

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-4779-1

Client Project/Site: RFP-CBA-022 (7 DAY TAT)

For:

Westinghouse Electric Company LLC
3300 State Road P
Festus, Missouri 63028

Attn: Martin Swanson



Authorized for release by:
12/16/2013 2:42:56 PM

Ivan Vania, Project Manager II
(314)298-8566
ivan.vania@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Westinghouse Electric Company LLC
Project/Site: RFP-CBA-022 (7 DAY TAT)

TestAmerica Job ID: 160-4779-1

Job ID: 160-4779-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Westinghouse Electric Company LLC

Project: RFP-CBA-022 (7 DAY TAT)

Report Number: 160-4779-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

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

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 12/05/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 18.0 C.

TECHNETIUM-99 (ICPMS)

Samples L101001BRS00 (160-4779-1), L101002BES00 (160-4779-2), L101003BRS00 (160-4779-3), L101005BRS00 (160-4779-4), L101006BES00 (160-4779-5), L101007BRS00 (160-4779-6), L101008BES00 (160-4779-7), L101009BSS00 (160-4779-8), L101010BRS00 (160-4779-9), L101011BSQ00 (160-4779-10), L101011BSS00 (160-4779-11), L101012BRS00 (160-4779-12), L101013BSS00 (160-4779-13), L101014BRS00 (160-4779-14) and L101015BES00 (160-4779-15) were analyzed for Technetium-99 (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 12/10/2013 and 12/13/2013 and analyzed on 12/11/2013 and 12/15/2013.

No difficulties were encountered during the Tc-99 analysis. All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Case Narrative

Client: Westinghouse Electric Company LLC
Project/Site: RFP-CBA-022 (7 DAY TAT)

TestAmerica Job ID: 160-4779-1

Job ID: 160-4779-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Samples L101001BRS00 (160-4779-1), L101002BES00 (160-4779-2), L101003BRS00 (160-4779-3), L101005BRS00 (160-4779-4), L101006BES00 (160-4779-5), L101007BRS00 (160-4779-6), L101008BES00 (160-4779-7), L101009BSS00 (160-4779-8), L101010BRS00 (160-4779-9), L101011BSQ00 (160-4779-10), L101011BSS00 (160-4779-11), L101012BRS00 (160-4779-12), L101013BSS00 (160-4779-13), L101014BRS00 (160-4779-14) and L101015BES00 (160-4779-15) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 12/07/2013.

No difficulties were encountered during the % solids analysis. All quality control parameters were within the acceptance limits.

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Hematite Decommissioning Project

Procedure HDP-PR-QA-006, Chain of Custody

Revision: 3

Westinghouse Non-Proprietary Class 3

FORM HDP-PR-QA-006-1
CHAIN OF CUSTODY

Instructions: Each time the container is transferred to another organization, a person from each organization should sign the CoC. The Laboratory/End User must verify that the sample is correctly identified before the sample is released for use or analysis and send the completed CoC to HDP.

Chain of Custody ID No.	F-120513-01	Page	1/2
Project Name:	Westinghouse Electric Company		
Contact Person:	Gerald Rood		
Phone Number:	314-810-3382		
Sampler Name	Scott Jenkins		
Requested Analysis			
Total Containers			
Laboratory Name:			
TA-MO			
Laboratory Address:			
13715 Rider Trail North			
Phone No.			
314-298-8566			
Laboratory Contact Person:			
Joe Walker			
Phone No.			
708-870-8453			
Turn Around Time			
Rush (7 days)			
Remarks			

Sample ID	Date	Time	Matrix	Comp (C) or Grab (G)	Gamma Spec	Isotopic Uranium	Tc-99	Gamma Spec (21 day ingrowth for Ra-226)												
L101001BRS00	12/4/2013	10:15	S	C			X	X											1	LSA-10-10 Sys. Samples
L101002BES00	12/4/2013	10:20	S	C			X	X											1	LSA-10-10 Sys. Samples
L101003BRS00	12/4/2013	10:45	S	C			X	X											1	LSA-10-10 Sys. Samples
L101005BRS00	12/4/2013	11:00	S	C			X	X											1	LSA-10-10 Sys. Samples
L101006BES00	12/4/2013	11:05	S	C			X	X											1	LSA-10-10 Sys. Samples
L101007BRS00	12/4/2013	13:55	S	C			X	X											1	LSA-10-10 Sys. Samples
L101008BES00	12/4/2013	14:00	S	C			X	X											1	LSA-10-10 Sys. Samples
L101009BSS00	12/4/2013	14:10	S	C			X	X											1	LSA-10-10 Sys. Samples
L101010BRS00	12/4/2013	14:25	S	C			X	X											1	LSA-10-10 Sys. Samples
L101011BSQ00	12/4/2013	14:45	S	C			X	X											1	LSA-10-10 QC Sample
L101011BSS00	12/4/2013	14:45	S	C			X	X											1	LSA-10-10 Sys. Samples
L101012BRS00	12/4/2013	14:55	S	C			X	X											1	LSA-10-10 Sys. Samples

Relinquished by:	Date/Time	Received by:	Date/Time	Total	Cooler Temperature:
<i>[Signature]</i>	12-5-13 1555	<i>[Signature]</i>	12-5 1555	15	4 Degrees C
Company Name:		Company Name:		Cooler ID:	Shipper and Number:
WEL		Crossroads		1205-02	
Received by:	Date/Time	Relinquished by:	Date/Time	Comments: Please analyze the samples for Tc-99 on a 7 day TAT. Please analyze the samples for gamma spec after a 21 day ingrowth period.	
		<i>[Signature]</i>	12-5 1745		
Company Name:		Company Name:		Verified By:	
		Crossroads			
Relinquished by:	Date/Time	Received by:	Date/Time	<i>[Signature]</i>	
		RM	12-5-13 1600		
Company Name:		Company Name:			
		TA			

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Hematite Decommissioning Project

Procedure HDP-PR-QA-006, Chain of Custody

Revision: 3

Westinghouse Non-Proprietary Class 3

FORM HDP-PR-QA-006-1
CHAIN OF CUSTODY

Instructions: Each time the container is transferred to another organization, a person from each organization should sign the CoC. The Laboratory/End User must verify that the sample is correctly identified before the sample is released for use or analysis and send the completed CoC to HDP.

Chain of Custody ID No. F-120513-01 Page 2/2				Requested Analysis										Laboratory Name:				
Project Name: Westinghouse Electric Company				Comp (C) or Grab (G)	Gamma Spec	Isotopic Uranium	Tc-99	Gamma Spec (21 day ingrow for Ra-226)								Total Containers	TA-MO	
Contact Person: Gerald Rood																	Laboratory Address: 13715 Rider Trail North	
Phone Number: 314-810-3382																	Phone No. 314-298-8566	
Sampler Name Scott Jenkins																	Laboratory Contact Person: Joe Walker	
				Phone No. 708-870-8453														
				Turn Around Time														
				Rush (7 days)														
				Remarks														
Sample ID	Date	Time	Matrix															
L101013BSS00	12/4/2013	15:05	S	C			X	X							1	LSA-10-10 Sys. Samples		
L101014BRS00	12/4/2013	15:15	S	C			X	X							1	LSA-10-10 Sys. Samples		
L101015BES00	12/4/2013	9:45	S	C			X	X							1	LSA-10-10 Sys. Samples		
Relinquished by: <i>[Signature]</i>		Date/Time		Received by: <i>[Signature]</i>		Date/Time		Total		Cooler Temperature:								
Company Name: <i>WEL</i>		12-5-13 1555		Company Name: <i>Crossroads</i>		12-5 1555		15		4 Degrees C								
Received by:		Date/Time		Relinquished by: <i>[Signature]</i>		Date/Time		Comments: Please analyze the samples for Tc-99 on a 7 day TAT. Please analyze the samples for gamma spec after a 21 day ingrowth period.										
Company Name:		12-5-13 1755		Company Name: <i>Crossroads</i>		12-5-13 1755												
Relinquished by:		Date/Time		Received by: <i>[Signature]</i>		Date/Time		Verified By: <i>[Signature]</i>										
Company Name:		12-5-13 1800		Company Name: <i>TA</i>		12-5-13 1800												



Login Sample Receipt Checklist

Client: Westinghouse Electric Company LLC

Job Number: 160-4779-1

Login Number: 4779

List Source: TestAmerica St. Louis

List Number: 1

Creator: Daniels, Brian J

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Definitions/Glossary

Client: Westinghouse Electric Company LLC
Project/Site: RFP-CBA-022 (7 DAY TAT)

TestAmerica Job ID: 160-4779-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: Westinghouse Electric Company LLC
Project/Site: RFP-CBA-022 (7 DAY TAT)

TestAmerica Job ID: 160-4779-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS), Tc-99	SW846	TAL SL
Moisture	Percent Moisture	EPA	TAL SL
6020A	Metals (ICP/MS), Tc-99 in Activity	SW846	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Sample Summary

Client: Westinghouse Electric Company LLC
Project/Site: RFP-CBA-022 (7 DAY TAT)

TestAmerica Job ID: 160-4779-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-4779-1	L101001BRS00	Solid	12/04/13 10:15	12/05/13 18:00
160-4779-2	L101002BES00	Solid	12/04/13 10:20	12/05/13 18:00
160-4779-3	L101003BRS00	Solid	12/04/13 10:45	12/05/13 18:00
160-4779-4	L101005BRS00	Solid	12/04/13 11:00	12/05/13 18:00
160-4779-5	L101006BES00	Solid	12/04/13 11:05	12/05/13 18:00
160-4779-6	L101007BRS00	Solid	12/04/13 13:55	12/05/13 18:00
160-4779-7	L101008BES00	Solid	12/04/13 14:00	12/05/13 18:00
160-4779-8	L101009BSS00	Solid	12/04/13 14:10	12/05/13 18:00
160-4779-9	L101010BRS00	Solid	12/04/13 14:25	12/05/13 18:00
160-4779-10	L101011BSQ00	Solid	12/04/13 14:45	12/05/13 18:00
160-4779-11	L101011BSS00	Solid	12/04/13 14:45	12/05/13 18:00
160-4779-12	L101012BRS00	Solid	12/04/13 14:55	12/05/13 18:00
160-4779-13	L101013BSS00	Solid	12/04/13 15:05	12/05/13 18:00
160-4779-14	L101014BRS00	Solid	12/04/13 15:15	12/05/13 18:00
160-4779-15	L101015BES00	Solid	12/04/13 09:45	12/05/13 18:00

Client Sample Results

Client: Westinghouse Electric Company LLC
 Project/Site: RFP-CBA-022 (7 DAY TAT)

TestAmerica Job ID: 160-4779-1

Client Sample ID: L101001BRS00

Lab Sample ID: 160-4779-1

Date Collected: 12/04/13 10:15

Matrix: Solid

Date Received: 12/05/13 18:00

Percent Solids: 83.9

Method: 6020A - Metals (ICP/MS), Tc-99

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Technetium 99	ND		0.000066	0.000020	mg/Kg	☼	12/10/13 13:58	12/11/13 14:26	1

Method: 6020A - Metals (ICP/MS), Tc-99 in Activity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Technetium 99	0.239		0.0666	0.0770	1.32	0.226	pCi/g	12/10/13 13:58	12/11/13 14:26	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Re	91		30 - 110					12/10/13 13:58	12/11/13 14:26	1

Client Sample ID: L101002BES00

Lab Sample ID: 160-4779-2

Date Collected: 12/04/13 10:20

Matrix: Solid

Date Received: 12/05/13 18:00

Percent Solids: 83.5

Method: 6020A - Metals (ICP/MS), Tc-99

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Technetium 99	ND		0.000066	0.000020	mg/Kg	☼	12/10/13 13:58	12/11/13 14:38	1

Method: 6020A - Metals (ICP/MS), Tc-99 in Activity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Technetium 99	0.0714	U	0.0389	0.0432	1.31	0.224	pCi/g	12/10/13 13:58	12/11/13 14:38	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Re	91		30 - 110					12/10/13 13:58	12/11/13 14:38	1

Client Sample ID: L101003BRS00

Lab Sample ID: 160-4779-3

Date Collected: 12/04/13 10:45

Matrix: Solid

Date Received: 12/05/13 18:00

Percent Solids: 83.5

Method: 6020A - Metals (ICP/MS), Tc-99

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Technetium 99	0.000022	J	0.000066	0.000020	mg/Kg	☼	12/10/13 13:58	12/11/13 14:42	1

Method: 6020A - Metals (ICP/MS), Tc-99 in Activity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Technetium 99	0.381		0.0544	0.0716	1.32	0.226	pCi/g	12/10/13 13:58	12/11/13 14:42	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Re	90		30 - 110					12/10/13 13:58	12/11/13 14:42	1

Client Sample Results

Client: Westinghouse Electric Company LLC
 Project/Site: RFP-CBA-022 (7 DAY TAT)

TestAmerica Job ID: 160-4779-1

Client Sample ID: L101005BRS00

Lab Sample ID: 160-4779-4

Date Collected: 12/04/13 11:00

Matrix: Solid

Date Received: 12/05/13 18:00

Percent Solids: 83.0

Method: 6020A - Metals (ICP/MS), Tc-99

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Technetium 99	0.000026	J	0.000066	0.000020	mg/Kg	☼	12/10/13 13:58	12/11/13 14:53	1

Method: 6020A - Metals (ICP/MS), Tc-99 in Activity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Technetium 99	0.444		0.0873	0.106	1.33	0.227	pCi/g	12/10/13 13:58	12/11/13 14:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Re	91		30 - 110					12/10/13 13:58	12/11/13 14:53	1

Client Sample ID: L101006BES00

Lab Sample ID: 160-4779-5

Date Collected: 12/04/13 11:05

Matrix: Solid

Date Received: 12/05/13 18:00

Percent Solids: 83.8

Method: 6020A - Metals (ICP/MS), Tc-99

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Technetium 99	0.000052	J	0.000066	0.000020	mg/Kg	☼	12/10/13 13:58	12/11/13 14:57	1

Method: 6020A - Metals (ICP/MS), Tc-99 in Activity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Technetium 99	0.886		0.154	0.193	1.32	0.226	pCi/g	12/10/13 13:58	12/11/13 14:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Re	90		30 - 110					12/10/13 13:58	12/11/13 14:57	1

Client Sample ID: L101007BRS00

Lab Sample ID: 160-4779-6

Date Collected: 12/04/13 13:55

Matrix: Solid

Date Received: 12/05/13 18:00

Percent Solids: 89.6

Method: 6020A - Metals (ICP/MS), Tc-99

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Technetium 99	ND		0.000062	0.000019	mg/Kg	☼	12/10/13 13:58	12/11/13 15:01	1

Method: 6020A - Metals (ICP/MS), Tc-99 in Activity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Technetium 99	0.103	U	0.0614	0.0688	1.24	0.213	pCi/g	12/10/13 13:58	12/11/13 15:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Re	90		30 - 110					12/10/13 13:58	12/11/13 15:01	1

Client Sample ID: L101008BES00

Lab Sample ID: 160-4779-7

Date Collected: 12/04/13 14:00

Matrix: Solid

Date Received: 12/05/13 18:00

Percent Solids: 83.3

Method: 6020A - Metals (ICP/MS), Tc-99

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Technetium 99	ND		0.000066	0.000020	mg/Kg	☼	12/13/13 10:09	12/15/13 19:29	1

TestAmerica St. Louis

Client Sample Results

Client: Westinghouse Electric Company LLC
 Project/Site: RFP-CBA-022 (7 DAY TAT)

TestAmerica Job ID: 160-4779-1

Client Sample ID: L101008BES00

Lab Sample ID: 160-4779-7

Date Collected: 12/04/13 14:00

Matrix: Solid

Date Received: 12/05/13 18:00

Percent Solids: 83.3

Method: 6020A - Metals (ICP/MS), Tc-99 in Activity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Technetium 99	-0.0778	U	-0.0369	0.0417	1.33	0.227	pCi/g	12/13/13 10:09	12/15/13 19:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Re	90		30 - 110					12/13/13 10:09	12/15/13 19:29	1

Client Sample ID: L101009BSS00

Lab Sample ID: 160-4779-8

Date Collected: 12/04/13 14:10

Matrix: Solid

Date Received: 12/05/13 18:00

Percent Solids: 85.1

Method: 6020A - Metals (ICP/MS), Tc-99

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Technetium 99	ND		0.000064	0.000019	mg/Kg	☼	12/10/13 13:58	12/11/13 15:09	1

Method: 6020A - Metals (ICP/MS), Tc-99 in Activity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Technetium 99	0.124	U	0.0299	0.0348	1.28	0.219	pCi/g	12/10/13 13:58	12/11/13 15:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Re	92		30 - 110					12/10/13 13:58	12/11/13 15:09	1

Client Sample ID: L101010BRS00

Lab Sample ID: 160-4779-9

Date Collected: 12/04/13 14:25

Matrix: Solid

Date Received: 12/05/13 18:00

Percent Solids: 86.3

Method: 6020A - Metals (ICP/MS), Tc-99

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Technetium 99	ND		0.000065	0.000019	mg/Kg	☼	12/10/13 13:58	12/11/13 15:13	1

Method: 6020A - Metals (ICP/MS), Tc-99 in Activity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Technetium 99	0.0419	U	0.0637	0.0706	1.29	0.221	pCi/g	12/10/13 13:58	12/11/13 15:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Re	90		30 - 110					12/10/13 13:58	12/11/13 15:13	1

Client Sample ID: L101011BSQ00

Lab Sample ID: 160-4779-10

Date Collected: 12/04/13 14:45

Matrix: Solid

Date Received: 12/05/13 18:00

Percent Solids: 86.3

Method: 6020A - Metals (ICP/MS), Tc-99

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Technetium 99	0.000022	J	0.000064	0.000019	mg/Kg	☼	12/10/13 13:58	12/11/13 15:17	1

TestAmerica St. Louis

Client Sample Results

Client: Westinghouse Electric Company LLC
 Project/Site: RFP-CBA-022 (7 DAY TAT)

TestAmerica Job ID: 160-4779-1

Client Sample ID: L101011BSQ00

Lab Sample ID: 160-4779-10

Date Collected: 12/04/13 14:45

Matrix: Solid

Date Received: 12/05/13 18:00

Percent Solids: 86.3

Method: 6020A - Metals (ICP/MS), Tc-99 in Activity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Technetium 99	0.381		0.0456	0.0637	1.29	0.221	pCi/g	12/10/13 13:58	12/11/13 15:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Re	90		30 - 110					12/10/13 13:58	12/11/13 15:17	1

Client Sample ID: L101011BSS00

Lab Sample ID: 160-4779-11

Date Collected: 12/04/13 14:45

Matrix: Solid

Date Received: 12/05/13 18:00

Percent Solids: 86.8

Method: 6020A - Metals (ICP/MS), Tc-99

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Technetium 99	0.000029	J	0.000064	0.000019	mg/Kg	☼	12/10/13 13:58	12/11/13 15:20	1

Method: 6020A - Metals (ICP/MS), Tc-99 in Activity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Technetium 99	0.502		0.0707	0.0937	1.27	0.218	pCi/g	12/10/13 13:58	12/11/13 15:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Re	90		30 - 110					12/10/13 13:58	12/11/13 15:20	1

Client Sample ID: L101012BRS00

Lab Sample ID: 160-4779-12

Date Collected: 12/04/13 14:55

Matrix: Solid

Date Received: 12/05/13 18:00

Percent Solids: 84.2

Method: 6020A - Metals (ICP/MS), Tc-99

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Technetium 99	ND		0.000067	0.000020	mg/Kg	☼	12/10/13 13:58	12/11/13 15:24	1

Method: 6020A - Metals (ICP/MS), Tc-99 in Activity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Technetium 99	0.0606	U	0.0780	0.0881	1.33	0.228	pCi/g	12/10/13 13:58	12/11/13 15:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Re	89		30 - 110					12/10/13 13:58	12/11/13 15:24	1

Client Sample ID: L101013BSS00

Lab Sample ID: 160-4779-13

Date Collected: 12/04/13 15:05

Matrix: Solid

Date Received: 12/05/13 18:00

Percent Solids: 82.8

Method: 6020A - Metals (ICP/MS), Tc-99

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Technetium 99	ND		0.000066	0.000020	mg/Kg	☼	12/10/13 13:58	12/11/13 15:28	1

TestAmerica St. Louis

Client Sample Results

Client: Westinghouse Electric Company LLC
 Project/Site: RFP-CBA-022 (7 DAY TAT)

TestAmerica Job ID: 160-4779-1

Client Sample ID: L101013BSS00

Lab Sample ID: 160-4779-13

Date Collected: 12/04/13 15:05

Matrix: Solid

Date Received: 12/05/13 18:00

Percent Solids: 82.8

Method: 6020A - Metals (ICP/MS), Tc-99 in Activity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Technetium 99	0.223	U	0.0337	0.0429	1.31	0.225	pCi/g	12/10/13 13:58	12/11/13 15:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Re	92		30 - 110					12/10/13 13:58	12/11/13 15:28	1

Client Sample ID: L101014BRS00

Lab Sample ID: 160-4779-14

Date Collected: 12/04/13 15:15

Matrix: Solid

Date Received: 12/05/13 18:00

Percent Solids: 85.3

Method: 6020A - Metals (ICP/MS), Tc-99

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Technetium 99	ND		0.000067	0.000020	mg/Kg	☼	12/10/13 13:58	12/11/13 15:40	1

Method: 6020A - Metals (ICP/MS), Tc-99 in Activity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Technetium 99	0.00822	U	0.0302	0.0341	1.33	0.228	pCi/g	12/10/13 13:58	12/11/13 15:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Re	88		30 - 110					12/10/13 13:58	12/11/13 15:40	1

Client Sample ID: L101015BES00

Lab Sample ID: 160-4779-15

Date Collected: 12/04/13 09:45

Matrix: Solid

Date Received: 12/05/13 18:00

Percent Solids: 80.6

Method: 6020A - Metals (ICP/MS), Tc-99

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Technetium 99	ND		0.000070	0.000021	mg/Kg	☼	12/10/13 13:58	12/11/13 15:44	1

Method: 6020A - Metals (ICP/MS), Tc-99 in Activity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Technetium 99	-0.00833	U	-0.0312	0.0348	1.39	0.238	pCi/g	12/10/13 13:58	12/11/13 15:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Re	90		30 - 110					12/10/13 13:58	12/11/13 15:44	1

QC Sample Results

Client: Westinghouse Electric Company LLC
 Project/Site: RFP-CBA-022 (7 DAY TAT)

TestAmerica Job ID: 160-4779-1

Method: 6020A - Metals (ICP/MS), Tc-99

Lab Sample ID: MB 160-90986/1-A
Matrix: Solid
Analysis Batch: 91401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90986

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Technetium 99	ND		0.000053	0.000016	mg/Kg		12/10/13 13:58	12/11/13 14:18	1

Lab Sample ID: LCS 160-90986/2-A
Matrix: Solid
Analysis Batch: 91401

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Technetium 99	0.00234	0.00239		mg/Kg		102	80 - 120

Lab Sample ID: 160-4779-1 MS
Matrix: Solid
Analysis Batch: 91401

Client Sample ID: L101001BRS00
Prep Type: Total/NA
Prep Batch: 90986

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Technetium 99	ND		0.00278	0.00291		mg/Kg	☼	105	75 - 125

Lab Sample ID: 160-4779-1 MSD
Matrix: Solid
Analysis Batch: 91401

Client Sample ID: L101001BRS00
Prep Type: Total/NA
Prep Batch: 90986

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Technetium 99	ND		0.00279	0.00282		mg/Kg	☼	101	75 - 125	3	30

Lab Sample ID: MB 160-91733/1-A
Matrix: Solid
Analysis Batch: 92196

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Technetium 99	ND		0.000054	0.000016	mg/Kg		12/13/13 10:09	12/15/13 17:44	1

Lab Sample ID: LCS 160-91733/2-A
Matrix: Solid
Analysis Batch: 92196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Technetium 99	0.00233	0.00236		mg/Kg		101	80 - 120

Lab Sample ID: 160-4881-A-1-B MS
Matrix: Solid
Analysis Batch: 92196

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 91733

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Technetium 99	0.00022		0.00260	0.00274		mg/Kg	☼	97	75 - 125

Lab Sample ID: 160-4881-A-1-C MSD
Matrix: Solid
Analysis Batch: 92196

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 91733

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Technetium 99	0.00022		0.00259	0.00266		mg/Kg	☼	94	75 - 125	3	30

TestAmerica St. Louis

QC Sample Results

Client: Westinghouse Electric Company LLC
 Project/Site: RFP-CBA-022 (7 DAY TAT)

TestAmerica Job ID: 160-4779-1

Method: 6020A - Metals (ICP/MS), Tc-99 in Activity

Lab Sample ID: MB 160-90986/1-A
Matrix: Solid
Analysis Batch: 91402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90986

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert.	Uncert.						
Technetium 99	-0.02880	U	-0.0417	0.0440	1.06	0.181	pCi/g	12/10/13 13:58	12/11/13 14:18	1
Carrier	MB MB		Limits		Prepared	Analyzed	Dil Fac			
Re	%Yield	Qualifier	Limits							
Re	95		30 - 110		12/10/13 13:58	12/11/13 14:18	1			

Lab Sample ID: LCS 160-90986/2-A
Matrix: Solid
Analysis Batch: 91402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90986

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Technetium 99	40.1	40.97		3.95	1.03	0.176	pCi/g	102	80 - 120
Carrier	LCS LCS		Limits		Prepared	Analyzed	Dil Fac		
Re	%Yield	Qualifier	Limits						
Re	97		30 - 110		12/10/13 13:58	12/11/13 14:18	1		

Lab Sample ID: 160-4779-1 MS
Matrix: Solid
Analysis Batch: 91402

Client Sample ID: L101001BRS00
Prep Type: Total/NA
Prep Batch: 90986

Analyte	Sample Sample		Spike	MS MS	Total	RL	MDC	Unit	%Rec	%Rec. Limits
	Result	Qual	Added	Result Qual	Uncert. (2σ+/-)					
Technetium 99	0.239		47.6	49.84	5.26	1.28	0.218	pCi/g	104	75 - 125
Carrier	MS MS		Limits		Prepared	Analyzed	Dil Fac			
Re	%Yield	Qualifier	Limits							
Re	93		30 - 110		12/10/13 13:58	12/11/13 14:18	1			

Lab Sample ID: 160-4779-1 MSD
Matrix: Solid
Analysis Batch: 91402

Client Sample ID: L101001BRS00
Prep Type: Total/NA
Prep Batch: 90986

Analyte	Sample Sample		Spike	MSD MSD	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
	Result	Qual	Added	Result Qual	Uncert. (2σ+/-)							
Technetium 99	0.239		47.8	48.24	4.81	1.29	0.221	pCi/g	100	75 - 125	0.16	1
Carrier	MSD MSD		Limits		Prepared	Analyzed	Dil Fac					
Re	%Yield	Qualifier	Limits									
Re	93		30 - 110		12/10/13 13:58	12/11/13 14:18	1					

Lab Sample ID: MB 160-91733/1-A
Matrix: Solid
Analysis Batch: 92197

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91733

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert.	Uncert.						
Technetium 99	-0.07048	U	-0.0262	0.0289	1.07	0.184	pCi/g	12/13/13 10:09	12/15/13 17:44	1

TestAmerica St. Louis

QC Sample Results

Client: Westinghouse Electric Company LLC
 Project/Site: RFP-CBA-022 (7 DAY TAT)

TestAmerica Job ID: 160-4779-1

Method: 6020A - Metals (ICP/MS), Tc-99 in Activity (Continued)

Lab Sample ID: MB 160-91733/1-A
Matrix: Solid
Analysis Batch: 92197

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91733

Carrier	<i>MB</i> %Yield	<i>MB</i> Qualifier	Limits
Re	93		30 - 110

Prepared	Analyzed	Dil Fac
12/13/13 10:09	12/15/13 17:44	1

Lab Sample ID: LCS 160-91733/2-A
Matrix: Solid
Analysis Batch: 92197

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91733

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Technetium 99	39.9	40.37		4.16	1.07	0.184	pCi/g	101	80 - 120

Carrier	<i>LCS</i> %Yield	<i>LCS</i> Qualifier	Limits
Re	93		30 - 110

Lab Sample ID: 160-4881-A-1-B MS
Matrix: Solid
Analysis Batch: 92197

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 91733

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Technetium 99	3.84		44.6	46.95		5.67	1.30	0.222	pCi/g	97	75 - 125

Carrier	<i>MS</i> %Yield	<i>MS</i> Qualifier	Limits
Re	86		30 - 110

Lab Sample ID: 160-4881-A-1-C MSD
Matrix: Solid
Analysis Batch: 92197

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 91733

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	Limit
Technetium 99	3.84		44.3	45.54		4.77	1.23	0.210	pCi/g	94	75 - 125	0.14	1

Carrier	<i>MSD</i> %Yield	<i>MSD</i> Qualifier	Limits
Re	90		30 - 110

QC Association Summary

Client: Westinghouse Electric Company LLC
 Project/Site: RFP-CBA-022 (7 DAY TAT)

TestAmerica Job ID: 160-4779-1

Metals

Prep Batch: 90986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-4779-1	L101001BRS00	Total/NA	Solid	None	
160-4779-1 MS	L101001BRS00	Total/NA	Solid	None	
160-4779-1 MSD	L101001BRS00	Total/NA	Solid	None	
160-4779-2	L101002BES00	Total/NA	Solid	None	
160-4779-3	L101003BRS00	Total/NA	Solid	None	
160-4779-4	L101005BRS00	Total/NA	Solid	None	
160-4779-5	L101006BES00	Total/NA	Solid	None	
160-4779-6	L101007BRS00	Total/NA	Solid	None	
160-4779-8	L101009BSS00	Total/NA	Solid	None	
160-4779-9	L101010BRS00	Total/NA	Solid	None	
160-4779-10	L101011BSQ00	Total/NA	Solid	None	
160-4779-11	L101011BSS00	Total/NA	Solid	None	
160-4779-12	L101012BRS00	Total/NA	Solid	None	
160-4779-13	L101013BSS00	Total/NA	Solid	None	
160-4779-14	L101014BRS00	Total/NA	Solid	None	
160-4779-15	L101015BES00	Total/NA	Solid	None	
LCS 160-90986/2-A	Lab Control Sample	Total/NA	Solid	None	
MB 160-90986/1-A	Method Blank	Total/NA	Solid	None	

Analysis Batch: 91401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-4779-1	L101001BRS00	Total/NA	Solid	6020A	90986
160-4779-1 MS	L101001BRS00	Total/NA	Solid	6020A	90986
160-4779-1 MSD	L101001BRS00	Total/NA	Solid	6020A	90986
160-4779-2	L101002BES00	Total/NA	Solid	6020A	90986
160-4779-3	L101003BRS00	Total/NA	Solid	6020A	90986
160-4779-4	L101005BRS00	Total/NA	Solid	6020A	90986
160-4779-5	L101006BES00	Total/NA	Solid	6020A	90986
160-4779-6	L101007BRS00	Total/NA	Solid	6020A	90986
160-4779-8	L101009BSS00	Total/NA	Solid	6020A	90986
160-4779-9	L101010BRS00	Total/NA	Solid	6020A	90986
160-4779-10	L101011BSQ00	Total/NA	Solid	6020A	90986
160-4779-11	L101011BSS00	Total/NA	Solid	6020A	90986
160-4779-12	L101012BRS00	Total/NA	Solid	6020A	90986
160-4779-13	L101013BSS00	Total/NA	Solid	6020A	90986
160-4779-14	L101014BRS00	Total/NA	Solid	6020A	90986
160-4779-15	L101015BES00	Total/NA	Solid	6020A	90986
LCS 160-90986/2-A	Lab Control Sample	Total/NA	Solid	6020A	90986
MB 160-90986/1-A	Method Blank	Total/NA	Solid	6020A	90986

Prep Batch: 91733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-4779-7	L101008BES00	Total/NA	Solid	None	
160-4881-A-1-B MS	Matrix Spike	Total/NA	Solid	None	
160-4881-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	None	
LCS 160-91733/2-A	Lab Control Sample	Total/NA	Solid	None	
MB 160-91733/1-A	Method Blank	Total/NA	Solid	None	

Analysis Batch: 92196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-4779-7	L101008BES00	Total/NA	Solid	6020A	91733

TestAmerica St. Louis

QC Association Summary

Client: Westinghouse Electric Company LLC
 Project/Site: RFP-CBA-022 (7 DAY TAT)

TestAmerica Job ID: 160-4779-1

Metals (Continued)

Analysis Batch: 92196 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-4881-A-1-B MS	Matrix Spike	Total/NA	Solid	6020A	91733
160-4881-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	6020A	91733
LCS 160-91733/2-A	Lab Control Sample	Total/NA	Solid	6020A	91733
MB 160-91733/1-A	Method Blank	Total/NA	Solid	6020A	91733

General Chemistry

Analysis Batch: 90314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-4779-1	L101001BRS00	Total/NA	Solid	Moisture	
160-4779-1 DU	L101001BRS00	Total/NA	Solid	Moisture	
160-4779-2	L101002BES00	Total/NA	Solid	Moisture	
160-4779-3	L101003BRS00	Total/NA	Solid	Moisture	
160-4779-4	L101005BRS00	Total/NA	Solid	Moisture	
160-4779-5	L101006BES00	Total/NA	Solid	Moisture	
160-4779-6	L101007BRS00	Total/NA	Solid	Moisture	
160-4779-7	L101008BES00	Total/NA	Solid	Moisture	
160-4779-8	L101009BSS00	Total/NA	Solid	Moisture	
160-4779-9	L101010BRS00	Total/NA	Solid	Moisture	
160-4779-10	L101011BSQ00	Total/NA	Solid	Moisture	
160-4779-11	L101011BSS00	Total/NA	Solid	Moisture	
160-4779-12	L101012BRS00	Total/NA	Solid	Moisture	
160-4779-13	L101013BSS00	Total/NA	Solid	Moisture	
160-4779-14	L101014BRS00	Total/NA	Solid	Moisture	
160-4779-15	L101015BES00	Total/NA	Solid	Moisture	
680-96831-A-4 MS	Matrix Spike	Total/NA	Solid	Moisture	
680-96831-A-4 MSD	Matrix Spike Duplicate	Total/NA	Solid	Moisture	

Rad

Prep Batch: 90986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-4779-1	L101001BRS00	Total/NA	Solid	None	
160-4779-1 MS	L101001BRS00	Total/NA	Solid	None	
160-4779-1 MSD	L101001BRS00	Total/NA	Solid	None	
160-4779-2	L101002BES00	Total/NA	Solid	None	
160-4779-3	L101003BRS00	Total/NA	Solid	None	
160-4779-4	L101005BRS00	Total/NA	Solid	None	
160-4779-5	L101006BES00	Total/NA	Solid	None	
160-4779-6	L101007BRS00	Total/NA	Solid	None	
160-4779-8	L101009BSS00	Total/NA	Solid	None	
160-4779-9	L101010BRS00	Total/NA	Solid	None	
160-4779-10	L101011BSQ00	Total/NA	Solid	None	
160-4779-11	L101011BSS00	Total/NA	Solid	None	
160-4779-12	L101012BRS00	Total/NA	Solid	None	
160-4779-13	L101013BSS00	Total/NA	Solid	None	
160-4779-14	L101014BRS00	Total/NA	Solid	None	
160-4779-15	L101015BES00	Total/NA	Solid	None	
LCS 160-90986/2-A	Lab Control Sample	Total/NA	Solid	None	
MB 160-90986/1-A	Method Blank	Total/NA	Solid	None	

TestAmerica St. Louis

QC Association Summary

Client: Westinghouse Electric Company LLC
Project/Site: RFP-CBA-022 (7 DAY TAT)

TestAmerica Job ID: 160-4779-1

Rad (Continued)

Prep Batch: 91733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-4779-7	L101008BES00	Total/NA	Solid	None	
160-4881-A-1-B MS	Matrix Spike	Total/NA	Solid	None	
160-4881-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	None	
LCS 160-91733/2-A	Lab Control Sample	Total/NA	Solid	None	
MB 160-91733/1-A	Method Blank	Total/NA	Solid	None	

Tracer/Carrier Summary

Client: Westinghouse Electric Company LLC
Project/Site: RFP-CBA-022 (7 DAY TAT)

TestAmerica Job ID: 160-4779-1

Method: 6020A - Metals (ICP/MS), Tc-99 in Activity

Matrix: Solid

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Re (30-110)
160-4779-1	L101001BRS00	91
160-4779-1 MS	L101001BRS00	93
160-4779-1 MSD	L101001BRS00	93
160-4779-2	L101002BES00	91
160-4779-3	L101003BRS00	90
160-4779-4	L101005BRS00	91
160-4779-5	L101006BES00	90
160-4779-6	L101007BRS00	90
160-4779-7	L101008BES00	90
160-4779-8	L101009BSS00	92
160-4779-9	L101010BRS00	90
160-4779-10	L101011BSQ00	90
160-4779-11	L101011BSS00	90
160-4779-12	L101012BRS00	89
160-4779-13	L101013BSS00	92
160-4779-14	L101014BRS00	88
160-4779-15	L101015BES00	90
160-4881-A-1-B MS	Matrix Spike	86
160-4881-A-1-C MSD	Matrix Spike Duplicate	90
LCS 160-90986/2-A	Lab Control Sample	97
LCS 160-91733/2-A	Lab Control Sample	93
MB 160-90986/1-A	Method Blank	95
MB 160-91733/1-A	Method Blank	93

Tracer/Carrier Legend

Re = Re