



Westinghouse Electric Company
Nuclear Fuel
Columbia Fuel Fabrication Facility
5801 Bluff Road
Hopkins, South Carolina 29061
USA

SCDHEC, BLWM
Kim Kuhn
2600 Bull Street
Columbia, SC 29201

Direct tel: 803.647.1920
Direct fax: 803.695.3964
e-mail: joynerdp@westinghouse.com
Your ref:
Our ref: LTR-RAC-20-68

August 12, 2020

Subject: **July** 2020 CA Progress Report

Ms. Kuhn:

In accordance with Item 19 of Consent Agreement (CA) 19-02-HW, this progress report is being submitted to you, including the following requested information:

- (a) a brief description of the actions which Westinghouse has taken toward achieving compliance with the Consent Agreement during the previous month;
- (b) results of sampling and tests, in tabular summary format received by Westinghouse during the reporting period;
- (c) a brief description of all actions which are scheduled for the next month to achieve compliance with the Consent Agreement, and other information relating to the progress of the work as deemed necessary or requested by the Department; and
- (d) information regarding the percentage of work completed and any delays encountered or anticipated that may affect the approved schedule for implementation of the terms of the Consent Agreement, and a description of efforts made to mitigate delays or avoid anticipated delays.

In response to the above requirements, the following is being reported to the Department since the last progress report on **July 8, 2020**:

- (a) Actions during the previous month:
Westinghouse began implementation of the Final Remedial Investigation (RI) Work Plan on 6/10/19. To comply with **Item 4** of the CA, the following actions were completed this month.
 - Submitted a response to SCDHEC's comments (May 4, 2020 letter) on the *Interim* RI Data Summary Report. The Westinghouse response to SCDHEC comments was submitted on July 15, 2020 in LTR-RAC-20-62 and also included:
 - CFFF Soil Baseline Activity Statistical Analysis (CN-MC-19-005, Rev 0)
 - Geologic cross sections and boring logs for the four Black Mingo Aquifer wells

- *Final* Interim RI Data Summary Report
 - Submitted the Technetium-99 Source Investigation Report for Phases I and II in LTR-RAC-20-64 dated July 30, 2020
 - Submitted the HFSS#1 Soil Sampling Assessment Report in LTR-20-65 dated July 30, 2020
 - Hosted a webinar to discuss the proposed scope for the RI Phase II Work Plan on July 30, 2020
 - Completed the following activities to support the Southern Storage Area (SSA) Operable Unit (OU) Work Plan:
 - Continued wet combustible material (WCM) drum removal from 3 intermodal containers (C-37, C-62, and C-34) that have been on hold. Drums potentially containing perchloroethylene were segregated and stored.
 - Intermodal container **C-37** was safely emptied of its contents on 7/10/2020.
 - Health physics radiological surveys of the pallets and the intermodal container flooring indicated no environmental impact.
 - Intermodal container **C-62** was safely emptied of its contents on 7/16/2020.
 - Health physics radiological surveys of the pallets and the intermodal container flooring indicated no environmental impact.
 - Intermodal container **C-34** was safely emptied of its contents on 8/10/2020.
 - Health physics surveys of the secondary container flooring indicated two small areas of impact, both less than 1-foot in diameter, and a 4 ft x 1.5 ft section of the right-side wall. The impacted areas were painted over to ensure the material could not be transferred to other locations. While there was no evidence of environmental impact, bias soil sampling will be performed in these areas once the container is removed.
 - Ten (10) of the original eleven (11) intermodal containers with drums potentially containing perchloroethylene have been emptied since April 14, 2020.
- (b) Results of sampling and tests:
- On June 29, 2020, soil sampling was conducted under a group of intermodal containers (C-41, C-56, C-60) removed from the SSAOU on June 23, 2020. Tabulated analytical results of the soil sampling, along with a graphic are included as **Attachment A**. The associated laboratory reports are included as **Attachment B**.
 - Systematic and bias soil sampling was conducted in accordance with the approved SSAOU Soil Sampling Work Plan.
 - All results were below the residential screening levels
 - The VOC results were non-detectable for tetrachloroethylene and its daughter products (trichloroethylene, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene, and vinyl chloride) for this round of soil sampling in the SSAOU.
- (c) Brief description of all actions which are scheduled for the next month:
- In accordance with **Item 4** of the CA, Westinghouse will continue to implement the Work Plan to include the following actions:
 - Continue WCM drum removal from the 1 remaining intermodal container; segregate and store drums potentially containing perchloroethylene

- Host a follow-up webinar with DHEC to further discuss the proposed scope of Tc-99 sampling within the RI Phase II Work Plan
- Continue to work on the RI Phase II Work Plan for submission to DHEC on or before September 15, 2020
- Begin development of the sanitary lagoon sludge characterization work plan

(d) Percentage of work completed and any delays encountered or anticipated:

- Assessment activities identified in the Final Remedial Investigation Work Plan and associated addendums have been completed, with a summary report submitted.

Respectfully,



Diana P. Joyner
Principal Environmental Engineer
Westinghouse Electric Company, CFFF
803.497.7062 (m)

Cc: N. Parr, Environmental Manager
J. Ferguson, EH&S Manager
J. Grant, AECOM Project Manager
ENOVIA Records

Attachment A

Southern Storage Area Operable Unit Soil Sampling Results

Tabulated Soil Sampling Results for the following Intermodal Containers/Sealands:

C-41	C-56	C-60
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Drawing with Soil Sampling Results

Sample ID	Analyte (pCi/g)									SOF	SOF	mg/kg Fluoride
	U-234		U-235 DL	U-235	U-238	Sum U		Tc-99 DL	Tc-99	Resid.	Ind.	
C-41-1	1.33	<	0.173	0.136	0.679	2.15	<	0.751	0	0.17	0.01	1.31
C-41-2	1.73	<	0.116	0.0773	0.868	2.68	<	0.791	0	0.20	0.01	1.17
C-41-3	0.899	<	0.280	0	0.577	1.48	<	0.759	0	0.11	0.00	1.03
C-41-4	0.886	<	0.258	0	1.06	1.95	<	0.762	0	0.14	0.01	0.378
C-45-5	1.16	<	0.207	0.0329	1.20	2.39	<	0.708	0	0.18	0.01	1.190
C-56-1	0.994	<	0.261	0.0717	0.870	1.94	<	0.725	0	0.15	0.01	0.362
C-56-2	1.07	<	0.259	0.0712	1.01	2.15	<	0.708	0	0.16	0.01	0.443
C-56-3	1.07	<	0.242	0	1.56	2.63	<	0.786	0	0.19	0.01	1.91
C-56-4	1.35	<	0.236	0.0108	0.890	2.25	<	0.759	0	0.17	0.01	1.69
C-56-5	1.51	<	0.263	0.127	1.15	2.79	<	0.759	0	0.21	0.01	3.43
C-60-1	1.34	<	0.249	0.216	1.47	3.03	<	0.751	0	0.24	0.01	0.383
C-60-2	1.29	<	0.395	0.0299	1.18	2.50	<	0.768	0	0.19	0.01	0.369
C-60-3	0.957	<	0.227	0.0622	1.14	2.16	<	0.749	0	0.16	0.01	0.957
C-60-4	1.12	<	0.246	0.0113	0.685	1.82	<	0.761	0	0.14	0.00	0.753
C-60-5	0.851			0.150	1.02	2.02	<	0.754	0	0.16	0.01	1.68

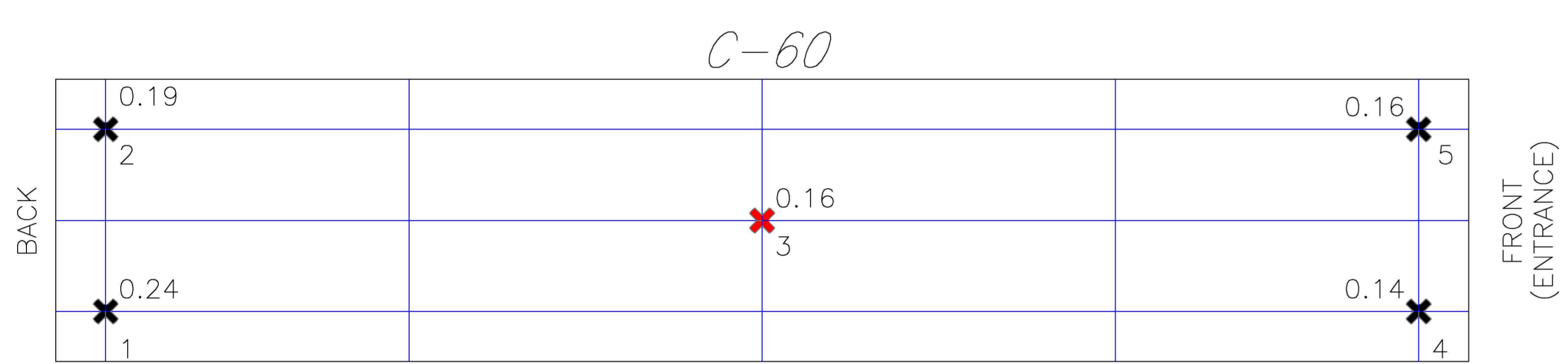
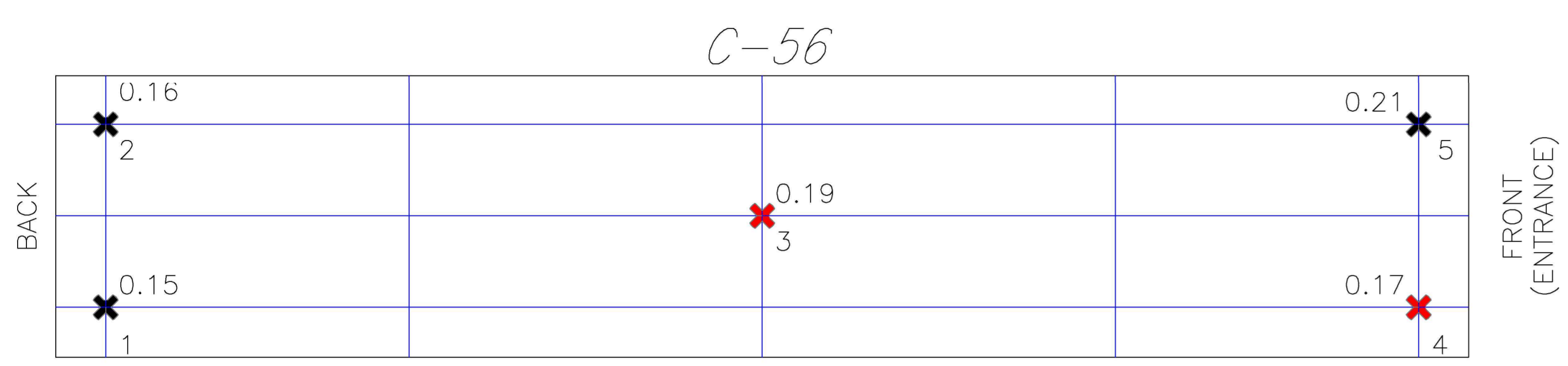
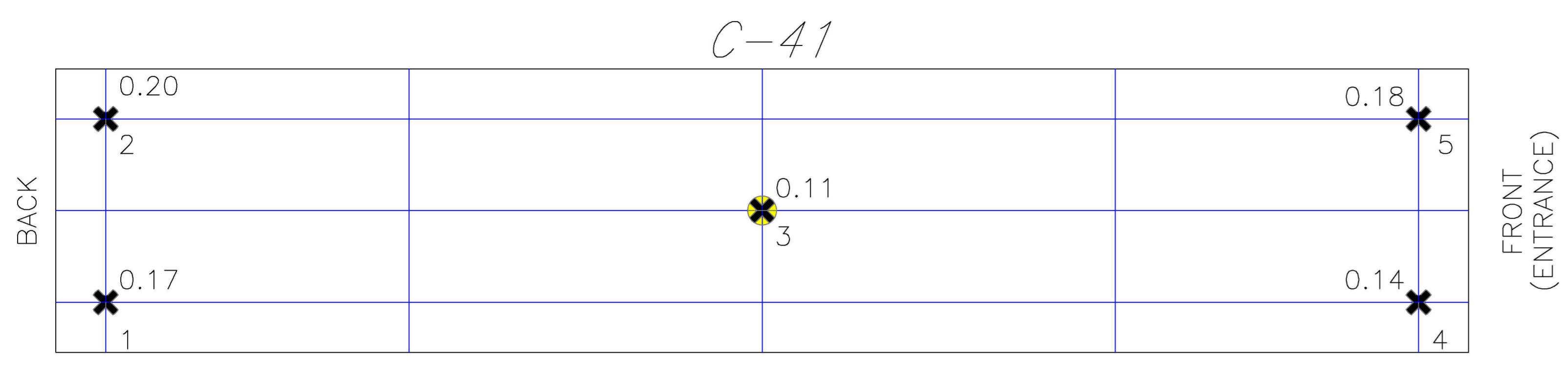
Notes:

Negative values reflected as zero

**Residential Limits in Soil
(per RA-433)**

U234	13 pCi/g
U235	8 pCi/g
U238	14 pCi/g
Tc-99	19 pCi/g
Fluoride	600 mg/kg
PCE	0.0023 mg/kg

8 7 6 5 4 3 2 1



- ✗ BIAS SAMPLE
- ✗ SYSTEMATIC SAMPLE
- ✗ SYSTEMATIC SAMPLE WITH VOC
- CONTAMINATED SOIL REMOVED TO 2 FEET DEPTH

CHANGE

WESTINGHOUSE PROPRIETARY CLASS 2 THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO WESTINGHOUSE ELECTRIC COMPANY LLC - NUCLEAR FUEL. IT IS SUBMITTED IN CONFIDENCE AND IS TO BE USED SOLELY FOR THE PURPOSE FOR WHICH IT IS FURNISHED. IF RETURNED UPON REQUEST, THIS DOCUMENT AND SUCH INFORMATION IS NOT TO BE REPRODUCED, TRANSMITTED, DISCLOSED OR USED OTHERWISE IN WHOLE OR IN PART WITHOUT PRIOR WRITTEN AUTHORIZATION OF THE WESTINGHOUSE ELECTRIC COMPANY LLC - NUCLEAR FUEL.		DFTM: W.D. HERLONG CHKD: APPD:	01/28 2020	WESTINGHOUSE ELECTRIC COMPANY LLC - NUCLEAR FUEL COLUMBIA, S.C. USA
TITLE SUM OF FRACTIONS OF ISOTOPIC URANIUM IN IN SOIL BENEATH SEA-LANDS		AREA / PROCESS		
SIZE: F REVISION NO:	DWG NO: N/A	SCALE: N/A		REV: 1
DWG TYPE: N/A		SHEET: 01 of 01 SHEETS		1 AUTOCAD DRAWING DO NOT REVISE MANUALLY

8 7 6 5 4 3 2 1

Attachment B

Southern Storage Area Operable Unit Soil Sampling- GEL Analytical Results

C-41	C-56	C-60
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GEL Analytical Results
Sampling conducted: June 29, 2020
GEL Work Order: 514924
Report Date: July 8, 2020



July 08, 2020

Ms. Cynthia Logsdon
Westinghouse Electric Company, LLC
PO Drawer R
Columbia, South Carolina 29205

Re: ENV-CONSENTA-4500778461
Work Order: 514924

Dear Ms. Logsdon:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 01, 2020. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Lindsay Fabra
Project Manager

Purchase Order: 4500778461, Ln 1
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

WNUC009 Westinghouse Electric Co, LLC

Client SDG: 514924 GEL Work Order: 514924

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J See case narrative for an explanation
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Lindsay Fabra.

Reviewed by _____

Lindsay Fabra



Analytical Detections Summary

SDG/Report#	514924	Client	Westinghouse Electric Co, LLC
Project ID	ENV-CONSENTA-4500778461		

GEL ID	Client Sample ID	Method	CAS	Analyte	Result	Q	
514924001	C-41-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.679 pCi/g		
			13968-55-3/1	Uranium-233/234	1.33 pCi/g		
			3966-29-5				
		SW846 3050B/6020B	7440-61-1	Uranium-238	1170 ug/kg		
		SW846 9056A	16984-48-8	Fluoride	1.31 mg/kg		
514924002	C-41-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.868 pCi/g		
			13968-55-3/1	Uranium-233/234	1.73 pCi/g		
			3966-29-5				
		SW846 9056A	16984-48-8	Fluoride	1.17 mg/kg		
514924003	C-41-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.577 pCi/g		
			13968-55-3/1	Uranium-233/234	0.899 pCi/g		
			3966-29-5				
		SW846 8260D	67-64-1	Acetone	4.6 ug/kg		
514924004	C-41-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.06 pCi/g		
			13968-55-3/1	Uranium-233/234	0.886 pCi/g		
			3966-29-5				
514924005	C-41-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.2 pCi/g		
			13968-55-3/1	Uranium-233/234	1.16 pCi/g		
			3966-29-5				
		SW846 9056A	16984-48-8	Fluoride	1.19 mg/kg		
514924006	C-56-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.87 pCi/g		
			13968-55-3/1	Uranium-233/234	0.994 pCi/g		
			3966-29-5				
		SW846 3050B/6020B	7440-61-1	Uranium-238	887 ug/kg		
514924007	C-56-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.01 pCi/g		
			13968-55-3/1	Uranium-233/234	1.07 pCi/g		
			3966-29-5				
514924008	C-56-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.56 pCi/g		
			13968-55-3/1	Uranium-233/234	1.07 pCi/g		
			3966-29-5				
		SW846 8260D	67-64-1	Acetone	5.04 ug/kg		
		SW846 9056A	16984-48-8	Fluoride	1.91 mg/kg		
514924009	C-56-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.89 pCi/g		
			13968-55-3/1	Uranium-233/234	1.35 pCi/g		
			3966-29-5				
		SW846 8260D	67-64-1	Acetone	5.46 ug/kg		
		SW846 9056A	16984-48-8	Fluoride	1.69 mg/kg		
514924010	C-56-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.15 pCi/g		
			13968-55-3/1	Uranium-233/234	1.51 pCi/g		
			3966-29-5				
		SW846 9056A	16984-48-8	Fluoride	3.43 mg/kg		
514924011	C-60-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.47 pCi/g		
			13968-55-3/1	Uranium-233/234	1.34 pCi/g		
			3966-29-5				

Analytical Detections Summary

SDG/Report#	514924	Client	Westinghouse Electric Co, LLC
Project ID	ENV-CONSENTA-4500778461		

GEL ID	Client Sample ID	Method	CAS	Analyte	Result	Q
514924012	C-60-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.18 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.29 pCi/g	
514924013	C-60-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.14 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	0.957 pCi/g	
		SW846 8260D	67-64-1	Acetone	7.99 ug/kg	
514924014	C-60-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.685 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.12 pCi/g	
514924015	C-60-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.02 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	0.851 pCi/g	
			15117-96-1/1 3982-70-2	Uranium-235/236	0.15 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.68 mg/kg	

NOTE: This report only lists detections greater than the reporting level. Reporting level is the LOQ, PQL, MDC, or Client-provided limit.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-41-1 Project: WNUC00901
Sample ID: 514924001 Client ID: WNUC009
Matrix: Soil
Collect Date: 29-JUN-20 09:18
Receive Date: 01-JUL-20
Collector: Client
Moisture: 11.6%

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.31	0.383	1.13	mg/kg	9.95	1	LXA2	07/02/20	1244	2016999	1
Metals Analysis-ICP-MS												
SW846 3050B/6020B Isotopic Uranium-234/235/238 "Dry Weight Corrected"												
Uranium-235	J	10.3	2.07	14.5	ug/kg	91.4	2	PRB	07/07/20	1808	2016943	2
Uranium-238		1170	13.6	41.3	ug/kg	91.4	2					
Uranium-234	U	ND	2.07	10.3	ug/kg	91.4	2	PRB	07/07/20	2312	2016943	3

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	HH1	07/06/20	1724	2016942
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	07/02/20	0926	2016998

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	
2	SW846 3050B/6020B	
3	SW846 3050B/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID:	C-41-2	Project:	WNUC00901
Sample ID:	514924002	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	29-JUN-20 09:22		
Receive Date:	01-JUL-20		
Collector:	Client		
Moisture:	11.5%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.17	0.381	1.12	mg/kg	9.90	1	LXA2	07/02/20	1405	2016999	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	07/02/20	0926	2016998

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-41-3	Project: WNUC00901
Sample ID: 514924003	Client ID: WNUC009
Matrix: Soil	
Collect Date: 29-JUN-20 09:26	
Receive Date: 01-JUL-20	
Collector: Client	
Moisture: 12.3%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	1.03	0.368	1.08	mg/kg	9.50	1	LXA2	07/02/20	1432	2016999	1
Volatile Organics												
SW846 8260D Volatiles, Solid "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	0.268	0.805	ug/kg	0.706	1	MXL2	07/07/20	1841	2017923	2
1,1,2,2-Tetrachloroethane	U	ND	0.268	0.805	ug/kg	0.706	1					
1,1,2-Trichloroethane	U	ND	0.268	0.805	ug/kg	0.706	1					
1,1-Dichloroethane	U	ND	0.268	0.805	ug/kg	0.706	1					
1,1-Dichloroethylene	U	ND	0.268	0.805	ug/kg	0.706	1					
1,2,3-Trichlorobenzene	U	ND	0.268	0.805	ug/kg	0.706	1					
1,2,4-Trichlorobenzene	U	ND	0.268	0.805	ug/kg	0.706	1					
1,2-Dibromo-3-chloropropane	U	ND	0.403	0.805	ug/kg	0.706	1					
1,2-Dibromoethane	U	ND	0.268	0.805	ug/kg	0.706	1					
1,2-Dichlorobenzene	U	ND	0.268	0.805	ug/kg	0.706	1					
1,2-Dichloroethane	U	ND	0.268	0.805	ug/kg	0.706	1					
1,2-Dichloropropane	U	ND	0.268	0.805	ug/kg	0.706	1					
1,3-Dichlorobenzene	U	ND	0.268	0.805	ug/kg	0.706	1					
1,4-Dichlorobenzene	U	ND	0.268	0.805	ug/kg	0.706	1					
1,4-Dioxane	U	ND	13.4	40.3	ug/kg	0.706	1					
2-Butanone	U	ND	1.34	4.03	ug/kg	0.706	1					
2-Hexanone	U	ND	1.34	4.03	ug/kg	0.706	1					
4-Methyl-2-pentanone	U	ND	1.34	4.03	ug/kg	0.706	1					
Acetone		4.60	1.34	4.03	ug/kg	0.706	1					
Benzene	U	ND	0.268	0.805	ug/kg	0.706	1					
Bromochloromethane	U	ND	0.268	0.805	ug/kg	0.706	1					
Bromodichloromethane	U	ND	0.268	0.805	ug/kg	0.706	1					
Bromoform	U	ND	0.268	0.805	ug/kg	0.706	1					
Bromomethane	U	ND	0.268	0.805	ug/kg	0.706	1					
Carbon disulfide	U	ND	1.34	4.03	ug/kg	0.706	1					
Carbon tetrachloride	U	ND	0.268	0.805	ug/kg	0.706	1					
Chlorobenzene	U	ND	0.268	0.805	ug/kg	0.706	1					
Chloroethane	U	ND	0.268	0.805	ug/kg	0.706	1					
Chloroform	U	ND	0.268	0.805	ug/kg	0.706	1					
Chloromethane	U	ND	0.268	0.805	ug/kg	0.706	1					
Cyclohexane	U	ND	0.268	0.805	ug/kg	0.706	1					
Dibromochloromethane	U	ND	0.268	0.805	ug/kg	0.706	1					
Dichlorodifluoromethane	U	ND	0.268	0.805	ug/kg	0.706	1					

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-41-3	Project: WNUC00901
Sample ID: 514924003	Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatil Organics												
SW846 8260D Volatiles, Solid "Dry Weight Corrected"												
Ethylbenzene	U	ND	0.268	0.805	ug/kg	0.706	1					
Isopropylbenzene	U	ND	0.268	0.805	ug/kg	0.706	1					
Methyl acetate	U	ND	1.34	4.03	ug/kg	0.706	1					
Methylcyclohexane	U	ND	0.268	0.805	ug/kg	0.706	1					
Methylene chloride	U	ND	1.34	4.03	ug/kg	0.706	1					
Styrene	U	ND	0.268	0.805	ug/kg	0.706	1					
Tetrachloroethylene	U	ND	0.268	0.805	ug/kg	0.706	1					
Toluene	U	ND	0.268	0.805	ug/kg	0.706	1					
Trichloroethylene	U	ND	0.268	0.805	ug/kg	0.706	1					
Trichlorofluoromethane	U	ND	0.268	0.805	ug/kg	0.706	1					
Trichlorotrifluoroethane	U	ND	1.34	4.03	ug/kg	0.706	1					
Vinyl chloride	U	ND	0.268	0.805	ug/kg	0.706	1					
cis-1,2-Dichloroethylene	U	ND	0.268	0.805	ug/kg	0.706	1					
cis-1,3-Dichloropropylene	U	ND	0.268	0.805	ug/kg	0.706	1					
m,p-Xylenes	U	ND	0.537	1.61	ug/kg	0.706	1					
o-Xylene	U	ND	0.268	0.805	ug/kg	0.706	1					
tert-Butyl methyl ether	U	ND	0.268	0.805	ug/kg	0.706	1					
trans-1,2-Dichloroethylene	U	ND	0.268	0.805	ug/kg	0.706	1					
trans-1,3-Dichloropropylene	U	ND	0.268	0.805	ug/kg	0.706	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	MXL2	07/07/20	1155	2017922
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	07/02/20	0926	2016998

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	
2	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	38.0 ug/kg	50.0	94	(81%-124%)
Bromofluorobenzene	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	42.9 ug/kg	50.0	107	(70%-130%)
Toluene-d8	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	40.5 ug/kg	50.0	101	(81%-120%)

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Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205
Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-41-3

Sample ID: 514924003

Project: WNUC00901

Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID:	C-41-4	Project:	WNUC00901
Sample ID:	514924004	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	29-JUN-20 09:31		
Receive Date:	01-JUL-20		
Collector:	Client		
Moisture:	12%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.378	1.11	mg/kg	9.78	1	LXA2	07/02/20	1459	2016999	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	07/02/20	0926	2016998

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID:	C-41-5	Project:	WNUC00901
Sample ID:	514924005	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	29-JUN-20 09:40		
Receive Date:	01-JUL-20		
Collector:	Client		
Moisture:	10.5%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.19	0.373	1.10	mg/kg	9.83	1	LXA2	07/02/20	1527	2016999	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	07/02/20	0926	2016998

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-56-1	Project: WNUC00901
Sample ID: 514924006	Client ID: WNUC009
Matrix: Soil	
Collect Date: 29-JUN-20 09:50	
Receive Date: 01-JUL-20	
Collector: Client	
Moisture: 10%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.362	1.07	mg/kg	9.59	1	LXA2	07/02/20	1554	2016999	1
Metals Analysis-ICP-MS												
SW846 3050B/6020B Isotopic Uranium-234/235/238 "Dry Weight Corrected"												
Uranium-235	J	6.79	2.05	14.4	ug/kg	92.3	2	PRB	07/07/20	1816	2016943	2
Uranium-238		887	13.5	41.0	ug/kg	92.3	2					
Uranium-234	U	ND	2.05	10.3	ug/kg	92.3	2	PRB	07/07/20	2319	2016943	3

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	HH1	07/06/20	1724	2016942
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	07/02/20	0926	2016998

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	
2	SW846 3050B/6020B	
3	SW846 3050B/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID:	C-56-2	Project:	WNUC00901
Sample ID:	514924007	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	29-JUN-20 09:54		
Receive Date:	01-JUL-20		
Collector:	Client		
Moisture:	9.24%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.443	0.358	1.05	mg/kg	9.55	1	LXA2	07/02/20	1715	2016999	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	07/02/20	0926	2016998

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-56-3	Project: WNUC00901
Sample ID: 514924008	Client ID: WNUC009
Matrix: Soil	
Collect Date: 29-JUN-20 09:58	
Receive Date: 01-JUL-20	
Collector: Client	
Moisture: 10.3%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.91	0.372	1.09	mg/kg	9.80	1	LXA2	07/02/20	1742	2016999	1
Volatile Organics												
SW846 8260D Volatiles, Solid "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	0.291	0.874	ug/kg	0.784	1	MXL2	07/07/20	1908	2017923	2
1,1,2,2-Tetrachloroethane	U	ND	0.291	0.874	ug/kg	0.784	1					
1,1,2-Trichloroethane	U	ND	0.291	0.874	ug/kg	0.784	1					
1,1-Dichloroethane	U	ND	0.291	0.874	ug/kg	0.784	1					
1,1-Dichloroethylene	U	ND	0.291	0.874	ug/kg	0.784	1					
1,2,3-Trichlorobenzene	U	ND	0.291	0.874	ug/kg	0.784	1					
1,2,4-Trichlorobenzene	U	ND	0.291	0.874	ug/kg	0.784	1					
1,2-Dibromo-3-chloropropane	U	ND	0.437	0.874	ug/kg	0.784	1					
1,2-Dibromoethane	U	ND	0.291	0.874	ug/kg	0.784	1					
1,2-Dichlorobenzene	U	ND	0.291	0.874	ug/kg	0.784	1					
1,2-Dichloroethane	U	ND	0.291	0.874	ug/kg	0.784	1					
1,2-Dichloropropane	U	ND	0.291	0.874	ug/kg	0.784	1					
1,3-Dichlorobenzene	U	ND	0.291	0.874	ug/kg	0.784	1					
1,4-Dichlorobenzene	U	ND	0.291	0.874	ug/kg	0.784	1					
1,4-Dioxane	U	ND	14.6	43.7	ug/kg	0.784	1					
2-Butanone	U	ND	1.46	4.37	ug/kg	0.784	1					
2-Hexanone	U	ND	1.46	4.37	ug/kg	0.784	1					
4-Methyl-2-pentanone	U	ND	1.46	4.37	ug/kg	0.784	1					
Acetone		5.04	1.46	4.37	ug/kg	0.784	1					
Benzene	U	ND	0.291	0.874	ug/kg	0.784	1					
Bromochloromethane	U	ND	0.291	0.874	ug/kg	0.784	1					
Bromodichloromethane	U	ND	0.291	0.874	ug/kg	0.784	1					
Bromoform	U	ND	0.291	0.874	ug/kg	0.784	1					
Bromomethane	U	ND	0.291	0.874	ug/kg	0.784	1					
Carbon disulfide	U	ND	1.46	4.37	ug/kg	0.784	1					
Carbon tetrachloride	U	ND	0.291	0.874	ug/kg	0.784	1					
Chlorobenzene	U	ND	0.291	0.874	ug/kg	0.784	1					
Chloroethane	U	ND	0.291	0.874	ug/kg	0.784	1					
Chloroform	U	ND	0.291	0.874	ug/kg	0.784	1					
Chloromethane	U	ND	0.291	0.874	ug/kg	0.784	1					
Cyclohexane	U	ND	0.291	0.874	ug/kg	0.784	1					
Dibromochloromethane	U	ND	0.291	0.874	ug/kg	0.784	1					
Dichlorodifluoromethane	U	ND	0.291	0.874	ug/kg	0.784	1					

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Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-56-3	Project: WNUC00901
Sample ID: 514924008	Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatil Organics												
SW846 8260D Volatiles, Solid "Dry Weight Corrected"												
Ethylbenzene	U	ND	0.291	0.874	ug/kg	0.784	1					
Isopropylbenzene	U	ND	0.291	0.874	ug/kg	0.784	1					
Methyl acetate	U	ND	1.46	4.37	ug/kg	0.784	1					
Methylcyclohexane	U	ND	0.291	0.874	ug/kg	0.784	1					
Methylene chloride	U	ND	1.46	4.37	ug/kg	0.784	1					
Styrene	U	ND	0.291	0.874	ug/kg	0.784	1					
Tetrachloroethylene	U	ND	0.291	0.874	ug/kg	0.784	1					
Toluene	U	ND	0.291	0.874	ug/kg	0.784	1					
Trichloroethylene	U	ND	0.291	0.874	ug/kg	0.784	1					
Trichlorofluoromethane	U	ND	0.291	0.874	ug/kg	0.784	1					
Trichlorotrifluoroethane	U	ND	1.46	4.37	ug/kg	0.784	1					
Vinyl chloride	U	ND	0.291	0.874	ug/kg	0.784	1					
cis-1,2-Dichloroethylene	U	ND	0.291	0.874	ug/kg	0.784	1					
cis-1,3-Dichloropropylene	U	ND	0.291	0.874	ug/kg	0.784	1					
m,p-Xylenes	U	ND	0.583	1.75	ug/kg	0.784	1					
o-Xylene	U	ND	0.291	0.874	ug/kg	0.784	1					
tert-Butyl methyl ether	U	ND	0.291	0.874	ug/kg	0.784	1					
trans-1,2-Dichloroethylene	U	ND	0.291	0.874	ug/kg	0.784	1					
trans-1,3-Dichloropropylene	U	ND	0.291	0.874	ug/kg	0.784	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	MXL2	07/07/20	1155	2017922
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	07/02/20	0926	2016998

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	
2	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	42.8 ug/kg	50.0	98	(81%-124%)
Bromofluorobenzene	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	45.2 ug/kg	50.0	103	(70%-130%)
Toluene-d8	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	42.0 ug/kg	50.0	96	(81%-120%)

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Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205
Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID:	C-56-3	Project:	WNUC00901
Sample ID:	514924008	Client ID:	WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-56-4	Project: WNUC00901
Sample ID: 514924009	Client ID: WNUC009
Matrix: Soil	
Collect Date: 29-JUN-20 10:03	
Receive Date: 01-JUL-20	
Collector: Client	
Moisture: 7.91%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.69	0.366	1.08	mg/kg	9.90	1	LXA2	07/02/20	1809	2016999	1
Volatile Organics												
SW846 8260D Volatiles, Solid "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	0.271	0.815	ug/kg	0.751	1	MXL2	07/07/20	1935	2017923	2
1,1,2,2-Tetrachloroethane	U	ND	0.271	0.815	ug/kg	0.751	1					
1,1,2-Trichloroethane	U	ND	0.271	0.815	ug/kg	0.751	1					
1,1-Dichloroethane	U	ND	0.271	0.815	ug/kg	0.751	1					
1,1-Dichloroethylene	U	ND	0.271	0.815	ug/kg	0.751	1					
1,2,3-Trichlorobenzene	U	ND	0.271	0.815	ug/kg	0.751	1					
1,2,4-Trichlorobenzene	U	ND	0.271	0.815	ug/kg	0.751	1					
1,2-Dibromo-3-chloropropane	U	ND	0.408	0.815	ug/kg	0.751	1					
1,2-Dibromoethane	U	ND	0.271	0.815	ug/kg	0.751	1					
1,2-Dichlorobenzene	U	ND	0.271	0.815	ug/kg	0.751	1					
1,2-Dichloroethane	U	ND	0.271	0.815	ug/kg	0.751	1					
1,2-Dichloropropane	U	ND	0.271	0.815	ug/kg	0.751	1					
1,3-Dichlorobenzene	U	ND	0.271	0.815	ug/kg	0.751	1					
1,4-Dichlorobenzene	U	ND	0.271	0.815	ug/kg	0.751	1					
1,4-Dioxane	U	ND	13.6	40.8	ug/kg	0.751	1					
2-Butanone	U	ND	1.36	4.08	ug/kg	0.751	1					
2-Hexanone	U	ND	1.36	4.08	ug/kg	0.751	1					
4-Methyl-2-pentanone	U	ND	1.36	4.08	ug/kg	0.751	1					
Acetone		5.46	1.36	4.08	ug/kg	0.751	1					
Benzene	U	ND	0.271	0.815	ug/kg	0.751	1					
Bromochloromethane	U	ND	0.271	0.815	ug/kg	0.751	1					
Bromodichloromethane	U	ND	0.271	0.815	ug/kg	0.751	1					
Bromoform	U	ND	0.271	0.815	ug/kg	0.751	1					
Bromomethane	U	ND	0.271	0.815	ug/kg	0.751	1					
Carbon disulfide	U	ND	1.36	4.08	ug/kg	0.751	1					
Carbon tetrachloride	U	ND	0.271	0.815	ug/kg	0.751	1					
Chlorobenzene	U	ND	0.271	0.815	ug/kg	0.751	1					
Chloroethane	U	ND	0.271	0.815	ug/kg	0.751	1					
Chloroform	U	ND	0.271	0.815	ug/kg	0.751	1					
Chloromethane	U	ND	0.271	0.815	ug/kg	0.751	1					
Cyclohexane	U	ND	0.271	0.815	ug/kg	0.751	1					
Dibromochloromethane	U	ND	0.271	0.815	ug/kg	0.751	1					
Dichlorodifluoromethane	U	ND	0.271	0.815	ug/kg	0.751	1					

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Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-56-4	Project: WNUC00901
Sample ID: 514924009	Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D Volatiles, Solid "Dry Weight Corrected"												
Ethylbenzene	U	ND	0.271	0.815	ug/kg	0.751	1					
Isopropylbenzene	U	ND	0.271	0.815	ug/kg	0.751	1					
Methyl acetate	U	ND	1.36	4.08	ug/kg	0.751	1					
Methylcyclohexane	U	ND	0.271	0.815	ug/kg	0.751	1					
Methylene chloride	U	ND	1.36	4.08	ug/kg	0.751	1					
Styrene	U	ND	0.271	0.815	ug/kg	0.751	1					
Tetrachloroethylene	J	0.277	0.271	0.815	ug/kg	0.751	1					
Toluene	U	ND	0.271	0.815	ug/kg	0.751	1					
Trichloroethylene	U	ND	0.271	0.815	ug/kg	0.751	1					
Trichlorofluoromethane	U	ND	0.271	0.815	ug/kg	0.751	1					
Trichlorotrifluoroethane	U	ND	1.36	4.08	ug/kg	0.751	1					
Vinyl chloride	U	ND	0.271	0.815	ug/kg	0.751	1					
cis-1,2-Dichloroethylene	U	ND	0.271	0.815	ug/kg	0.751	1					
cis-1,3-Dichloropropylene	U	ND	0.271	0.815	ug/kg	0.751	1					
m,p-Xylenes	U	ND	0.544	1.63	ug/kg	0.751	1					
o-Xylene	U	ND	0.271	0.815	ug/kg	0.751	1					
tert-Butyl methyl ether	U	ND	0.271	0.815	ug/kg	0.751	1					
trans-1,2-Dichloroethylene	U	ND	0.271	0.815	ug/kg	0.751	1					
trans-1,3-Dichloropropylene	U	ND	0.271	0.815	ug/kg	0.751	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	MXL2	07/07/20	1156	2017922
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	07/02/20	0926	2016998

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	
2	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	41.1 ug/kg	50.0	101	(81%-124%)
Bromofluorobenzene	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	43.1 ug/kg	50.0	106	(70%-130%)
Toluene-d8	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	40.2 ug/kg	50.0	99	(81%-120%)

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Certificate of Analysis

Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205
Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID:	C-56-4	Project:	WNUC00901
Sample ID:	514924009	Client ID:	WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID:	C-56-5	Project:	WNUC00901
Sample ID:	514924010	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	29-JUN-20 10:11		
Receive Date:	01-JUL-20		
Collector:	Client		
Moisture:	9.97%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		3.43	0.376	1.11	mg/kg	9.95	1	LXA2	07/02/20	1836	2016999	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	07/02/20	0926	2016998

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID:	C-60-1	Project:	WNUC00901
Sample ID:	514924011	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	29-JUN-20 10:18		
Receive Date:	01-JUL-20		
Collector:	Client		
Moisture:	12.4%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.383	1.13	mg/kg	9.88	1	CH5	07/03/20	2214	2017034	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	07/03/20	1717	2017032

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID:	C-60-2	Project:	WNUC00901
Sample ID:	514924012	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	29-JUN-20 10:21		
Receive Date:	01-JUL-20		
Collector:	Client		
Moisture:	11.5%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.369	1.08	mg/kg	9.59	1	CH5	07/04/20	0034	2017034	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	07/03/20	1717	2017032

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-60-3	Project: WNUC00901
Sample ID: 514924013	Client ID: WNUC009
Matrix: Soil	
Collect Date: 29-JUN-20 10:24	
Receive Date: 01-JUL-20	
Collector: Client	
Moisture: 7.97%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.957	0.372	1.09	mg/kg	10.1	1	CH5	07/04/20	0102	2017034	1
Volatile Organics												
SW846 8260D Volatiles, Solid "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	0.277	0.831	ug/kg	0.765	1	MXL2	07/07/20	2001	2017923	2
1,1,2,2-Tetrachloroethane	U	ND	0.277	0.831	ug/kg	0.765	1					
1,1,2-Trichloroethane	U	ND	0.277	0.831	ug/kg	0.765	1					
1,1-Dichloroethane	U	ND	0.277	0.831	ug/kg	0.765	1					
1,1-Dichloroethylene	U	ND	0.277	0.831	ug/kg	0.765	1					
1,2,3-Trichlorobenzene	U	ND	0.277	0.831	ug/kg	0.765	1					
1,2,4-Trichlorobenzene	U	ND	0.277	0.831	ug/kg	0.765	1					
1,2-Dibromo-3-chloropropane	U	ND	0.415	0.831	ug/kg	0.765	1					
1,2-Dibromoethane	U	ND	0.277	0.831	ug/kg	0.765	1					
1,2-Dichlorobenzene	U	ND	0.277	0.831	ug/kg	0.765	1					
1,2-Dichloroethane	U	ND	0.277	0.831	ug/kg	0.765	1					
1,2-Dichloropropane	U	ND	0.277	0.831	ug/kg	0.765	1					
1,3-Dichlorobenzene	U	ND	0.277	0.831	ug/kg	0.765	1					
1,4-Dichlorobenzene	U	ND	0.277	0.831	ug/kg	0.765	1					
1,4-Dioxane	U	ND	13.8	41.5	ug/kg	0.765	1					
2-Butanone	U	ND	1.38	4.15	ug/kg	0.765	1					
2-Hexanone	U	ND	1.38	4.15	ug/kg	0.765	1					
4-Methyl-2-pentanone	U	ND	1.38	4.15	ug/kg	0.765	1					
Acetone		7.99	1.38	4.15	ug/kg	0.765	1					
Benzene	U	ND	0.277	0.831	ug/kg	0.765	1					
Bromochloromethane	U	ND	0.277	0.831	ug/kg	0.765	1					
Bromodichloromethane	U	ND	0.277	0.831	ug/kg	0.765	1					
Bromoform	U	ND	0.277	0.831	ug/kg	0.765	1					
Bromomethane	U	ND	0.277	0.831	ug/kg	0.765	1					
Carbon disulfide	U	ND	1.38	4.15	ug/kg	0.765	1					
Carbon tetrachloride	U	ND	0.277	0.831	ug/kg	0.765	1					
Chlorobenzene	U	ND	0.277	0.831	ug/kg	0.765	1					
Chloroethane	U	ND	0.277	0.831	ug/kg	0.765	1					
Chloroform	U	ND	0.277	0.831	ug/kg	0.765	1					
Chloromethane	U	ND	0.277	0.831	ug/kg	0.765	1					
Cyclohexane	U	ND	0.277	0.831	ug/kg	0.765	1					
Dibromochloromethane	U	ND	0.277	0.831	ug/kg	0.765	1					
Dichlorodifluoromethane	U	ND	0.277	0.831	ug/kg	0.765	1					

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Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-60-3	Project: WNUC00901
Sample ID: 514924013	Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D Volatiles, Solid "Dry Weight Corrected"												
Ethylbenzene	U	ND	0.277	0.831	ug/kg	0.765	1					
Isopropylbenzene	U	ND	0.277	0.831	ug/kg	0.765	1					
Methyl acetate	U	ND	1.38	4.15	ug/kg	0.765	1					
Methylcyclohexane	U	ND	0.277	0.831	ug/kg	0.765	1					
Methylene chloride	U	ND	1.38	4.15	ug/kg	0.765	1					
Styrene	U	ND	0.277	0.831	ug/kg	0.765	1					
Tetrachloroethylene	U	ND	0.277	0.831	ug/kg	0.765	1					
Toluene	U	ND	0.277	0.831	ug/kg	0.765	1					
Trichloroethylene	U	ND	0.277	0.831	ug/kg	0.765	1					
Trichlorofluoromethane	U	ND	0.277	0.831	ug/kg	0.765	1					
Trichlorotrifluoroethane	U	ND	1.38	4.15	ug/kg	0.765	1					
Vinyl chloride	U	ND	0.277	0.831	ug/kg	0.765	1					
cis-1,2-Dichloroethylene	U	ND	0.277	0.831	ug/kg	0.765	1					
cis-1,3-Dichloropropylene	U	ND	0.277	0.831	ug/kg	0.765	1					
m,p-Xylenes	U	ND	0.554	1.66	ug/kg	0.765	1					
o-Xylene	U	ND	0.277	0.831	ug/kg	0.765	1					
tert-Butyl methyl ether	U	ND	0.277	0.831	ug/kg	0.765	1					
trans-1,2-Dichloroethylene	U	ND	0.277	0.831	ug/kg	0.765	1					
trans-1,3-Dichloropropylene	U	ND	0.277	0.831	ug/kg	0.765	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	MXL2	07/07/20	1156	2017922
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	07/03/20	1717	2017032

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	
2	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	42.6 ug/kg	50.0	103	(81%-124%)
Bromofluorobenzene	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	43.3 ug/kg	50.0	104	(70%-130%)
Toluene-d8	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	40.2 ug/kg	50.0	97	(81%-120%)

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Certificate of Analysis

Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205
Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID:	C-60-3	Project:	WNUC00901
Sample ID:	514924013	Client ID:	WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID:	C-60-4	Project:	WNUC00901
Sample ID:	514924014	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	29-JUN-20 10:31		
Receive Date:	01-JUL-20		
Collector:	Client		
Moisture:	8.44%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.753	0.390	1.15	mg/kg	10.5	1	CH5	07/04/20	0130	2017034	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	07/03/20	1717	2017032

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID:	C-60-5	Project:	WNUC00901
Sample ID:	514924015	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	29-JUN-20 10:35		
Receive Date:	01-JUL-20		
Collector:	Client		
Moisture:	13.8%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.68	0.399	1.17	mg/kg	10.1	1	CH5	07/04/20	0158	2017034	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	07/03/20	1717	2017032

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-41-1	Project: WNUC00901
Sample ID: 514924001	Client ID: WNUC009
Matrix: Soil	
Collect Date: 29-JUN-20 09:18	
Receive Date: 01-JUL-20	
Collector: Client	
Moisture: 11.6%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		1.33	+/-0.407	0.282	0.500	pCi/g			HAKB	07/06/20	2357	2017171	1
Uranium-235/236	U	0.136	+/-0.160	0.173	0.500	pCi/g							
Uranium-238		0.679	+/-0.287	0.178	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.396	+/-0.407	0.751	1.00	pCi/g			JJ3	07/07/20	0602	2017085	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	07/01/20	1717	2016895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, U-02-RC Modified	
2	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			97	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			90.9	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-41-2	Project: WNUC00901
Sample ID: 514924002	Client ID: WNUC009
Matrix: Soil	
Collect Date: 29-JUN-20 09:22	
Receive Date: 01-JUL-20	
Collector: Client	
Moisture: 11.5%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		1.73	+/-0.468	0.237	0.500	pCi/g			HAKB	07/06/20	2357	2017171	1
Uranium-235/236	U	0.0773	+/-0.132	0.116	0.500	pCi/g							
Uranium-238		0.868	+/-0.331	0.150	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.150	+/-0.443	0.791	1.00	pCi/g			JJ3	07/07/20	0640	2017085	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	07/01/20	1717	2016895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, U-02-RC Modified	
2	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			109	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			89.8	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-41-3	Project: WNUC00901
Sample ID: 514924003	Client ID: WNUC009
Matrix: Soil	
Collect Date: 29-JUN-20 09:26	
Receive Date: 01-JUL-20	
Collector: Client	
Moisture: 12.3%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		0.899	+/-0.397	0.369	0.500	pCi/g			HAKB	07/06/20	2357	2017171	1
Uranium-235/236	U	-0.0330	+/-0.0997	0.280	0.500	pCi/g							
Uranium-238		0.577	+/-0.312	0.274	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.115	+/-0.426	0.759	1.00	pCi/g			JJ3	07/07/20	0717	2017085	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	07/01/20	1717	2016895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, U-02-RC Modified	
2	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			89.7	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.9	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-41-4	Project: WNUC00901
Sample ID: 514924004	Client ID: WNUC009
Matrix: Soil	
Collect Date: 29-JUN-20 09:31	
Receive Date: 01-JUL-20	
Collector: Client	
Moisture: 12%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Rad Alpha Spec Analysis

Alphaspec U, Soil/Veg "Dry Weight Corrected"

Uranium-233/234		0.886	+/-0.353	0.287	0.500	pCi/g			HAKB	07/06/20	2357	2017171	1
Uranium-235/236	U	-0.0375	+/-0.0869	0.258	0.500	pCi/g							
Uranium-238		1.06	+/-0.380	0.274	0.500	pCi/g							

Rad Liquid Scintillation Analysis

Liquid Scint Tc99, Soil "As Received"

Technetium-99	U	-0.171	+/-0.425	0.762	1.00	pCi/g			JJ3	07/07/20	0755	2017085	2
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The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	07/01/20	1717	2016895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, U-02-RC Modified	
2	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			101	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			93	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-41-5	Project: WNUC00901
Sample ID: 514924005	Client ID: WNUC009
Matrix: Soil	
Collect Date: 29-JUN-20 09:40	
Receive Date: 01-JUL-20	
Collector: Client	
Moisture: 10.5%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Rad Alpha Spec Analysis

Alphaspec U, Soil/Veg "Dry Weight Corrected"

Uranium-233/234		1.16	+/-0.420	0.315	0.500	pCi/g			HAKB	07/06/20	2357	2017171	1
Uranium-235/236	U	0.0329	+/-0.123	0.207	0.500	pCi/g							
Uranium-238		1.20	+/-0.427	0.313	0.500	pCi/g							

Rad Liquid Scintillation Analysis

Liquid Scint Tc99, Soil "As Received"

Technetium-99	U	-0.170	+/-0.394	0.708	1.00	pCi/g			JJ3	07/07/20	0832	2017085	2
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The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	07/01/20	1717	2016895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, U-02-RC Modified	
2	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			81.2	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92.1	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-56-1	Project: WNUC00901
Sample ID: 514924006	Client ID: WNUC009
Matrix: Soil	
Collect Date: 29-JUN-20 09:50	
Receive Date: 01-JUL-20	
Collector: Client	
Moisture: 10%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		0.994	+/-0.430	0.420	0.500	pCi/g			HAKB	07/06/20	2357	2017171	1
Uranium-235/236	U	0.0717	+/-0.165	0.261	0.500	pCi/g							
Uranium-238		0.870	+/-0.376	0.268	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0110	+/-0.412	0.725	1.00	pCi/g			JJ3	07/07/20	0910	2017085	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	07/01/20	1717	2016895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, U-02-RC Modified	
2	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			90.3	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.8	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-56-2	Project: WNUC00901
Sample ID: 514924007	Client ID: WNUC009
Matrix: Soil	
Collect Date: 29-JUN-20 09:54	
Receive Date: 01-JUL-20	
Collector: Client	
Moisture: 9.24%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		1.07	+/-0.415	0.292	0.500	pCi/g			HAKB	07/06/20	2357	2017171	1
Uranium-235/236	U	0.0712	+/-0.164	0.259	0.500	pCi/g							
Uranium-238		1.01	+/-0.394	0.182	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.176	+/-0.394	0.708	1.00	pCi/g			JJ3	07/07/20	0947	2017085	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	07/01/20	1717	2016895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, U-02-RC Modified	
2	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			91.1	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.3	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID:	C-56-3	Project:	WNUC00901
Sample ID:	514924008	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	29-JUN-20 09:58		
Receive Date:	01-JUL-20		
Collector:	Client		
Moisture:	10.3%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Rad Alpha Spec Analysis

Alphaspec U, Soil/Veg "Dry Weight Corrected"

Uranium-233/234		1.07	+/-0.391	0.315	0.500	pCi/g			HAKB	07/06/20	2357	2017171	1
Uranium-235/236	U	-0.0285	+/-0.0862	0.242	0.500	pCi/g							
Uranium-238		1.56	+/-0.445	0.154	0.500	pCi/g							

Rad Liquid Scintillation Analysis

Liquid Scint Tc99, Soil "As Received"

Technetium-99	U	-0.227	+/-0.436	0.786	1.00	pCi/g			JJ3	07/07/20	1025	2017085	2
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The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	07/01/20	1717	2016895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, U-02-RC Modified	
2	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			90.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92.5	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-56-4	Project: WNUC00901
Sample ID: 514924009	Client ID: WNUC009
Matrix: Soil	
Collect Date: 29-JUN-20 10:03	
Receive Date: 01-JUL-20	
Collector: Client	
Moisture: 7.91%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		1.35	+/-0.416	0.236	0.500	pCi/g			HAKB	07/06/20	2357	2017171	1
Uranium-235/236	U	0.0108	+/-0.113	0.236	0.500	pCi/g							
Uranium-238		0.890	+/-0.336	0.173	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.00393	+/-0.432	0.759	1.00	pCi/g			JJ3	07/07/20	1102	2017085	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	07/01/20	1717	2016895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, U-02-RC Modified	
2	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			91.1	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94.1	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-56-5	Project: WNUC00901
Sample ID: 514924010	Client ID: WNUC009
Matrix: Soil	
Collect Date: 29-JUN-20 10:11	
Receive Date: 01-JUL-20	
Collector: Client	
Moisture: 9.97%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Rad Alpha Spec Analysis

Alphaspec U, Soil/Veg "Dry Weight Corrected"

Uranium-233/234		1.51	+/-0.428	0.279	0.500	pCi/g			HAKB	07/06/20	2357	2017171	1
Uranium-235/236	U	0.127	+/-0.176	0.263	0.500	pCi/g							
Uranium-238		1.15	+/-0.372	0.241	0.500	pCi/g							

Rad Liquid Scintillation Analysis

Liquid Scint Tc99, Soil "As Received"

Technetium-99	U	-0.298	+/-0.417	0.759	1.00	pCi/g			JJ3	07/07/20	1140	2017085	2
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The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	07/01/20	1717	2016895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, U-02-RC Modified	
2	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			106	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			93.4	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-60-1	Project: WNUC00901
Sample ID: 514924011	Client ID: WNUC009
Matrix: Soil	
Collect Date: 29-JUN-20 10:18	
Receive Date: 01-JUL-20	
Collector: Client	
Moisture: 12.4%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		1.34	+/-0.437	0.315	0.500	pCi/g			HAKB	07/06/20	2357	2017171	1
Uranium-235/236	U	0.216	+/-0.215	0.249	0.500	pCi/g							
Uranium-238		1.47	+/-0.446	0.244	0.500	pCi/g							

Rad Liquid Scintillation Analysis

Liquid Scint Tc99, Soil "As Received"

Technetium-99	U	-0.0837	+/-0.423	0.751	1.00	pCi/g			JJ3	07/07/20	1217	2017085	2
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The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	07/01/20	1717	2016895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, U-02-RC Modified	
2	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			88.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92.7	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-60-2	Project: WNUC00901
Sample ID: 514924012	Client ID: WNUC009
Matrix: Soil	
Collect Date: 29-JUN-20 10:21	
Receive Date: 01-JUL-20	
Collector: Client	
Moisture: 11.5%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Rad Alpha Spec Analysis

Alphaspec U, Soil/Veg "Dry Weight Corrected"

Uranium-233/234		1.29	+/-0.516	0.481	0.500	pCi/g			HAKB	07/06/20	2357	2017171	1
Uranium-235/236	U	0.0299	+/-0.193	0.395	0.500	pCi/g							
Uranium-238		1.18	+/-0.467	0.335	0.500	pCi/g							

Rad Liquid Scintillation Analysis

Liquid Scint Tc99, Soil "As Received"

Technetium-99	U	-0.315	+/-0.421	0.768	1.00	pCi/g			JJ3	07/07/20	1255	2017085	2
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The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	07/01/20	1717	2016895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, U-02-RC Modified	
2	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			72	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94.4	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-60-3	Project: WNUC00901
Sample ID: 514924013	Client ID: WNUC009
Matrix: Soil	
Collect Date: 29-JUN-20 10:24	
Receive Date: 01-JUL-20	
Collector: Client	
Moisture: 7.97%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		0.957	+/-0.383	0.339	0.500	pCi/g			HAKB	07/06/20	2357	2017171	1
Uranium-235/236	U	0.0622	+/-0.143	0.227	0.500	pCi/g							
Uranium-238		1.14	+/-0.404	0.297	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.223	+/-0.415	0.749	1.00	pCi/g			JJ3	07/07/20	1332	2017085	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	07/01/20	1717	2016895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, U-02-RC Modified	
2	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			81.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			90.8	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-60-4	Project: WNUC00901
Sample ID: 514924014	Client ID: WNUC009
Matrix: Soil	
Collect Date: 29-JUN-20 10:31	
Receive Date: 01-JUL-20	
Collector: Client	
Moisture: 8.44%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		1.12	+/-0.390	0.246	0.500	pCi/g			HAKB	07/06/20	2357	2017171	1
Uranium-235/236	U	0.0113	+/-0.118	0.246	0.500	pCi/g							
Uranium-238		0.685	+/-0.308	0.215	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.162	+/-0.425	0.761	1.00	pCi/g			JJ3	07/07/20	1410	2017085	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	07/01/20	1717	2016895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, U-02-RC Modified	
2	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			83.5	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			90.8	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 8, 2020

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-60-5	Project: WNUC00901
Sample ID: 514924015	Client ID: WNUC009
Matrix: Soil	
Collect Date: 29-JUN-20 10:35	
Receive Date: 01-JUL-20	
Collector: Client	
Moisture: 13.8%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Rad Alpha Spec Analysis

Alphaspec U, Soil/Veg "Dry Weight Corrected"

Uranium-233/234		0.851	+/-0.333	0.242	0.500	pCi/g			HAKB	07/06/20	2357	2017171	1
Uranium-235/236		0.150	+/-0.166	0.113	0.500	pCi/g							
Uranium-238		1.02	+/-0.354	0.168	0.500	pCi/g							

Rad Liquid Scintillation Analysis

Liquid Scint Tc99, Soil "As Received"

Technetium-99	U	-0.0162	+/-0.428	0.754	1.00	pCi/g			JJ3	07/07/20	1447	2017085	2
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The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	07/01/20	1717	2016895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, U-02-RC Modified	
2	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			92	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92.7	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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QC Summary

Report Date: July 8, 2020

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Westinghouse Electric Company, LLC

PO Drawer R
Columbia, South Carolina

Contact: Ms. Cynthia Logsdon

Workorder: 514924

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2016999										
QC1204590228	514924001	DUP									
Fluoride		1.31	J	1.02	mg/kg	25.2 ^		(+/-1.13)	LXA2	07/02/20	13:11
QC1204590227	LCS										
Fluoride	24.6			24.9	mg/kg		101	(90%-110%)		07/02/20	12:17
QC1204590226	MB										
Fluoride			U	ND	mg/kg					07/02/20	11:48
QC1204590229	514924001	MS									
Fluoride	27.9	1.31		9.35	mg/kg		28.9*	(75%-125%)		07/02/20	13:38
Batch	2017034										
QC1204590309	514924011	DUP									
Fluoride		U	ND	U	ND	mg/kg	N/A		CH5	07/03/20	22:42
QC1204590308	LCS										
Fluoride	24.6			24.6	mg/kg		100	(90%-110%)		07/03/20	21:46
QC1204590307	MB										
Fluoride			U	ND	mg/kg					07/03/20	21:18
QC1204590310	514924011	MS									
Fluoride	26.7	U	ND	7.30	mg/kg		27.3*	(75%-125%)		07/03/20	23:10
Metals Analysis - ICPMS											
Batch	2016943										
QC1204590120	LCS										
Uranium-235	33.0			31.7	ug/kg		96.1	(80%-120%)	PRB	07/07/20	18:06
Uranium-238	4550			4480	ug/kg		98.4	(80%-120%)			

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QC Summary

Workorder: 514924

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2016943										
QC1204590168	LCS										
Uranium-234	54.5			60.0	ug/kg		110	(80%-120%)	PRB	07/07/20	23:10
QC1204590119	MB										
Uranium-234			U	ND	ug/kg					07/07/20	23:08
Uranium-235			U	ND	ug/kg					07/07/20	18:04
Uranium-238			U	ND	ug/kg						
QC1204590121	514924001	MS									
Uranium-235	37.8	J	10.3	54.9	ug/kg		118	(75%-125%)		07/07/20	18:10
Uranium-238	5210		1170	6560	ug/kg		103	(75%-125%)			
QC1204590169	514924001	MS									
Uranium-234	59.6	U	ND	61.7	ug/kg		103	(75%-125%)		07/07/20	23:14
QC1204590122	514924001	MSD									
Uranium-235	39.4	J	10.3	91.6	ug/kg	50.1*	206*	(0%-20%)		07/07/20	18:11
Uranium-238	5440		1170	8340	ug/kg	23.9*	132*	(0%-20%)			
QC1204590170	514924001	MSD									
Uranium-234	58.3	U	ND	63.6	ug/kg	3.04	109	(0%-20%)		07/07/20	23:15
QC1204592690	514924001	PS									
Uranium-235	0.180	J	0.0497	0.232	ug/L		102	(75%-125%)		07/07/20	18:13
Uranium-238	24.8		5.65	31.0	ug/L		102	(75%-125%)			
QC1204590123	514924001	SDILT									
Uranium-234		U	ND	U	ND	ug/L	N/A	(0%-20%)		07/07/20	23:17

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QC Summary

Workorder: 514924

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2016943										
Uranium-235	J	0.0497	U	ND	ug/L	N/A		(0%-20%)	PRB	07/07/20	18:15
Uranium-238		5.65		1.08	ug/L	4.25		(0%-20%)			
Volatile-GC/MS											
Batch	2017923										
QC1204592433	LCS										
1,1,1-Trichloroethane	50.0			44.9	ug/kg		90	(70%-130%)	MXL2	07/07/20	10:13
1,1,2,2-Tetrachloroethane	50.0			50.8	ug/kg		102	(70%-130%)			
1,1,2-Trichloroethane	50.0			48.4	ug/kg		97	(70%-130%)			
1,1-Dichloroethane	50.0			48.2	ug/kg		96	(70%-130%)			
1,1-Dichloroethylene	50.0			46.3	ug/kg		93	(70%-130%)			
1,2,3-Trichlorobenzene	50.0			50.0	ug/kg		100	(70%-130%)			
1,2,4-Trichlorobenzene	50.0			49.7	ug/kg		99	(70%-130%)			
1,2-Dibromo-3-chloropropane	50.0			50.3	ug/kg		101	(70%-130%)			
1,2-Dibromoethane	50.0			48.2	ug/kg		96	(70%-130%)			
1,2-Dichlorobenzene	50.0			51.5	ug/kg		103	(70%-130%)			
1,2-Dichloroethane	50.0			44.5	ug/kg		89	(70%-130%)			
1,2-Dichloropropane	50.0			51.8	ug/kg		104	(70%-130%)			

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QC Summary

Workorder: 514924

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2017923										
1,3-Dichlorobenzene	50.0			49.6	ug/kg		99	(70%-130%)	MXL2	07/07/20	10:13
1,4-Dichlorobenzene	50.0			50.0	ug/kg		100	(70%-130%)			
2-Butanone	250			198	ug/kg		79	(70%-130%)			
2-Hexanone	250			210	ug/kg		84	(70%-130%)			
4-Methyl-2-pentanone	250			227	ug/kg		91	(70%-130%)			
Acetone	250			186	ug/kg		74	(70%-130%)			
Benzene	50.0			49.5	ug/kg		99	(70%-130%)			
Bromochloromethane	50.0			48.3	ug/kg		97	(70%-130%)			
Bromodichloromethane	50.0			49.3	ug/kg		99	(70%-130%)			
Bromoform	50.0			54.2	ug/kg		108	(70%-130%)			
Bromomethane	50.0			47.1	ug/kg		94	(70%-130%)			
Carbon disulfide	250			226	ug/kg		90	(70%-130%)			
Carbon tetrachloride	50.0			46.0	ug/kg		92	(70%-130%)			
Chlorobenzene	50.0			49.6	ug/kg		99	(70%-130%)			
Chloroethane	50.0			51.1	ug/kg		102	(70%-130%)			

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QC Summary

Workorder: 514924

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2017923										
Chloroform	50.0			47.1	ug/kg		94	(70%-130%)	MXL2	07/07/20	10:13
Chloromethane	50.0			40.7	ug/kg		81	(70%-130%)			
Cyclohexane	50.0			45.5	ug/kg		91	(70%-130%)			
Dibromochloromethane	50.0			49.7	ug/kg		99	(70%-130%)			
Dichlorodifluoromethane	50.0			47.4	ug/kg		95	(70%-130%)			
Ethylbenzene	50.0			45.4	ug/kg		91	(70%-130%)			
Isopropylbenzene	50.0			47.8	ug/kg		96	(70%-130%)			
Methyl acetate	250			216	ug/kg		87	(70%-130%)			
Methylcyclohexane	50.0			46.9	ug/kg		94	(70%-130%)			
Methylene chloride	50.0			42.7	ug/kg		85	(70%-130%)			
Styrene	50.0			47.6	ug/kg		95	(70%-130%)			
Tetrachloroethylene	50.0			47.0	ug/kg		94	(70%-130%)			
Toluene	50.0			45.7	ug/kg		91	(70%-130%)			
Trichloroethylene	50.0			48.2	ug/kg		96	(70%-130%)			
Trichlorofluoromethane	50.0			41.7	ug/kg		83	(70%-130%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2017923										
Vinyl chloride	50.0			47.9	ug/kg		96	(70%-130%)	MXL2	07/07/20	10:13
cis-1,2-Dichloroethylene	50.0			45.8	ug/kg		92	(70%-130%)			
cis-1,3-Dichloropropylene	50.0			51.7	ug/kg		103	(70%-130%)			
m,p-Xylenes	100			92.3	ug/kg		92	(70%-130%)			
o-Xylene	50.0			44.8	ug/kg		90	(70%-130%)			
tert-Butyl methyl ether	50.0			44.0	ug/kg		88	(70%-130%)			
trans-1,2-Dichloroethylene	50.0			44.8	ug/kg		90	(70%-130%)			
trans-1,3-Dichloropropylene	50.0			47.9	ug/kg		96	(70%-130%)			
**1,2-Dichloroethane-d4	50.0			44.7	ug/L		89	(81%-124%)			
**Bromofluorobenzene	50.0			50.0	ug/L		100	(70%-130%)			
**Toluene-d8	50.0			47.3	ug/L		95	(81%-120%)			
QC1204592434 LCSD											
1,1,1-Trichloroethane	50.0			45.5	ug/kg	1	91	(0%-20%)		07/07/20	10:40
1,1,2,2-Tetrachloroethane	50.0			50.2	ug/kg	1	100	(0%-20%)			
1,1,2-Trichloroethane	50.0			48.3	ug/kg	0	97	(0%-20%)			
1,1-Dichloroethane	50.0			49.3	ug/kg	2	99	(0%-20%)			

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QC Summary

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2017923										
1,1-Dichloroethylene	50.0			49.4	ug/kg	7	99	(0%-20%)	MXL2	07/07/20	10:40
1,2,3-Trichlorobenzene	50.0			50.1	ug/kg	0	100	(0%-20%)			
1,2,4-Trichlorobenzene	50.0			48.1	ug/kg	3	96	(0%-20%)			
1,2-Dibromo-3-chloropropane	50.0			49.4	ug/kg	2	99	(0%-20%)			
1,2-Dibromoethane	50.0			47.5	ug/kg	2	95	(0%-20%)			
1,2-Dichlorobenzene	50.0			50.0	ug/kg	3	100	(0%-20%)			
1,2-Dichloroethane	50.0			44.0	ug/kg	1	88	(0%-20%)			
1,2-Dichloropropane	50.0			49.9	ug/kg	4	100	(0%-20%)			
1,3-Dichlorobenzene	50.0			47.3	ug/kg	5	95	(0%-20%)			
1,4-Dichlorobenzene	50.0			47.1	ug/kg	6	94	(0%-20%)			
2-Butanone	250			206	ug/kg	4	83	(0%-20%)			
2-Hexanone	250			203	ug/kg	3	81	(0%-20%)			
4-Methyl-2-pentanone	250			218	ug/kg	4	87	(0%-20%)			
Acetone	250			200	ug/kg	7	80	(0%-20%)			
Benzene	50.0			48.7	ug/kg	2	97	(0%-20%)			

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QC Summary

Workorder: 514924

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2017923										
Bromochloromethane	50.0			52.7	ug/kg	9	105	(0%-20%)	MXL2	07/07/20	10:40
Bromodichloromethane	50.0			48.7	ug/kg	1	97	(0%-20%)			
Bromoform	50.0			53.1	ug/kg	2	106	(0%-20%)			
Bromomethane	50.0			49.7	ug/kg	5	99	(0%-20%)			
Carbon disulfide	250			236	ug/kg	4	94	(0%-20%)			
Carbon tetrachloride	50.0			46.3	ug/kg	1	93	(0%-20%)			
Chlorobenzene	50.0			47.4	ug/kg	5	95	(0%-20%)			
Chloroethane	50.0			52.8	ug/kg	3	106	(0%-20%)			
Chloroform	50.0			49.8	ug/kg	6	100	(0%-20%)			
Chloromethane	50.0			42.6	ug/kg	5	85	(0%-20%)			
Cyclohexane	50.0			48.9	ug/kg	7	98	(0%-20%)			
Dibromochloromethane	50.0			47.9	ug/kg	4	96	(0%-20%)			
Dichlorodifluoromethane	50.0			48.1	ug/kg	1	96	(0%-20%)			
Ethylbenzene	50.0			43.7	ug/kg	4	87	(0%-20%)			
Isopropylbenzene	50.0			47.3	ug/kg	1	95	(0%-20%)			

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QC Summary

Workorder: 514924

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2017923										
Methyl acetate	250			224	ug/kg	4	90	(0%-20%)	MXL2	07/07/20	10:40
Methylcyclohexane	50.0			45.8	ug/kg	2	92	(0%-20%)			
Methylene chloride	50.0			49.1	ug/kg	14	98	(0%-20%)			
Styrene	50.0			45.2	ug/kg	5	90	(0%-20%)			
Tetrachloroethylene	50.0			44.0	ug/kg	7	88	(0%-20%)			
Toluene	50.0			44.5	ug/kg	3	89	(0%-20%)			
Trichloroethylene	50.0			46.7	ug/kg	3	93	(0%-20%)			
Trichlorofluoromethane	50.0			41.2	ug/kg	1	82	(0%-20%)			
Vinyl chloride	50.0			49.6	ug/kg	3	99	(0%-20%)			
cis-1,2-Dichloroethylene	50.0			49.9	ug/kg	9	100	(0%-20%)			
cis-1,3-Dichloropropylene	50.0			49.7	ug/kg	4	99	(0%-20%)			
m,p-Xylenes	100			89.0	ug/kg	4	89	(0%-20%)			
o-Xylene	50.0			43.2	ug/kg	4	86	(0%-20%)			
tert-Butyl methyl ether	50.0			48.1	ug/kg	9	96	(0%-20%)			
trans-1,2-Dichloroethylene	50.0			48.9	ug/kg	9	98	(0%-20%)			

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QC Summary

Workorder: 514924

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2017923										
trans-1,3-Dichloropropylene	50.0			46.5	ug/kg	3	93	(0%-20%)	MXL2	07/07/20	10:40
**1,2-Dichloroethane-d4	50.0			45.1	ug/L		90	(81%-124%)			
**Bromofluorobenzene	50.0			50.1	ug/L		100	(70%-130%)			
**Toluene-d8	50.0			46.5	ug/L		93	(81%-120%)			
QC1204592432 MB											
1,1,1-Trichloroethane			U	ND	ug/kg					07/07/20	12:00
1,1,2,2-Tetrachloroethane			U	ND	ug/kg						
1,1,2-Trichloroethane			U	ND	ug/kg						
1,1-Dichloroethane			U	ND	ug/kg						
1,1-Dichloroethylene			U	ND	ug/kg						
1,2,3-Trichlorobenzene			U	ND	ug/kg						
1,2,4-Trichlorobenzene			U	ND	ug/kg						
1,2-Dibromo-3-chloropropane			U	ND	ug/kg						
1,2-Dibromoethane			U	ND	ug/kg						
1,2-Dichlorobenzene			U	ND	ug/kg						
1,2-Dichloroethane			U	ND	ug/kg						

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QC Summary

Workorder: 514924

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2017923										
1,2-Dichloropropane			U	ND	ug/kg				MXL2	07/07/20	12:00
1,3-Dichlorobenzene			U	ND	ug/kg						
1,4-Dichlorobenzene			U	ND	ug/kg						
1,4-Dioxane			U	ND	ug/kg						
2-Butanone			U	ND	ug/kg						
2-Hexanone			U	ND	ug/kg						
4-Methyl-2-pentanone			U	ND	ug/kg						
Acetone			U	ND	ug/kg						
Benzene			U	ND	ug/kg						
Bromochloromethane			U	ND	ug/kg						
Bromodichloromethane			U	ND	ug/kg						
Bromoform			U	ND	ug/kg						
Bromomethane			U	ND	ug/kg						
Carbon disulfide			U	ND	ug/kg						
Carbon tetrachloride			U	ND	ug/kg						

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QC Summary

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2017923										
Chlorobenzene			U	ND	ug/kg				MXL2	07/07/20	12:00
Chloroethane			U	ND	ug/kg						
Chloroform			U	ND	ug/kg						
Chloromethane			U	ND	ug/kg						
Cyclohexane			U	ND	ug/kg						
Dibromochloromethane			U	ND	ug/kg						
Dichlorodifluoromethane			U	ND	ug/kg						
Ethylbenzene			U	ND	ug/kg						
Isopropylbenzene			U	ND	ug/kg						
Methyl acetate			U	ND	ug/kg						
Methylcyclohexane			U	ND	ug/kg						
Methylene chloride			U	ND	ug/kg						
Styrene			U	ND	ug/kg						
Tetrachloroethylene			U	ND	ug/kg						
Toluene			U	ND	ug/kg						

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QC Summary

Workorder: 514924

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2017923										
Trichloroethylene			U	ND	ug/kg				MXL2	07/07/20	12:00
Trichlorofluoromethane			U	ND	ug/kg						
Trichlorotrifluoroethane			U	ND	ug/kg						
Vinyl chloride			U	ND	ug/kg						
cis-1,2-Dichloroethylene			U	ND	ug/kg						
cis-1,3-Dichloropropylene			U	ND	ug/kg						
m,p-Xylenes			U	ND	ug/kg						
o-Xylene			U	ND	ug/kg						
tert-Butyl methyl ether			U	ND	ug/kg						
trans-1,2-Dichloroethylene			U	ND	ug/kg						
trans-1,3-Dichloropropylene			U	ND	ug/kg						
**1,2-Dichloroethane-d4	50.0			45.9	ug/L		92	(81%-124%)			
**Bromofluorobenzene	50.0			48.4	ug/L		97	(70%-130%)			
**Toluene-d8	50.0			48.2	ug/L		96	(81%-120%)			

Notes:

The Qualifiers in this report are defined as follows:

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QC Summary

Workorder: 514924

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
**	Analyte is a surrogate compound										
<	Result is less than value reported										
>	Result is greater than value reported										
A	The TIC is a suspected aldol-condensation product										
B	The target analyte was detected in the associated blank.										
C	Analyte has been confirmed by GC/MS analysis										
D	Results are reported from a diluted aliquot of the sample										
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria										
E	Concentration of the target analyte exceeds the instrument calibration range										
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range										
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies										
H	Analytical holding time was exceeded										
J	See case narrative for an explanation										
J	Value is estimated										
JNX	Non Calibrated Compound										
N	Metals--The Matrix spike sample recovery is not within specified control limits										
N	Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor										
N	Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor										
N/A	RPD or %Recovery limits do not apply.										
N1	See case narrative										
ND	Analyte concentration is not detected above the detection limit										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
P	Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, the difference is >70%.										
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.										
UJ	Compound cannot be extracted										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.										
Y	QC Samples were not spiked with this compound										
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
d	5-day BOD--The 2:1 depletion requirement was not met for this sample										
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes										

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QC Summary

Workorder: 514924

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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h Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

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QC Summary

Report Date: July 8, 2020

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Westinghouse Electric Company, LLC

PO Drawer R
Columbia, South Carolina

Contact: Ms. Cynthia Logsdon

Workorder: 514924

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2016999										
QC1204590228	514924001	DUP									
Fluoride		1.31	J	1.02	mg/kg	25.2 ^		(+/-1.13)	LXA2	07/02/20	13:11
QC1204590227	LCS										
Fluoride	24.6			24.9	mg/kg		101	(90%-110%)		07/02/20	12:17
QC1204590226	MB										
Fluoride			U	0.000	mg/kg					07/02/20	11:48
QC1204590229	514924001	MS									
Fluoride	27.9	1.31		9.35	mg/kg		28.9*	(75%-125%)		07/02/20	13:38
Batch	2017034										
QC1204590309	514924011	DUP									
Fluoride		U	0.000	U	0.000	mg/kg	N/A		CH5	07/03/20	22:42
QC1204590308	LCS										
Fluoride	24.6			24.6	mg/kg		100	(90%-110%)		07/03/20	21:46
QC1204590307	MB										
Fluoride			U	0.000	mg/kg					07/03/20	21:18
QC1204590310	514924011	MS									
Fluoride	26.7	U	0.000	7.30	mg/kg		27.3*	(75%-125%)		07/03/20	23:10
Rad Alpha Spec											
Batch	2017171										
QC1204590576	514924001	DUP									
Uranium-233/234		1.33		1.41	pCi/g	6.34		(0%-20%)	HAKB	07/06/20	23:57
Uranium-235/236		U	0.136	U	0.187	pCi/g	N/A		N/A		

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QC Summary

Workorder: 514924

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Alpha Spec											
Batch	2017171										
Uranium-238		0.679		0.620	pCi/g	9.06		(0% - 100%)	HAKB	07/06/20	23:57
QC1204590577	LCS										
Uranium-233/234				13.0	pCi/g					07/06/20	23:58
Uranium-235/236				1.26	pCi/g						
Uranium-238	13.1			14.5	pCi/g		111	(75%-125%)			
QC1204590575	MB										
Uranium-233/234			U	0.135	pCi/g					07/06/20	23:57
Uranium-235/236			U	-0.00981	pCi/g						
Uranium-238			U	0.00926	pCi/g						
Rad Liquid Scintillation											
Batch	2017085										
QC1204590420	514924001	DUP									
Technetium-99		U	-0.396	U	-0.0271	pCi/g	N/A		N/A	JJ3	07/07/20 16:02
QC1204590421	LCS										
Technetium-99	28.7			28.2	pCi/g		98.3	(75%-125%)		07/07/20	16:40
QC1204590419	MB										
Technetium-99			U	-0.182	pCi/g					07/07/20	15:25

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a Tracer compound
- < Result is less than value reported
- > Result is greater than value reported
- B The target analyte was detected in the associated blank.

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QC Summary

Workorder: 514924

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
BD		Results are either below the MDC or tracer recovery is low									
E		General Chemistry--Concentration of the target analyte exceeds the instrument calibration range									
FA		Failed analysis.									
H		Analytical holding time was exceeded									
J		See case narrative for an explanation									
J		Value is estimated									
K		Analyte present. Reported value may be biased high. Actual value is expected to be lower.									
L		Analyte present. Reported value may be biased low. Actual value is expected to be higher.									
M		M if above MDC and less than LLD									
M		REMP Result > MDC/CL and < RDL									
N/A		RPD or %Recovery limits do not apply.									
N1		See case narrative									
ND		Analyte concentration is not detected above the detection limit									
NJ		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Q		One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
R		Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.									
R		Sample results are rejected									
U		Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.									
UI		Gamma Spectroscopy--Uncertain identification									
UJ		Gamma Spectroscopy--Uncertain identification									
UL		Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
X		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y		Other specific qualifiers were required to properly define the results. Consult case narrative.									
Z		Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.									
^		RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
d		5-day BOD--The 2:1 depletion requirement was not met for this sample									
e		5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes									
h		Preparation or preservation holding time was exceeded									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Technical Case Narrative
Westinghouse Electric Co, LLC
SDG #: 514924**

GC/MS Volatile

Product: Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer

Analytical Method: SW846 8260D

Analytical Procedure: GL-OA-E-038 REV# 28

Analytical Batch: 2017923

Preparation Method: SW846 5035

Preparation Procedure: GL-OA-E-039 REV# 13

Preparation Batch: 2017922

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
514924003	C-41-3
514924008	C-56-3
514924009	C-56-4
514924013	C-60-3
1204592432	Method Blank (MB)
1204592433	Laboratory Control Sample (LCS)
1204592434	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on a "dry weight" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3050B/6020B

Analytical Procedure: GL-MA-E-014 REV# 33

Analytical Batch: 2016943

Preparation Method: SW846 3050B

Preparation Procedure: GL-MA-E-009 REV# 29

Preparation Batch: 2016942

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
514924001	C-41-1

514924006	C-56-1
1204590119	Method Blank (MB)ICP-MS
1204590120	Laboratory Control Sample (LCS)
1204590168	Laboratory Control Sample (LCS)
1204590123	514924001(C-41-1L) Serial Dilution (SD)
1204590121	514924001(C-41-1S) Matrix Spike (MS)
1204590169	514924001(C-41-1S) Matrix Spike (MS)
1204590122	514924001(C-41-1SD) Matrix Spike Duplicate (MSD)
1204590170	514924001(C-41-1SD) Matrix Spike Duplicate (MSD)
1204592690	514924001(C-41-1PS) Post Spike (PS)

The samples in this SDG were analyzed on a "dry weight" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement

The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike recovery was within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recovery may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1204590122 (C-41-1MSD)	Uranium-235	206* (75%-125%)
	Uranium-238	132* (75%-125%)

MS/MSD Relative Percent Difference (RPD) Statement

The RPD values between qualifying analyte results in the MS and MSD were not within the acceptance limits. Sample non-homogeneity and/or possible matrix interferences may be suspected.

Sample	Analyte	Value
1204590121MS and 1204590122MSD (C-41-1)	Uranium-235	RPD 50.1* (0%-20%)
	Uranium-238	RPD 23.9* (0%-20%)

Technical Information

Preparation/Analytical Method Verification

Method SW-846 3050B is not a total digestion technique for most samples. It is a very strong acid digestion that

will dissolve almost all elements that could become environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not usually mobile in the environment.

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. The ICPMS solid samples in this SDG were diluted the standard two times.

Analyte	514924	
	001	006
Uranium-234	2X	2X
Uranium-235	2X	2X
Uranium-238	2X	2X

General Chemistry

Product: Ion Chromatography

Analytical Method: SW846 9056A

Analytical Procedure: GL-GC-E-086 REV# 28

Analytical Batches: 2016999 and 2016998

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
514924001	C-41-1
514924002	C-41-2
514924003	C-41-3
514924004	C-41-4
514924005	C-41-5
514924006	C-56-1
514924007	C-56-2
514924008	C-56-3
514924009	C-56-4
514924010	C-56-5
1204590226	Method Blank (MB)
1204590227	Laboratory Control Sample (LCS)
1204590228	514924001(C-41-1) Sample Duplicate (DUP)
1204590229	514924001(C-41-1) Matrix Spike (MS)

The samples in this SDG were analyzed on a "dry weight" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is

less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Fluoride	1204590229 (C-41-1MS)	28.9* (75%-125%)

Product: Ion Chromatography

Analytical Method: SW846 9056A

Analytical Procedure: GL-GC-E-086 REV# 28

Analytical Batches: 2017034 and 2017032

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
514924011	C-60-1
514924012	C-60-2
514924013	C-60-3
514924014	C-60-4
514924015	C-60-5
1204590307	Method Blank (MB)
1204590308	Laboratory Control Sample (LCS)
1204590309	514924011(C-60-1) Sample Duplicate (DUP)
1204590310	514924011(C-60-1) Matrix Spike (MS)

The samples in this SDG were analyzed on a "dry weight" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Fluoride	1204590310 (C-60-1MS)	27.3* (75%-125%)

Radiochemistry

Product: Alphaspec U, Soil/Veg

Analytical Method: DOE EML HASL-300, U-02-RC Modified

Analytical Procedure: GL-RAD-A-011 REV# 27

Analytical Batch: 2017171

Preparation Method: Dry Soil Prep

Preparation Procedure: GL-RAD-A-021 REV# 23

Preparation Batch: 2016895

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
514924001	C-41-1
514924002	C-41-2
514924003	C-41-3
514924004	C-41-4
514924005	C-41-5
514924006	C-56-1
514924007	C-56-2
514924008	C-56-3
514924009	C-56-4
514924010	C-56-5
514924011	C-60-1
514924012	C-60-2
514924013	C-60-3
514924014	C-60-4
514924015	C-60-5
1204590575	Method Blank (MB)
1204590576	514924001(C-41-1) Sample Duplicate (DUP)
1204590577	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on a "dry weight" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Dry Weight

Preparation Method: ASTM D 2216 (Modified)

Preparation Procedure: GL-OA-E-020 REV# 13

Preparation Batch: 2016895

Preparation Method: Dry Soil Prep

Preparation Procedure: GL-RAD-A-021 REV# 23

Preparation Batch: 2016895

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
------------------------------	--

514924001	C-41-1
514924002	C-41-2
514924003	C-41-3
514924004	C-41-4
514924005	C-41-5
514924006	C-56-1
514924007	C-56-2
514924008	C-56-3
514924009	C-56-4
514924010	C-56-5
514924011	C-60-1
514924012	C-60-2
514924013	C-60-3
514924014	C-60-4
514924015	C-60-5
1204590011	514924001(C-41-1) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Liquid Scint Tc99, Soil

Analytical Method: DOE EML HASL-300, Tc-02-RC Modified

Analytical Procedure: GL-RAD-A-059 REV# 5

Analytical Batch: 2017085

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
514924001	C-41-1
514924002	C-41-2
514924003	C-41-3
514924004	C-41-4
514924005	C-41-5
514924006	C-56-1
514924007	C-56-2
514924008	C-56-3
514924009	C-56-4
514924010	C-56-5
514924011	C-60-1
514924012	C-60-2
514924013	C-60-3
514924014	C-60-4
514924015	C-60-5
1204590419	Method Blank (MB)
1204590420	514924001(C-41-1) Sample Duplicate (DUP)
1204590421	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
Chain of Custody and Analytical Request
GEL Project Manager:
 Phone # 803.647.3171
 Fax # 803.695.3964

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code ⁽²⁾	Field Filtered ⁽³⁾	Sample Matrix ⁽⁴⁾	Should this sample be considered:		Sample Analysis Requested ⁽⁵⁾ (Fill in the number of containers for each test)					Comments		
						Yes, please supply isotopic info.)	(?) Known or possible Hazards	Total number of containers	Isotopic Uranium by Alpha Spec	Isotopic Uranium by ICPMS	Tc-99	Fluoride		VOCs	<-- Preservative Type (6)
C-41-1	6/29/2020	0918	G		SO			1	X	X					
C-41-2	6/29/2020	0922	G		SO			1	X	X					
C-41-3	6/29/2020	0926	G		SO			1	X	X					
C-41-4	6/29/2020	0931	G		SO			1	X	X					
C-41-5	6/29/2020	0940	G		SO			1	X	X					
C-56-1	6/29/2020	0950	G		SO			1	X	X					
C-56-2	6/29/2020	0954	G		SO			1	X	X					
C-56-3	6/29/2020	0958	G		SO			1	X	X					
C-56-4	6/29/2020	1003	G		SO			1	X	X					
C-56-5	6/29/2020	1011	G		SO			1	X	X					

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<u>Randy Crews</u>	07/01/2020		07/01/2020	1025
<u>[Signature]</u>	07/01/2020			1150
<u>[Signature]</u>	07/01/2020			1535

1. Secure Location: 1 Randy Crews 07/01/2020 / 1025
 2. Secure Location: 2 [Signature] 07/01/2020 / 1150
 3. Secure Location: 3 [Signature] 07/01/2020 / 1535

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

Chain of Custody Signatures

Relinquished By (Signed) _____ Date _____ Received by (signed) _____ Date _____ Time _____

1. Secure Location: 1 Randy Crews 07/01/2020 / 1025
 2. Secure Location: 2 [Signature] 07/01/2020 / 1150
 3. Secure Location: 3 [Signature] 07/01/2020 / 1535

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Feecal, N=Nasal
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards: FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive
 Listed Waste: LW = Listed Waste
(F,K,P and U-listed wastes.)
 Waste code(s): _____
 RCRA Metals: Hg= Mercury
As = Arsenic
Ba = Barium
Se = Selenium
Cd = Cadmium
Ag = Silver
Cr = Chromium
MR = Misc. RCRA metals
Ph = Lead
TSCA Regulated
PCB = Polychlorinated biphenyls
 Other: OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
Chain of Custody and Analytical Request
 GEL Project Manager:
 Phone # 803.647.3171
 Fax # 803.695.3964

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military (hhmm))	QC Code	Field Filtered	Sample Matrix	Should this sample be considered:		Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)				Comments	
						Yes, please supply isotopic info)	(7) Known or possible Hazards		Alpha Spec	Isotopic Uranium by ICPMS	Tc-99	Fluoride		VOCs
C-60-1	6/29/2020	1018	G		SO			1	X	X				
C-60-2	6/29/2020	1021	G		SO			1	X	X				
C-60-3	6/29/2020	1024	G		SO			1	X	X	X			
C-60-4	6/29/2020	1031	G		SO			1	X	X	X			
C-60-5	6/29/2020	1035	G		SO			1	X	X	X			

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<u>Randy Crews</u>	07/01/2020			1025
<u>[Signature]</u>	07/01/2020			1150
<u>[Signature]</u>	07/01/2020			1535

TAT Requested: Normal: X Rush: X Specify: 5 days (1 week)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks:
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: 1 °C
 Sample Collection Time Zone: Eastern Pacific Mountain Other.

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 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
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 7.) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards: FL = Flammable/ignitable, LW = Listed Waste, CO = Corrosive, RE = Reactive, TSCA Regulated, PCB = Polychlorinated biphenyls
 Listed Waste: LW = Listed Waste (F, K, P and U-listed wastes), Waste code(s):
 Other: OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description:
 Please provide any additional details below regarding handling and/or disposal of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

514924

Client: <u>WNUC</u>		SDG/AR/COC/Work Order:			
Received By: <u>ZKW</u>		Date Received: <u>7/1/20</u>			
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services <u>Courier</u> Other			
Suspected Hazard Information		Yes	No		
*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.					
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___		
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.		
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>300</u> (PM) mR/Hr Classified as: <u>Rad 1</u> Rad 2 Rad 3		
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.		
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:		
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>			Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>1°C</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: <u>IR3-18</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>			If Yes, are Encores or Soil Kits present for solids? Yes <input checked="" type="checkbox"/> No ___ NA ___ (If yes, take to VOA Freezer)
					Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA <input checked="" type="checkbox"/> (If unknown, select: No)
					Are liquid VOA vials free of headspace? Yes ___ No ___ NA <input checked="" type="checkbox"/>
8	Samples received within holding time?	<input checked="" type="checkbox"/>			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>			
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed):					

List of current GEL Certifications as of 08 July 2020

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122020-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-20-17
Utah NELAP	SC000122020-32
Vermont	VT87156
Virginia NELAP	460202
Washington	C780