 G	5.86E-01		3/15/2012 2:09		2074151	46DQ	MREX5
J1NMC5	SOIL BS	1.22E+00 U	UG/G	UG/G	3.33E+00	3.33E+00	5.40E-03	0.2555 G	4.43E-03		3/15/2012 2:09		2074151	46DQ	MREX5
J1NMC6	SOIL BS	-2.95E-01 U	UG/G	UG/G	3.53E+00	3.53E+00	1.10E-01	0.2547 G	8.91E-02		3/15/2012 2:26		2074151	46DQ	MREX6
J1NMC6	SOIL BS	7.44E-02 U	UG/G	UG/G	3.53E+00	3.53E+00	1.50E+00	0.2547 G	2.90E-01		3/15/2012 2:26		2074151	46DQ	MREX6
J1NMC6	SOIL BS	6.78E+01 U	UG/G	UG/G	2.75E-01	2.75E-01	2.10E+00	0.2547 G	1.75E+00		3/15/2012 2:26		2074151	46DQ	MREX6
J1NMC6	SOIL BS	1.96E-01 U	UG/G	UG/G	8.83E-02	8.83E-02	9.80E-03	0.2547 G	8.06E-03		3/15/2012 2:26		2074151	46DQ	MREX6
J1NMC6	SOIL BS	4.05E+00 U	UG/G	UG/G	1.02E+00	1.02E+00	5.40E-02	0.2547 G	4.44E-02		3/15/2012 2:26		2074151	46DQ	MREX6
J1NMC6	SOIL BS	1.32E+00 U	UG/G	UG/G	3.93E+00	3.93E+00	1.60E-01	0.2547 G	1.34E-01		3/15/2012 2:26		2074151	46DQ	MREX6
J1NMC6	SOIL BS	1.81E+00 U	UG/G	UG/G	1.81E+00	1.81E+00	3.70E-01	0.2547 G	3.03E-01		3/15/2012 2:26		2074151	46DQ	MREX6
J1NMC6	SOIL BS	9.90E-01 U	UG/G	UG/G	3.34E+00	3.34E+00	1.00E+00	0.2547 G	8.60E-01		3/15/2012 2:26		2074151	46DQ	MREX6
J1NLM5	SOIL BS	-2.79E-01 U	UG/G	UG/G	3.68E+00	3.68E+00	1.10E-01	0.2446 G	9.22E-02		3/15/2012 2:29		2074151	46DQ	MREX7
J1NLM5	SOIL BS	1.64E+00 U	UG/G	UG/G	3.68E+00	3.68E+00	1.20E+00	0.2446 G	1.20E+00		3/15/2012 2:29		2074151	46DQ	MREX7
J1NLM5	SOIL BS	5.07E+01 U	UG/G	UG/G	2.86E-01	2.86E-01	5.90E-01	0.2446 G	4.83E-01		3/15/2012 2:29		2074151	46DQ	MREX7
J1NLM5	SOIL BS	2.23E-01 U	UG/G	UG/G	9.20E-02	9.20E-02	1.60E-02	0.2446 G	1.28E-02		3/15/2012 2:29		2074151	46DQ	MREX7
J1NLM5	SOIL BS	1.42E-01 U	UG/G	UG/G	1.06E+00	1.06E+00	8.50E-03	0.2446 G	6.99E-03		3/15/2012 2:29		2074151	46DQ	MREX7
J1NLM5	SOIL BS	5.03E+00 U	UG/G	UG/G	4.09E+00	4.09E+00	7.40E-02	0.2446 G	6.08E-02		3/15/2012 2:29		2074151	46DQ	MREX7
J1NLM5	SOIL BS	2.38E+00 U	UG/G	UG/G	1.88E+00	1.88E+00	3.60E-01	0.2446 G	2.99E-01		3/15/2012 2:29		2074151	46DQ	MREX7
J1NLM5	SOIL BS	1.07E+00 U	UG/G	UG/G	3.48E+00	3.48E+00	3.50E-01	0.2446 G	2.90E-01		3/15/2012 2:29		2074151	46DQ	MREX7
J1NLM6	SOIL BS	-2.85E-01 U	UG/G	UG/G											

Client_id	Matrix	Result	Result_Cas_nbr	Parameter	Qualifier	Units	Reporting_Limits	Reporting_Limits	Uncertainty	Is_Analyzed	Decision_Level	LLCSRecAdded	Analysis_date_time	Batch_nbr	Test_Meth	Lab_sample_id
J1NLM6	SOIL	2.27E-01	7440-41-7	Beryllium	UG/G	9.09E-02	9.09E-02	1.50E-02	0.2474 G	1.23E-02			3/15/2012 2:33	2074151	46DQ	MREX8
J1NLM6	SOIL	2.12E-01 U	7440-43-9	Cadmium	UG/G	1.05E+00	1.05E+00	1.30E-02	0.2474 G	1.09E-02			3/15/2012 2:33	2074151	46DQ	MREX8
J1NLM6	SOIL	6.71E+00	7440-47-3	Chromium	UG/G	4.04E+00	4.04E+00	4.80E-01	0.2474 G	3.94E-01			3/15/2012 2:33	2074151	46DQ	MREX8
J1NLM6	SOIL	4.72E+00	7439-92-1	Lead	UG/G	1.86E+00	1.86E+00	4.70E-01	0.2474 G	3.89E-01			3/15/2012 2:33	2074151	46DQ	MREX8
J1NLM6	SOIL	8.17E-01 U	7782-49-2	Se	UG/G	3.44E+00	3.44E+00	8.30E-01	0.2474 G	6.83E-01			3/15/2012 2:33	2074151	46DQ	MREX8
INTRA-LAB BLANK	SOIL	-2.68E-05 U	7440-22-4	Ag	MG/L	1.80E-02	1.80E-02	1.30E-03	0.2526 L	1.10E-03			3/15/2012 1:12	2074151	46DQ	MRE3N1AA
INTRA-LAB BLANK	SOIL	-6.81E-04 U	7440-38-2	As	MG/L	1.80E-02	1.80E-02	3.30E-03	0.2526 L	2.70E-03			3/15/2012 1:12	2074151	46DQ	MRE3N1AA
INTRA-LAB BLANK	SOIL	2.18E-04 U	7440-39-3	Ba	MG/L	1.40E-03	1.40E-03	4.90E-05	0.2526 L	4.02E-05			3/15/2012 1:12	2074151	46DQ	MRE3N1AA
INTRA-LAB BLANK	SOIL	9.91E-05 U	7440-41-7	Beryllium	MG/L	4.50E-04	4.50E-04	6.50E-05	0.2526 L	5.32E-05			3/15/2012 1:12	2074151	46DQ	MRE3N1AA
INTRA-LAB BLANK	SOIL	4.13E-05 U	7440-43-9	Cadmium	MG/L	5.20E-03	5.20E-03	2.10E-04	0.2526 L	1.73E-04			3/15/2012 1:12	2074151	46DQ	MRE3N1AA
INTRA-LAB BLANK	SOIL	-6.43E-04 U	7440-47-3	Chromium	MG/L	2.00E-02	2.00E-02	1.60E-03	0.2526 L	1.33E-03			3/15/2012 1:12	2074151	46DQ	MRE3N1AA
INTRA-LAB BLANK	SOIL	4.46E-04 U	7439-92-1	Lead	MG/L	9.20E-03	9.20E-03	2.60E-03	0.2526 L	2.17E-03			3/15/2012 1:12	2074151	46DQ	MRE3N1AA
INTRA-LAB CHECK	SOIL	6.79E-04 U	7782-49-2	Se	MG/L	1.70E-02	1.70E-02	1.50E-03	0.2526 L	1.26E-03			3/15/2012 1:12	2074151	46DQ	MRE3N1AA
INTRA-LAB CHECK	SOIL	9.14E-01	7440-22-4	Ag	MG/L	1.80E-02	1.80E-02	1.30E-03	0.2464 L	1.34E-03	0.91	1	3/15/2012 1:16	2074151	46DQ	MRE3N1AA
INTRA-LAB CHECK	SOIL	9.59E-01	7440-38-2	As	MG/L	1.80E-02	1.80E-02	6.30E-03	0.2464 L	5.21E-03	0.96	1	3/15/2012 1:16	2074151	46DQ	MRE3N1AA
INTRA-LAB CHECK	SOIL	1.01E+00	7440-39-3	Ba	MG/L	1.40E-03	1.40E-03	1.20E-02	0.2464 L	1.03E-02	1.01	1	3/15/2012 1:16	2074151	46DQ	MRE3N1AA
INTRA-LAB CHECK	SOIL	9.45E-01	7440-41-7	Beryllium	MG/L	4.50E-04	4.50E-04	2.00E-03	0.2464 L	1.63E-03	0.94	1	3/15/2012 1:16	2074151	46DQ	MRE3N1AA
INTRA-LAB CHECK	SOIL	9.09E-01	7440-43-9	Cadmium	MG/L	5.20E-03	5.20E-03	1.70E-03	0.2464 L	1.39E-03	0.91	1	3/15/2012 1:16	2074151	46DQ	MRE3N1AA
INTRA-LAB CHECK	SOIL	9.42E-01	7440-47-3	Chromium	MG/L	2.00E-02	2.00E-02	3.80E-03	0.2464 L	3.12E-03	0.94	1	3/15/2012 1:16	2074151	46DQ	MRE3N1AA
INTRA-LAB CHECK	SOIL	9.54E-01	7439-92-1	Lead	MG/L	9.20E-03	9.20E-03	7.20E-03	0.2464 L	5.90E-03	0.95	1	3/15/2012 1:16	2074151	46DQ	MRE3N1AA
INTRA-LAB CHECK	SOIL	8.66E-01	7782-49-2	Se	MG/L	1.70E-02	1.70E-02	6.50E-03	0.2464 L	5.31E-03	0.87	1	3/15/2012 1:16	2074151	46DQ	MRE3N1AA
J1NMC0 DUP	SOIL	-3.59E-01 U	7440-22-4	Ag	UG/G	3.57E+00	3.57E+00	9.00E-02	0.2521 G	7.39E-02			3/15/2012 1:50	2074151	46DQ	MREX01A0
J1NMC0 DUP	SOIL	-8.44E-01 U	7440-38-2	As	UG/G	3.57E+00	3.57E+00	7.30E-01	0.2521 G	6.01E-01			3/15/2012 1:50	2074151	46DQ	MREX01A0
J1NMC0 DUP	SOIL	6.04E+01	7440-39-3	Ba	UG/G	2.78E-01	2.78E-01	1.60E+00	0.2521 G	1.32E+00			3/15/2012 1:50	2074151	46DQ	MREX01A0
J1NMC0 DUP	SOIL	1.89E-01	7440-41-7	Beryllium	UG/G	8.93E-02	8.93E-02	1.40E-02	0.2521 G	1.15E-02			3/15/2012 1:50	2074151	46DQ	MREX01A0
J1NMC0 DUP	SOIL	1.66E-01 U	7440-43-9	Cadmium	UG/G	1.03E+00	1.03E+00	4.80E-02	0.2521 G	3.95E-02			3/15/2012 1:50	2074151	46DQ	MREX01A0
J1NMC0 DUP	SOIL	3.54E+00 U	7440-47-3	Chromium	UG/G	3.97E+00	3.97E+00	1.80E-01	0.2521 G	1.48E-01			3/15/2012 1:50	2074151	46DQ	MREX01A0
J1NMC0 DUP	SOIL	1.23E+00 U	7439-92-1	Lead	UG/G	1.82E+00	1.82E+00	8.80E-02	0.2521 G	7.24E-02			3/15/2012 1:50	2074151	46DQ	MREX01A0
J1NMC0 DUP	SOIL	1.05E+00 U	7782-49-2	Se	UG/G	3.37E+00	3.37E+00	3.40E-01	0.2521 G	2.79E-01			3/15/2012 1:50	2074151	46DQ	MREX01A0
J1NMC0	SOIL	1.80E+02	7440-22-4	Ag	% REC	3.64E+00	3.64E+00	3.00E+00	0.2473 L	2.48E+00	0.89	202.2	3/15/2012 1:40	2074151	46DQ	MREX01A0
J1NMC0	SOIL	1.89E+02	7440-38-2	As	% REC	3.64E+00	3.64E+00	5.80E+00	0.2473 L	4.77E+00	0.93	202.2	3/15/2012 1:40	2074151	46DQ	MREX01A0
J1NMC0	SOIL	2.06E+02	7440-39-3	Ba	% REC	2.83E-01	2.83E-01	6.10E+00	0.2473 L	5.03E+00	1.02	202.2	3/15/2012 1:40	2074151	46DQ	MREX01A0
J1NMC0	SOIL	1.88E+02	7440-41-7	Beryllium	% REC	9.10E-02	9.10E-02	5.10E+00	0.2473 L	4.17E+00	0.93	202.2	3/15/2012 1:40	2074151	46DQ	MREX01A0
J1NMC0	SOIL	1.79E+02	7440-43-9	Cadmium	% REC	1.05E+00	1.05E+00	3.50E+00	0.2473 L	2.89E+00	0.89	202.2	3/15/2012 1:40	2074151	46DQ	MREX01A0
J1NMC0	SOIL	1.84E+02	7440-47-3	Chromium	% REC	4.04E+00	4.04E+00	4.50E+00	0.2473 L	3.74E+00	0.91	202.2	3/15/2012 1:40	2074151	46DQ	MREX01A0
J1NMC0	SOIL	1.82E+02	7439-92-1	Lead	% REC	1.86E+00	1.86E+00	5.50E+00	0.2473 L	4.50E+00	0.9	202.2	3/15/2012 1:40	2074151	46DQ	MREX01A0
J1NMC0	SOIL	1.71E+02	7782-49-2	Se	% REC	3.44E+00	3.44E+00	3.40E+00	0.2464 L	2.80E+00	0.84	202.2	3/15/2012 1:40	2074151	46DQ	MREX01A0
J1NMC0	SOIL	1.79E+02	7440-22-4	Ag	% REC	3.65E+00	3.65E+00	1.50E+00	0.2464 L	1.22E+00	0.88	202.9	3/15/2012 1:46	2074151	46DQ	MREX01A0
J1NMC0	SOIL	1.88E+02	7440-38-2	As	% REC	3.65E+00	3.65E+00	5.60E-01	0.2464 L	4.60E-01	0.93	202.9	3/15/2012 1:46	2074151	46DQ	MREX01A0
J1NMC0	SOIL	2.11E+02	7440-39-3	Ba	% REC	2.84E-01	2.84E-01	1.30E+00	0.2464 L	1.06E+00	1.04	202.9	3/15/2012 1:46	2074151	46DQ	MREX01A0
J1NMC0	SOIL	1.88E+02	7440-41-7	Beryllium	% REC	9.13E-02	9.13E-02	2.00E+00	0.2464 L	1.64E+00	0.92	202.9	3/15/2012 1:46	2074151	46DQ	MREX01A0
J1NMC0	SOIL	1.79E+02	7440-43-9	Cadmium	% REC	1.06E+00	1.06E+00	4.50E-01	0.2464 L	3.74E-01	0.88	202.9	3/15/2012 1:46	2074151	46DQ	MREX01A0
J1NMC0	SOIL	1.84E+02	7440-47-3	Chromium	% REC	4.06E+00	4.06E+00	1.30E+00	0.2464 L	1.08E+00	0.91	202.9	3/15/2012 1:46	2074151	46DQ	MREX01A0
J1NMC0	SOIL	1.87E+02	7439-92-1	Lead	% REC	1.87E+00	1.87E+00	1.70E+00	0.2464 L	1.39E+00	0.9	202.9	3/15/2012 1:46	2074151	46DQ	MREX01A0
J1NMC0	SOIL	1.70E+02	7782-49-2	Se	% REC	3.45E+00	3.45E+00	2.80E+00	0.2464 L	2.33E+00	0.84	202.9	3/15/2012 1:46	2074151	46DQ	MREX01A0

**Richland Laboratory
Data Review Check List
Hexavalent Chromium**

Batch Number(s):	2073041	Lab Sample Numbers or SDG:	J01444	
Method/Test/Parameter: Cr+6 <input type="checkbox"/> RL-WC-003(Aqueous) <input checked="" type="checkbox"/> RL-WC-004(Solid)				
Review Item	Yes (✓)	No (✓)	N/A (✓)	2 nd 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 85-115%?	✓			✓
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:

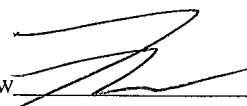
Analyst H. Rahavi Date 3-13-12 2nd Review  Date 3/13/12

**Richland Laboratory
Data Review Check List
Hexavalent Chromium**

Batch Number(s):	2074041	Lab Sample Numbers or SDG:	J01444	
Method/Test/Parameter: Cr+6 <input type="checkbox"/> RL-WC-003(Aqueous) <input checked="" type="checkbox"/> RL-WC-004(Solid)				
Review Item	Yes (✓)	No (✓)	N/A (✓)	2 nd 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 85-115%?	✓			✓
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. Rahavi

Date 3-14-12 2nd Review 

Date 3/14/12

**Richland Laboratory
Data Review Check List
Hexavalent Chromium**

Batch Number(s):	2075031	Lab Sample Numbers or SDG:	J01444	
Method/Test/Parameter: Cr+6 <input type="checkbox"/> RL-WC-003(Aqueous) <input checked="" type="checkbox"/> RL-WC-004(Solid)				
Review Item	Yes (✓)	No (✓)	N/A (✓)	2 nd 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 85-115%?	✓			✓
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. Rahavi

Date 3/15/12 2nd Review

[Signature] Date 3/15/12

Sample Check-in List

Date/Time Received: 3/12/12 @ 1525 Container GM Screen Result: (Airlock) .03 Initials [LV]
 Sample GM Screen Result (Sample Receiving) 104 Initials [LV]

Client: WCH SDG #: JD1441 NA [] SAF #: RC-074 NA []

Lot Number: J2C120457

Chain of Custody # RC-074-377

Shipping Container ID: Hand Delivery NA [LV] Air Bill Number: _____ NA [LV]

Samples received inside shipping container/cooler/box Yes [LV] 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 [LV]

2. Custody Seals dated and signed? Yes [] No [] No Custody Seal [LV]

3. Cooler temperature: 3 °C on ice NA [LV]

4. Vermiculite/packing materials is NA [] Wet [] Dry [LV]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [LV] No []

6. Number of samples received (Each sample may contain multiple bottles): 3

7. Containers received: 6 x 125 ml/p

8. Sample holding times exceeded? NA [] Yes [] No [LV]

9. Samples have:
 _____ tape _____ hazard labels
 _____ custody seals [LV] appropriate sample labels

10. Matrix:
LV A (FLT, Wipe, Solid, Soil) _____ I (Water)
 _____ S (Air, Niosh 7400) _____ T (Biological, Ni-63)

11. Samples:
LV are in good condition _____ are leaking
 _____ are broken _____ have air bubbles (Only for samples requiring no head space)
 _____ Other _____

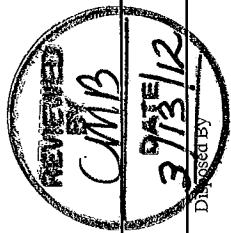
12. Sample pH appropriate for analysis requested Yes [] No [] NA [LV]
 (If acidification is necessary, then document sample ID, initial pH, amount of HNO₃ added and pH after addition on table overleaf)

RPL ID # of preservative used : _____

13. Were any anomalies identified in sample receipt? Yes [] No [LV]

14. Description of anomalies (include sample numbers): NA [LV]

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-074-379	Page 1 of 1
Collector Q Stowe	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH	Price Code 8L	Data Turnaround 21 Days 24 HRS D 3-13-12		
Protect Designation 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location 100-D-30 Exc- Tier 2 Stained Soils (ACL EZ SPA)		SAF No. RC-074	Method of Shipment Hand Deliver			
Ice Chest No. N/A	Field Logbook No. EL-1607-13	COA R00D302000		Bill of Lading/Air Bill No. N/A			
Shipped To TestAmerica Incorporated, Richland	Offsite Property No. N/A						
POSSIBLE SAMPLE HAZARDS/REMARKS							
None							
Special Handling and/or Storage Cool 4 Deg C SDG # J01444 LOT # J2C130478 Report to 3/14/12							
SAMPLE ANALYSIS							
Sample No.	Matrix *	Sample Date	Sample Time	Preservation	Cool 4C	Cool 4C	None
J1NLN0 MRD5D	SOIL	3-13-12	1015		G/P		
J1NLN1 MRD5E	SOIL	3-13-12	1020		G/P		
J1NLN2 MRD5F	SOIL	3-13-12	1035		1		
J1NLN3 MRD5G	SOIL	3-13-12	1030		125mL		
J1NLN4 MRD5H	SOIL	3-13-12	1025		125mL		
See Item (1) in Special Instructions.							
See Item (2) in Special Instructions.							
Chromium Hex - 7196 - Quick Turn (Hexavalent Chromium)							
3-13-12							
SIGNATURES							
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time				
Quincy Stowe	3-13-12	JV Fuller	3-13-12				
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time				
JV Fuller	3-13-12	A-Freier	3-13-12				
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time				
A-Freier	3-13-12	Lucas	3-13-12				
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				
LABORATORY SECTION							
Received By							
Disposal Method							
FINAL SAMPLE DISPOSITION							
Date/Time							
Date/Time							



Sample Check-in List

Date/Time Received: 3/13/12 @ 1620 Container GM Screen Result: (Airlock) 04 Initials [LV]
 Sample GM Screen Result (Sample Receiving) 04 Initials [LV]

Client: WCH SDG #: J01444 NA [] SAF #: RL-074 NA []

Lot Number: J2L130478

Chain of Custody # RL-074-379

Shipping Container ID: Hand Delivery NA [LV] Air Bill Number: _____ NA [LV]

Samples received inside shipping container/cooler/box Yes [LV] 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 [LV]
2. Custody Seals dated and signed? Yes [] No [] No Custody Seal [LV]
3. Cooler temperature: 9 °C on ICE NA []
4. Vermiculite/packing materials is NA [] Wet [] Dry [LV]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [LV] No []
6. Number of samples received (Each sample may contain multiple bottles): 5
7. Containers received: 10X 125p

8. Sample holding times exceeded? NA [] Yes [] No [LV]

9. Samples have:
 _____ tape _____ hazard labels
 _____ custody seals [LV] appropriate sample labels


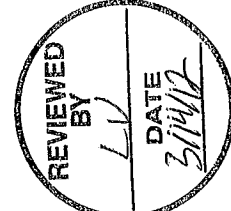
10. Matrix:
[LV] A (FLT, Wipe, Solid, Soil) _____ I (Water)
 _____ S (Air, Niosh 7400) _____ T (Biological, Ni-63)

11. Samples:
[LV] 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 [LV]
 (If acidification is necessary, then document sample ID, initial pH, amount of HNO₃ added and pH after addition on table overleaf)
 RPL ID # of preservative used : _____

13. Were any anomalies identified in sample receipt? Yes [] No [LV]

14. Description of anomalies (include sample numbers): NA [LV]

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-074-378	Page 1 of 2
Collector Q Stowe	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH	Price Code 8L	Data Turnaround 21 Days 24 HRS		
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location 100-D-30 Excavation Layback- BCL SPA	Field Logbook No. EL-1607-13	COA R00D302000	Method of Shipment Hand Deliver			
Ice Chest No. N/A	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A					
Shipped To TestAmerica Incorporated, Richland							
POSSIBLE SAMPLE HAZARDS/REMARKS							
None							
Special Handling and/or Storage Cool 4 Deg C							
							
<p>J2C140460</p> <p>301444</p> <p>Dec 3-15-12</p>							
Sample No.	Matrix *	Sample Date	Sample Time	Preservation	Cool 4C	Cool 4C	Matrix *
J1NMC0 MLEX0	SOIL	3-14-12	1210	Cool 4C	G/P	X	S=Soil
J1NMC1 MLEX1	SOIL	3-14-12	1215	Cool 4C	G/P	X	SP=Sediment
J1NMC2 MLEX2	SOIL	3-14-12	1220	Cool 4C	G/P	X	SO=Solid
J1NMC3 MLEX3	SOIL	3-14-12	1225	Cool 4C	G/P	X	SH=Sludge
J1NMC4 MLEX4	SOIL	3-14-12	1230	Cool 4C	G/P	X	W=Water
See item (1) in Special Instructions. (Hexavalent Chromium)							
SPECIAL INSTRUCTIONS (1) Metals by ICP - 6010 - Quick Turn (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver)							
							
CHAIN OF POSSESSION		Sign/Print Names		Date/Time		Date/Time	
Relinquished By/Removed From Quincy Stowe	Date/Time 3/14/12	Received By/Stored In Dwaine...	Date/Time 3-14-12				
Relinquished By/Removed From Dwaine...	Date/Time 3-14-12 1625	Received By/Stored In Bing...	Date/Time 3-14-12 1625				
Relinquished By/Removed From CMM	Date/Time 3-14-12 1050	Received By/Stored In S. B...	Date/Time 3-14-12 1650				
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				
LABORATORY SECTION	Received By	Title		Date/Time			
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By		Date/Time			

Sample No.	Matrix *	Sample Date	Sample Time	Preservation	Cool 4C	Cool 4C	See item (1) in Special Instructions.
J1NMC5 MLEXS	SOIL	3-14-12	1235	G/P	G/P	X	Chromium Hex - 7196 - Quick Turn (Hexavalent Chromium)
J1NMC6 MLEXL	SOIL	3-14-12	1240	1	1	X	
J1NMC7 3-14-12	SOIL			125mL	125mL	X	

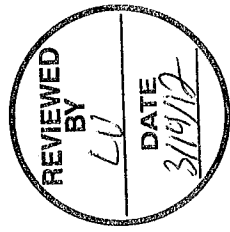
SPECIAL INSTRUCTIONS
 (1) Metals by ICP - 6010 - Quick Turn (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver)



Chain of Possession	Sign/Print Names	Date/Time
Relinquished By/Removed From	Received By/Stored In	Date/Time
Relinquished By/Removed From	Received By/Stored In	Date/Time
Relinquished By/Removed From	Received By/Stored In	Date/Time
Relinquished By/Removed From	Received By/Stored In	Date/Time
Relinquished By/Removed From	Received By/Stored In	Date/Time
Relinquished By/Removed From	Received By/Stored In	Date/Time
Relinquished By/Removed From	Received By/Stored In	Date/Time

LABORATORY SECTION Received By Title

FINAL SAMPLE DISPOSITION Disposal Method Disposed By Date/Time

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-074-380		Page 1 of 1	
Collector Q Stowe	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH	Price Code 8L	Data Turnaround 21 Days - 24 HRS				
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location 100-D-30 Exc- 10-20' bgs layback- non-EZ ACL SPA	Field Logbook No. EL-1607-13	SAF No. RC-074	Method of Shipment Hand Deliver					
Ice Chest No. N/A	COA R00D302000	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A						
Shipped To TestAmerica Incorporated, Richland									
POSSIBLE SAMPLE HAZARDS/REMARKS									
None									
Special Handling and/or Storage Cool 4 Deg C									
JAC140460									
J014444									
Due 3-15-12									
SAMPLE ANALYSIS									
Sample No.	Matrix *	Sample Date	Sample Time	Preservation	Cool 4C	Cool 4C			
J1NLM5 MRETX	SOIL	3-14-12	1250	G/P	G/P				
J1NLM6 MRETX	SOIL	3-14-12	1255	No. of Container(s) 1	1				
				Volume 125mL	125mL				
				See item (*) in Special Instructions.	Chromium Hex - 7196 - Quick Turn (Hexavalent Chromium)				
SIGNATURES									
Reinquired By/Removed From		Date/Time	Received By/Stored In	Date/Time					
Quincy Stowe		3/14/12	Dwoolery	3-14-12					
Reinquired By/Removed From		Date/Time	Received By/Stored In	Date/Time					
Dwoolery		3-14-12 1625	Received By/Stored In	3-14-12 1625					
Reinquired By/Removed From		Date/Time	Received By/Stored In	Date/Time					
MMA NCH		3-14-12 1650	Received By/Stored In	3-14-12 1650					
Reinquired By/Removed From		Date/Time	Received By/Stored In	Date/Time					
Reinquired By/Removed From		Date/Time	Received By/Stored In	Date/Time					
Reinquired By/Removed From		Date/Time	Received By/Stored In	Date/Time					
Reinquired 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}									
									
LABORATORY SECTION		Received By		Title		Date/Time			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time			

Sample Check-in List

Date/Time Received: 3/14/12 @ 1650 Container GM Screen Result: (Airlock) 06 Initials [LV]
 Sample GM Screen Result (Sample Receiving) 04 Initials [LV]

Client: LCH SDG #: 501444 NA [] SAF #: RL-074 NA []

Lot Number: 52C140460

Chain of Custody # RL-074-378;380

Shipping Container ID: Hand Delivery NA [LV] Air Bill Number: _____ NA [LV]

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: 7 °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): 9
- 7. Containers received: LV 3/14/12
4 18 x 125 mlp

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 HNO₃ added and pH after addition on table overleaf)
 RPL ID # of preservative used : _____

13. Were any anomalies identified in sample receipt? Yes [] No

14. Description of anomalies (include sample numbers): NA

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

16. Additional Information: _____

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

Sample Custodian: [Signature] Date: 3/14/12

Client Informed on _____ by _____ Person contacted _____

No action necessary; process as is

Project Manager: [Signature] Date 3/15/12

SAMPLE ID	Initial pH	Acid Amt	Final pH	SAMPLE ID	Initial pH	Acid Amt	Final pH
<i>TAUR</i>				<i>3/14/12</i>			
<i>[Signature]</i>				<i>[Signature]</i>			

JJC 1404100

[Signature] 3/15/12

3/13/2012 9:12:57 AM

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 #:

AnalyteDueDate: 03/13/2012

5L CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 2073041 SOIL

PM, Quote: RW2, 88144

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

mg/kg

Prep Tech:

Count On | Off
(24hr) Circle

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	CR Analyst, Init/Date	Comments:
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1 MRDFQ-1-AC

J2C120457-1-SAMP



03/12/2012 13:05

AmtRec: 2X125P

#Containers: 2

Scr:

Alpha:

Beta:

2 MRDFQ-1-CG-S

J2C120457-1-MS



03/12/2012 13:05

AmtRec: 2X125P

#Containers: 2

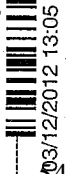
Scr:

Alpha:

Beta:

3 MRDFQ-1-CH-X

J2C120457-1-DUP



03/12/2012 13:05

AmtRec: 2X125P

#Containers: 2

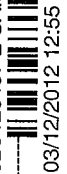
Scr:

Alpha:

Beta:

4 MRDFR-1-AC

J2C120457-2-SAMP



03/12/2012 12:55

AmtRec: 2X125P

#Containers: 2

Scr:

Alpha:

Beta:

5 MRDF2-1-AC

J2C120457-3-SAMP



03/12/2012 12:45

AmtRec: 2X125P

#Containers: 2

Scr:

Alpha:

Beta:

6 MRDKW-1-AA-B

J2C130000-41-BLK



03/13/2012 09:12

AmtRec:

#Containers: 1

Scr:

Alpha:

Beta:

7 MRDKW-1-AC-C

J2C130000-41-LCS



03/13/2012 09:12

AmtRec:

#Containers: 1

Scr:

Alpha:

Beta:

TestAmerica
Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1

ISV - Insufficient Volume for Analysis

WO Cnt: 7

ICOC v4.8.49

3/13/2012 9:12:57 AM

Sample Preparation/Analysis

Balance Id:

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

Pipet #:

Analyte Due Date: 03/13/2012

Sep1 DT/Tm Tech:

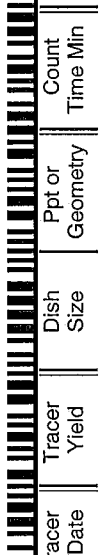
Batch: 2073041

mg/kg

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:
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Comments:

All Clients for Batch:

127642, Washington Closure Hanford LLC Washington Closure Hanford LLC, RW2, 88144

MRDFQIAC-SAMP Constituent List:

HEXCHROME RDL:0.1548 mg/kg LCL:80 UCL:120 RPD:20

MRDFQICG-MS Constituent List:

MRDKWIAA-BLK:

MRDKWIAA-LCS:

MRDFQIAC-SAMP Calc Info:

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

MRDFQICG-MS Calc Info:

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

MRDKWIAA-BLK:

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

MRDKWIAA-LCS:

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

Sample Preparation/Analysis

3/14/2012 8:36:24 AM
 127642, Washington Closure Hanford LLC
 Washington Closure Hanford LLC

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

AnalyteDate: 03/14/2012

Batch: 2074041 SOIL mg/kg PM, Quote: RW2, 88144

SEQ Batch, Test: None All Tests: 2073129 , 2073129 46DQ, 2074041 DWEA,

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:
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1 MRD5D-1-AC
 J2C130478-1-SAMP
 03/13/2012 10:15
 AmtRec: 2X125P #Containers: 2
 Alpha: Beta: Scr:

2 MRD5D-1-CX-S
 J2C130478-1-MS
 03/13/2012 10:15
 AmtRec: 2X125P #Containers: 2
 Alpha: Beta: Scr:

3 MRD5D-1-C0-X
 J2C130478-1-DUP
 03/13/2012 10:15
 AmtRec: 2X125P #Containers: 2
 Alpha: Beta: Scr:

4 MRD5E-1-AC
 J2C130478-2-SAMP
 03/13/2012 10:20
 AmtRec: 2X125P #Containers: 2
 Alpha: Beta: Scr:

5 MRD5F-1-AC
 J2C130478-3-SAMP
 03/13/2012 10:35
 AmtRec: 2X125P #Containers: 2
 Alpha: Beta: Scr:

6 MRD5G-1-AC
 J2C130478-4-SAMP
 03/13/2012 10:30
 AmtRec: 2X125P #Containers: 2
 Alpha: Beta: Scr:

7 MRD5H-1-AC
 J2C130478-5-SAMP
 03/13/2012 10:25
 AmtRec: 2X125P #Containers: 2
 Alpha: Beta: Scr:

3/14/2012 8:36:25 AM

Sample Preparation/Analysis

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

Balance Id:

Pipet #:

AnalyteDueDate: 03/14/2012

Sep1 DT/Tm Tech:

Batch: 2074041
mg/kg

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:
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8 MREEE-1-AA-B

J2C140000-41-BLK

03/14/2012 08:36 pd

 AmtRec: #Containers: 1

Scr:

Alpha:

Beta:

9 MREEE-1-AC-C

J2C140000-41-LCS

03/14/2012 08:36 pd

 AmtRec: #Containers: 1

Scr:

Alpha:

Beta:

Comments:

All Clients for Batch:
127642, Washington Closure Hanford LLC

Washington Closure Hanford LLC, RW2, 88144

MRD5DIAC-SAMP Constituent List:

HEXCHROME RDL:0.1548 mg/kg LCL:80 UCL:120 RPD:20

MRD5DICX-MS Constituent List:

MREEE1AA-BLK:

MREEE1AC-LCS:

MRD5DIAC-SAMP Calc Info:

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

MRD5DICX-MS Calc Info:

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

MREEE1AA-BLK:

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

MREEE1AC-LCS:

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

TestAmerica
Richland Wa.

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

Page 2

ISV - Insufficient Volume for Analysis

WO Cnt: 9

ICOC v4.8.49

3/15/2012 8:43:20 AM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Washington Closure Hanford LLC

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

AnalyteDueDate: 03/15/2012

51 CLIENT: HANFORD

Batch: 2075031 SOIL

PM, Quote: RW2, 88144

SEQ Batch, Test: None All Tests:

46DQ, 2074142, 2074151 46DQ, 2075031 DWEA,

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adij 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 MREX0-1-AC													
J2C140460-1-SAMP													
03/14/2012 12:10													
AmtRec: 2X125MLP #Containers: 2													
2 MREX0-1-CD-S													
J2C140460-1-MS													
03/14/2012 12:10													
AmtRec: 2X125MLP #Containers: 2													
3 MREX0-1-CE-X													
J2C140460-1-DUP													
03/14/2012 12:10													
AmtRec: 2X125MLP #Containers: 2													
4 MREX1-1-AC													
J2C140460-2-SAMP													
03/14/2012 12:10													
AmtRec: 2X125MLP #Containers: 2													
5 MREX2-1-AC													
J2C140460-3-SAMP													
03/14/2012 12:10													
AmtRec: 2X125MLP #Containers: 2													
6 MREX3-1-AC													
J2C140460-4-SAMP													
03/14/2012 12:10													
AmtRec: 2X125MLP #Containers: 2													
7 MREX4-1-AC													
J2C140460-5-SAMP													
03/14/2012 12:10													
AmtRec: 2X125MLP #Containers: 2													

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

3/15/2012 8:43:20 AM

Sample Preparation/Analysis

Balance Id:

127642, Washington Closure Hanford LLC
Washington Closure Hanford LLC

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

Pipet #:

AnalyteDate: 03/15/2012

Sep1 DT/Tm Tech:

Batch: 2075031 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:
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8 MREX5-1-AC

J2C140460-6-SAMP

03/14/2012 12:10
AmiRec: 2X125MLP #Containers: 2

Beta:

Alpha:

Scr:

9 MREX6-1-AC

J2C140460-7-SAMP

03/14/2012 12:10
AmiRec: 2X125MLP #Containers: 2

Beta:

Alpha:

Scr:

10 MREX7-1-AC

J2C140460-8-SAMP

03/14/2012 12:10
AmiRec: 2X125MLP #Containers: 2

Beta:

Alpha:

Scr:

11 MREX8-1-AC

J2C140460-9-SAMP

03/14/2012 12:10
AmiRec: 2X125MLP #Containers: 2

Beta:

Alpha:

Scr:

12 MRE5Q-1-AA-B

J2C150000-31-BLK

03/15/2012 08:43 pd
AmiRec: #Containers: 1

Beta:

Alpha:

Scr:

13 MRE5Q-1-AC-C

J2C150000-31-LCS

03/15/2012 08:43 pd
AmiRec: #Containers: 1

Beta:

Alpha:

Scr:

3/15/2012 8:43:21 AM

Sample Preparation/Analysis

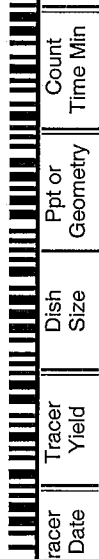
DW Alkaline Digestion by method 3060A
EA Chromium, Hexavalent (7196A)
5I CLIENT: HANFORD

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

AnalyDueDate: 03/15/2012

Batch: 2075031 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:
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Comments:

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

MREX01AC-SAMP Constituent List:
HEXCHROME RDL:0.1548 mg/kg UCL:120 RPD:20
MREX01CD-MS Constituent List:

MRE5Q1AA-BLK:
MRE5Q1AC-LCS:

MREX01AC-SAMP Calc Info:	Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
MREX01CD-MS Calc Info:	Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
MRE5Q1AA-BLK:	Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
MRE5Q1AC-LCS:	Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B