

Analytical Data Package Prepared For
CH2M Hill Plateau Remediation

Radiochemical Analysis By
TestAmerica

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

Assigned Laboratory Code: TARK

Data Package Contains _____ Pages

Report No.: 56014

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.
W06576	F13-017	B2PLK0	J3F210422-01	M062R1AA	9M062R10	3172064
		B2PLK4	J3F210422-11	M062T1AA	9M062T10	3172064



Certificate of Analysis

TestAmerica Laboratories, Inc.

CH2M Hill Plateau Remediation Company
 P.O. Box 1600
 Mail Stop – R3-60
 Richland, WA 99352

July 2, 2013

Attention: Scot Fitzgerald

SAF Number : F13-017
 Date SDG Closed : June 21, 2013
 Number of Samples : Two (2)
 Sample Type : Other Liquid
 SDG Number : W06576
 Data Deliverable : 15 Day / 15 Day Summary

CASE NARRATIVE

I. Introduction

On June 21, 2013, two other liquid samples were received at TestAmerica (TARL). Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the CH2M specific ID:

<u>CH2M ID#</u>	<u>TARL ID#</u>	<u>MATRIX</u>	<u>DATE OF RECEIPT</u>
B2PLK0	M062R	Other Liquid	6/21/13
B2PLK4	M062T	Other Liquid	6/21/13

II. Sample Receipt

The samples were received in good condition. Samples were in a 0.1 N KOH solution. The sample technician will process as necessary. TARL was asked to include the total sample size in the final report. No other 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.

CH2M Hill Plateau Remediation Company
July 2, 2013

The requested analyses were:

Chemical Analysis
Hexavalent Chromium by EPA method 7196A

IV. Quality Control

The analytical results for each analysis performed includes a minimum of one laboratory control sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section.

QC and sample results are reported in the same units.

V. Comments

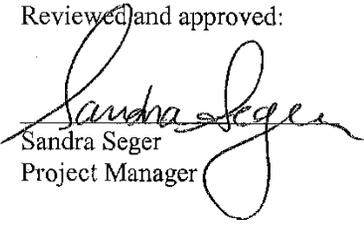
Chemical Analysis
Hexavalent Chromium by EPA method 7196A

Sample B2PLK0 had a total sample size of 400 ml. Sample B2PLK4 had a total sample size of 500 ml.

The LCS, batch blank, samples, sample duplicate (B2PLK0), sample matrix spike (B2PLK08), and matrix spike duplicate (B2PLK0) 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:


Sandra Seger
Project Manager

1. The data package has the following issues:

- a) The sample analysis date is after the sample received date.

Resolution: *Provide correction.*

Lab Response: **Corrected analysis date and resubmitted EDD on 7/22/13.**

Please correct the issues and resubmit the electronic data package.



Hexavalent Chromium - Water

Analyst: B. Clark		Batch # 3172064																																					
Start Date:	6/21/2013	SDG #	W06576																																				
Start Time:	13:45	Matrix	Water																																				
End Date:	6/21/2013	SOP Information RL-WC-003 Revision 4																																					
End Time:	14:17																																						
Analyst Signature:	<i>B. Clark</i>	Instrument Information Instrument: Hach DR2010 Wavelength: 540																																					
Date:	6/21/2013																																						
Calibration Curve Information																																							
Amount (mL)	Conc. (mg/L)	ABS.																																					
Blank	0.000	0.000																																					
Std. 1	0.100	0.048																																					
Std. 2	0.500	0.238																																					
Std. 3	0.750	0.356																																					
Std. 4	1.500	0.713																																					
Std. 5	2.000	0.950																																					
Standard Volume (mL):		95.000																																					
Date of Curve:		6/21/2013																																					
R Squared		1.0000																																					
2nd ^o Coeff (a)		0.0235																																					
1st ^o Coeff (b)		0.4663																																					
Constant (c)		0.0001																																					
Intercept		-0.0002																																					
MDL (mg/L)		0.008																																					
<table border="1"> <thead> <tr> <th>Dilution ID #</th> <th>ICV/CCV Information:</th> <th>LCS Information:</th> <th>Matrix Spike Information:</th> </tr> </thead> <tbody> <tr> <td></td> <td>Cr-13-00226</td> <td>Cr-13-00225</td> <td>Cr-13-00225</td> </tr> <tr> <td>Prep Date:</td> <td>06/21/13</td> <td>06/21/13</td> <td>06/21/13</td> </tr> <tr> <td>Concentration (mg/L)</td> <td>50</td> <td>50</td> <td>50</td> </tr> <tr> <td>Expiration Date:</td> <td>06/22/13</td> <td>06/22/13</td> <td>06/22/13</td> </tr> <tr> <td>Pipettor(s)</td> <td>70, 190</td> <td>190</td> <td>190</td> </tr> <tr> <td>Volume Used (mL)</td> <td>1.000</td> <td>1.00</td> <td>1.50</td> </tr> <tr> <td>Final Volume (mL)</td> <td>100.000</td> <td>100.00</td> <td>100.00</td> </tr> <tr> <td>Expected Value (mg/L)</td> <td>0.475</td> <td>0.475</td> <td>0.713</td> </tr> </tbody> </table>				Dilution ID #	ICV/CCV Information:	LCS Information:	Matrix Spike Information:		Cr-13-00226	Cr-13-00225	Cr-13-00225	Prep Date:	06/21/13	06/21/13	06/21/13	Concentration (mg/L)	50	50	50	Expiration Date:	06/22/13	06/22/13	06/22/13	Pipettor(s)	70, 190	190	190	Volume Used (mL)	1.000	1.00	1.50	Final Volume (mL)	100.000	100.00	100.00	Expected Value (mg/L)	0.475	0.475	0.713
Dilution ID #	ICV/CCV Information:	LCS Information:	Matrix Spike Information:																																				
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Expected Value (mg/L)	0.475	0.475	0.713																																				
Sample ID	Client ID	Type	Sample Volume (mL)	Final Volume (mL)	Sample ABS.	Color Blank ABS.	Corrected ABS.	Dilution Factor	Curve Conc. (mg/L)	Expected (mg/L)	% Rec. / RPD	Final Reported Conc. (mg/L)	Qualifier																										
n/a	n/a	ICV	95.000	100.000	0.973		0.973	1	0.4761	0.4750	100.22%*	0.476	U																										
n/a	n/a	ICB	95.000	100.000	0.001		0.001	1	0.0006			<MDL*	U																										
n/a	n/a	CCV	95.000	100.000	0.963		0.963	1	0.4709	0.4750	98.15%*	0.471	U																										
n/a	n/a	CCB	95.000	100.000	0.002		0.002	1	0.0010			<MDL*	U																										
M06231AA	n/a	BLK	95.000	100.000	0.002		0.002	1	0.0010			<MDL*	U																										
M06231AC	n/a	LCS	95.000	100.000	0.965		0.965	1	0.4720	0.4750	99.36%*	0.472	U																										
M062R1AA	B2PLK0'	Sample	95.000	100.000	0.004		0.004	1	0.0020			<MDL*	U																										
M062R1AC-S	B2PLK0'	MS*	95.000	100.000	1.476		1.476	1	0.7396	0.7500	98.61%	0.740	U																										
M062R1AD-D	B2PLK0'	MSD*	95.000	100.000	1.491		1.491	1	0.7476	0.7500	99.88%*	0.748	U																										
M062R1AE-X	B2PLK0'	Duplicate	95.000	100.000	0.005		0.005	1	0.0024			<MDL*	U																										
M062T1AA	B2PLK4'	Sample	95.000	100.000	0.002		0.002	1	0.0010			<MDL*	U																										
n/a	n/a	CCV	95.000	100.000	0.966		0.966	1	0.4725	0.4750	99.47%*	0.472	U																										
n/a	n/a	CCB	95.000	100.000	0.004		0.004	1	0.0020			<MDL*	U																										

*If the parent sample is above the MDL, the Final Reported Conc. (mg/L) for the MS and MSD is corrected for the parent sample. CG-223 Rev. 6/1/2013



Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s):	3172064	Lab Sample Numbers or SDG:	W06576	
Method/Test/Parameter: Cr+6 <input checked="" type="checkbox"/> RL-WC-003(Aqueous) <input 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 75-125%?			✓	✓
4. Sample and Duplicate within 20% (aqueous) or 35% (solid) RPD?	✓			✓
5. MS or MS/MSD recoveries within 85-115% (aqueous) or 75-125% (solid)?	✓			✓
6. On MS failure, PDMS within 85-115%?			✓	✓
E. Other				
1. Are all nonconformances included and noted?			✓	✓
2. Is the correct date and time of analysis shown?	✓			✓
3. Did the analyst sign and date the front page of the analytical run?	✓			✓
4. Correct methodology used?	✓			✓
5. Transcriptions checked?	✓			✓
6. Calculations checked at minimum frequency?	✓			✓
7. Units checked?	✓			✓

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

Analyst Beth Vail Date 6/21/13^{2nd} Review [Signature] Date 6/24/13

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F13-017-018	PAGE 1 OF 1
COLLECTOR F. HALL	COMPANY CONTACT EVANS, RT	TELEPHONE NO. 373-7924	PROJECT COORDINATOR EVANS, RT	PRICE CODE 9C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-T Main Stack IMS-CR6-R2-1	PROJECT DESIGNATION 200W Pump & Treat - Stack Emission Sampling - Chem		SAF NO. F13-017	AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO. GWS-018	FIELD LOGBOOK NO. HNF-N-507-21	ACTUAL SAMPLE DEPTH N/A	COA 303110ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO Waste Sampling & Characterization TARTL	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX* A=Air DL=Drum L=Liquid S=Solids O=Oil S=Sediment T=Tissue V=Vegetation W=Water WT=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS **Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.**	PRESERVATION Cool-4C	HOLDING TIME 24 Hours	TYPE OF CONTAINER G/P	NO. OF CONTAINER(S) 1	VOLUME 500ml	SAMPLE ANALYSIS 756_C66: COMMON;
SPECIAL HANDLING AND/OR STORAGE							
SAMPLE NO. B2PLK0	MATRIX* OTHER LIQUID	SAMPLE DATE 6/21/13	SAMPLE TIME 1020				<input checked="" type="checkbox"/>

*S3fa104aa
w06514
Due 7/8/13
m06ak*

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM F. HALL	DATE/TIME 6/21/13 1040	RECEIVED BY/STORED IN APM/Savage	DATE/TIME 6-21-13 1040	** The CACN for WSCF Analytical is 403311.0** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-13-064	
RELINQUISHED BY/REMOVED FROM APM/Savage	DATE/TIME 6-21-13 1120	RECEIVED BY/STORED IN S. BOLL	DATE/TIME 6-21-13 1120	TRVL-13-064	
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		
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	

CH2MHILL Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F13-017-022	PAGE 1 OF 1
COLLECTOR F. HALL	COMPANY CONTACT EVANS, RT	TELEPHONE NO. 373-7924	PROJECT COORDINATOR EVANS, RT	PRICE CODE 9C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-T_Main Stack_1MS-CR6-FB-I	PROJECT DESIGNATION 200W Pump & Treat - Stack Emission Sampling - Chem	FIELD LOGBOOK NO. HWF-N-507-21	SAF NO. F13-017	AIR QUALITY <input type="checkbox"/>	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO. GWS-018	ACTUAL SAMPLE DEPTH N/A	OFFSITE PROPERTY NO. N/A	COA 303110ES10	ORIGINAL	
SHIPPED TO Waste Sampling & Characterization TARTL	BILL OF LADING/AIR BILL NO. N/A				

MATRIX*	PRESERVATION	Cool-4C
A=Air	HOLDING TIME	24 Hours
DJ=Drum	TYPE OF CONTAINER	G/P
Liquids	NO. OF CONTAINER(S)	1
DS=Drum	VOLUME	500mL
Solids	SAMPLE ANALYSIS	7196, CR6: COMMON;
L=Liquid	SAMPLE DATE	6/21/13
O=Oil	SAMPLE TIME	1020
S=Soil	OTHER LIQUID	<input checked="" type="checkbox"/>
SE=Sediment		
T=Tissue		
V=Vegetation		
W=Water		
WT=Wipe		
X=Other		

338210422
W06516
Due 7/8/13
MOBAT



CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	** The CACN for WSCF Analytical is 403311. <input type="checkbox"/> ** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-13-064	
F. HALL	6/21/13 1040	ARMSTRONG	6-21-13 1040	TRVL-13-064	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
ARMSTRONG	6-21-13 1100	J. B. [Signature]	6-21-13 1120		
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		
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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 6-21-13 / 1120 Container GM Screen Result: (Airlock) 80 cpm Initials []
Sample GM Screen Result (Sample Receiving) 80 cpm Initials []

Client: B6-21-13 PLW FLH SDG #: W06516 SAF #: F13-017 NA []

Lot Number: J3F210422

Chain of Custody # F13-017-018; 022

Shipping Container ID or Air Bill Number: Mand de Civ. NA [SKS]

Samples received inside shipping container/cooler/box Yes [X] 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 [X]
2. Custody Seals dated and signed? Yes [] No [] No Custody Seal [X]
3. Cooler temperature: 2.1 C Ice NA []
4. Verniculite/packing materials is NA [X] Wet [] Dry []

- Item 5 through 16 for samples. Initial appropriate response.
5. Chain of Custody record present? Yes [X] No []
6. Number of samples received (Each sample may contain multiple bottles): 2
7. Containers received: 2 x 500 mL

- 8. Sample holding times exceeded? NA [] Yes [] No [X]
9. Samples have: tape hazard labels [X] custody seals [X] appropriate sample labels
10. Matrix: A (FLT, Wipe, Solid, Soil) [X] I (Water) S (Air, Niosh 7400) T (Biological, Ni-63)

11. Samples: [X] 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 [SKS] NA [X] SKS 6/24/13
(If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO3 added and pH after addition on table)

13. Were any anomalies identified in sample receipt? Yes [SKS] No [X] SKS 6/24/13

14. Description of anomalies (include sample numbers): NA [X] SKS 6/24/13 Samples were in 0.1M KOH.
See attached email dated 6/20/13. CR6 Lab will process as necessary.

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

16. Additional Information: n/a SKS 6/24/13 Included total sample size on
Final Report per email dated 6/21/13.

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

Sample Check-in List completed by Sample Custodian:
Signature: James East Date: 6-21-13

Client Notification needed? Yes [] No [X] Date:
By:
Person contacted:

[X] No action necessary; process as is
Project Manager: Sandra Segun Date: 6-24-13

Seger, Sandra

From: Trent, Stephen J [Stephen_J_Trent@rl.gov]

Sent: Thursday, June 20, 2013 9:39 AM

To: Seger, Sandra

Subject: Bob Evans' Cr-VI samples

Sandra,

Bob Evans wanted me to let you know that the Cr-VI samples you will be receiving from his project are dissolved in 0.1 N KOH...

Steve

6/24/2013

Seger, Sandra

From: Evans, Robert T [Robert_T_Evans@rl.gov]
Sent: Friday, June 21, 2013 2:25 PM
To: Seger, Sandra
Subject: Need Total Volume for Hex Chrome/Total Chrome
Sandra -

Would you please record/report the total volume of each sample that we sent you today that required the hex chrome and total chrome analysis.

If you have any questions, please feel free to contact me.

Thank-you,

~ Bob

Robert T. Evans
Soil & Groundwater Remediation Project
phone: 509.373.7924/ mobile: 509.430.5245



6/24/2013

Sample Preparation/Analysis									
Balance Id:			88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION						
Pipet #:			EA Chromium, Hexavalent (7196A)						
Sep1 DT/Tm Tech:			01 STANDARD TEST SET						
Sep2 DT/Tm Tech:			PM, Quote: SS, 29754						
Prep Tech:									
CR Analyst, Init/Date:									
Comments:									
Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	Alpha:	Beta:	
1 M062R-1-AA									
J3F210422-1-SAMP									
06/21/2013 10:20									
AmiRec: 1X500MLAG #Containers: 1									
2 M062R-1-AC-S									
J3F210422-1-MS									
06/21/2013 10:20									
AmiRec: 1X500MLAG #Containers: 1									
3 M062R-1-AD-D									
J3F210422-1-MSD									
06/21/2013 10:20									
AmiRec: 1X500MLAG #Containers: 1									
4 M062R-1-AE-X									
J3F210422-1-DUP									
06/21/2013 10:20									
AmiRec: 1X500MLAG #Containers: 1									
5 M062T-1-AA									
J3F210422-2-SAMP									
06/21/2013 10:20									
AmiRec: 1X500MLAG #Containers: 1									
6 M0623-1-AA-B									
J3F210000-64-BLK									
06/21/2013 13:12 pd									
AmiRec: #Containers: 1									
7 M0623-1-AC-C									
J3F210000-64-LCS									
06/21/2013 13:12 pd									
AmiRec: #Containers: 1									
TestAmerica Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1									
Richland Wa. pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added									
ISV - Insufficient Volume for Analysis									
WO Cnt: 7									
ICOC v4.8.49									

6/21/2013 1:12:15 PM **Sample Preparation/Analysis** Balance Id: _____ Pipet #: _____

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
 EA Chromium, Hexavalent (7196A)
 01 STANDARD TEST SET

AnalyteDueDate: 07/05/2013
 Batch: 3172064
 SEQ Batch, Test: None

ug/L

Work Order Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
Comments:								
All Clients for Batch: 108302, CHEM Hill Plateau Remediation DOE RL Waste Management Federal Servi, SS , 29754								
M062R1AA-SAMP Constituent List:								
M062R1AC-MS Constituent List:								
M062R1AD-MSD:								
M06231AA-BLK:								
M06231AC-LCS:								
M062R1AA-SAMP Calc Info:								
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B				
M062R1AC-MS Calc Info:								
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B				
M062R1AD-MSD:								
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B				
M06231AA-BLK:								
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B				
M06231AC-LCS:								
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B				

TestAmerica Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2
 Richland Wa. pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added ISV - Insufficient Volume for Analysis

WO Cnt: 7
 ICOC v4-8.49