From: Joyner, Diana P <joynerdp@westinghouse.com>
Sent: Wednesday, December 9, 2020 11:56 AM
To: Kuhn, Kimberly M. <kuhnkm@dhec.sc.gov>
Cc: Parr, Nancy B. <parrnb@westinghouse.com>; Ferguson, Jeffery B <fergusjb@westinghouse.com>; Grant, Jeremy <jeremy.grant@aecom.com>
Subject: November 2020 Monthly Progress Report

Kim-

Please find attached the progress report for the month of **November** 2020.

Please note the following:

1. The information contained in the report spans from November 5-30.
2. There are 2 parts to this submission. Part 1 is the written report with tabulated data and intermodal/sealand figures. Part 1 was generated as a pdf portfolio because that was the only way Adobe would allow me to merge the documents. Part II consists of all the GEL lab reports and is a regular pdf.

Please let me know if you have any questions.

Thanks,

Diana

Diana P. Joyner
Principal Environmental Engineer
Westinghouse Electric Company, LLC
Columbia Fuel Fabrication Facility
joynerdp@westinghouse.com
803.647.1920 (office) | 803.497.7062 (mobile)

Westinghouse

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-20-90

December 9, 2020

Subject: **November** 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 **November 5, 2020 and through November 30, 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.
- Completed the following activities to support the Southern Storage Area (SSA) Operable Unit (OU) Work Plan:

- Emptied the last 2 intermodal containers containing contaminated equipment (C-7 and C-11).
- Excavated soil under intermodal containers C-19, C-69, S-45, and S-46 and conducted soil sampling on the following dates for intermodal containers:
  - November 5: Confirmatory soil sampling following excavation for C-19, C-69, S-45 and S-46.
  - November 17 (2901s): Systematic sampling under C-7, C-10, and C-11.

- Completed the following to support the **Phase II** Work Plan.
  - Sediment sampling:
    - Lower Sunset Lake: Samples collected from locations SED-19 through SED-21 and SED-38 through SED-42
    - Gator Pond: Samples collected from locations SED-23, SED-24, and SED-62 through SED-65
    - Middle Ditch: Samples collected from locations SED-16, SED-60 and SED-61
  - Lithology only (Sonic):
    - Lithology obtained at locations L-25 through L-36.
  - Lithology and Groundwater Screening (DPT):
    - Lithology and groundwater screening samples obtained from L-20 through L-24, L-39, and L-40.
    - Groundwater from boring L-20 was proposed to be collected from the upper zone of the surficial aquifer in the approved *Phase II Remedial Investigation Work Plan*. Because groundwater results in the lower zone of the surficial aquifer from boring L-39 contained tetrachloroethene above its maximum contaminant level (MCL), Mr. Jeremy Grant of AECOM called Ms. Kim Kuhn on November 23, 2020 to request a field revision to the scope of work to collect groundwater from boring L-20 in the lower zone also. Ms. Kuhn approved the request.
  - Installed the soil gas sampling devices in the primary soil gas survey area.

(b) Results of sampling and tests:

- In September of 2020, soil sampling was conducted under intermodal containers as follows:
  - September 9: **C-48, C-49, C-68, C-69, C-70,** and **C-71**
  - September 10: **C-13, C-19, C-21, C-24,** and **C-62**
  - September 12**: C-36, C-37,** and **C-54**
  - September 15: **S-45, S-46** and **ERT** ("Emergency Response Team" supply storage)
  - September 22: **C-9** and **S-5**
  - September 24: **C-22, C-23, C-61,** and **C-64**
  - September 25: **C-4** and **C-55**
  - September 26: **C-15, C-17, C-34, C-38, S-38** and **C-47**
  - September 30**: C-8**
- Systematic and bias soil sampling was conducted in accordance with the approved SSAOU Soil Sampling Work Plan.

- All soil samples collected were below residential screening levels (RSL), including the bias sampling locations with the exception of C-69, C-19, C-21, S-45, and S-46 (notated by red text above and in the attached tabulated results).
  - C-19, C-69, S-45, and S-46 exceeded the RSL for Uranium (U).
  - C-21 exceeded the RSL for tetrachloroethylene (0.0056 mg/kg versus the RSL of 0.0023 mg/kg).
- Soil that exceeded the RSL for U was excavated, as mentioned in item (a) above and the affected areas were sampled again (confirmatory soil sampling). Confirmatory soil sampling results underneath intermodal containers C-19, C-69, S-45 and S-46 were all below the RSL for U, meaning that the remedial action was complete.
- Analytical results of the soil sampling along with graphics, are included in this monthly report as Attachments A-C.

- In November of 2020, soil sampling was conducted under intermodal containers as follows:
  - November 17: **C-7, C-10,** and **C-11**
- Systematic and bias soil sampling was conducted in accordance with the approved SSAOU Soil Sampling Work Plan.
- All soil samples collected were below residential screening levels (RSL), including the bias sampling locations.
- Analytical results of the soil sampling along with graphics, are included in this monthly report as Attachments A and B.

(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 to empty and remove other intermodal containers from the site (also known as "sheds") and conduct soil sampling underneath their former footprints.
- Develop a plan to safely excavate soil near a buried electrical utility that is underneath the former C-21 footprint and exceeds the RSL for tetrachloroethylene (0.0056 mg/kg versus the RSL of 0.0023 mg/kg).
  - Submit a consolidated table and graphic for tetrachloroethylene detections in the SSAOU.
- Complete the following elements of RI Phase II field work, weather permitting.
  - Sediment sampling in Upper Sunset Lake and Mill Creek
  - Groundwater screening
  - Collect the soil gas sampling devices in the primary soil gas survey area.
- Continue preparations for East Lagoon closure in 2021.

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

- 10 % of Phase II Work Scope Completed. Currently there are no anticipated delays.

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

SSAOU Tabulated Soil Sampling Results

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

September 2020 Sampling Events

C-48	C-49	C-68	C-69	C-70	C-71
C-19	C-21	C-24	C-62	C-13	C-36
C-37	C-54	S-45	S-46	ERT	
C-9	S-5	C-34	C-38	S-38	C-47
C-8	C-64	C-4	C-55	C-15	C-17
C-23	C-22	C-61			

November 2020 Sampling Event

C-7	C-10	C-11

Drawing with Soil Sampling Results

Attachment B

Southern Storage Area Operable Unit Soil Sampling- GEL Analytical Results

Initial Sampling Events

C-48	C-49	C-68	C-69	C-70	C-71

Sampling conducted: September 8, 2020
GEL Work Order: 520919
Report Date: September 23, 2020

C-19	C-21	C-24	C-62	C-13	C-36
C-37	C-54	S-45	S-46	ERT	

Sampling conducted: September 10,12 &15, 2020
GEL Work Order: 521515
Report Date: September 30, 2020

C-9	S-5

Sampling conducted: September 22, 2020
GEL Work Order: 522156
Report Date: October 7, 2020

C-23	C-22	C-61	C-64

Sampling conducted: September 24, 2020
GEL Work Order: 522862
Report Date: October 7, 2020

C-64	C-4	C-55	C-15	C-17

Sampling conducted: September 24 & 26, 2020
GEL Work Order: 522863
Report Date: October 7, 2020

C-34	C-38	S-38	C-47	C-8

Sampling conducted: September 26 & 30, 2020
GEL Work Order: 522864
Report Date: October 7, 2020

C-7	C-10	C-11

Sampling conducted: November 17, 2020
GEL Work Order: 527820
Report Date: November 25, 2020

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
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F 843.766.1178

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September 23, 2020

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

Re: ENV-CONSENTA-4500778461
Work Order: 520919

Dear Ms. Teague:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 09, 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

Lindsay Fabra
Project Manager

Purchase Order: PO 4500778461
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: 520919 GEL Work Order: 520919

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

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

Analytical Detections Summary

SDG/Report#	520919	**Client**	Westinghouse Electric Co, LLC
Project ID	ENV-CONSENTA-4500778461		

GEL ID	Client Sample ID	Method	CAS	Analyte	Result	Q
520919001	C-48-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.985 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.99 pCi/g	
		SW846 3050B/6020B	15117-96-1	Uranium-235	19.1 ug/kg	
			7440-61-1	Uranium-238	1490 ug/kg	
520919002	C-48-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	2.00 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	2.62 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	2.16 mg/kg	
520919003	C-49-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.966 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.31 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	2.2 mg/kg	
520919004	C-49-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.17 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.71 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	13.9 mg/kg	
520919005	C-49-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.751 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	0.946 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	2.97 mg/kg	
520919006	C-68-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	3.43 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	5.43 pCi/g	
			15117-96-1/1 3982-70-2	Uranium-235/236	0.307 pCi/g	
		SW846 3050B/6020B	15117-96-1	Uranium-235	58.9 ug/kg	
			7440-61-1	Uranium-238	3750 ug/kg	
		SW846 9056A	16984-48-8	Fluoride	5.94 mg/kg	
520919007	C-68-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.59 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	3.74 pCi/g	
			15117-96-1/1 3982-70-2	Uranium-235/236	0.302 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	4.46 mg/kg	
520919008	C-69-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.49 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	2.5 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	4.45 mg/kg	
520919009	C-69-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	4.65 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	17.3 pCi/g	
			15117-96-1/1 3982-70-2	Uranium-235/236	0.996 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	7.07 mg/kg	

Analytical Detections Summary

SDG/Report#	520919	**Client**	Westinghouse Electric Co, LLC
Project ID	ENV-CONSENTA-4500778461		

GEL ID	Client Sample ID	Method	CAS	Analyte	Result	Q
520919010	C-70-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	2.92 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	9.06 pCi/g	
			15117-96-1/1 3982-70-2	Uranium-235/236	0.437 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	6.93 mg/kg	
520919011	C-70-6	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.47 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	4.43 pCi/g	
			15117-96-1/1 3982-70-2	Uranium-235/236	0.38 pCi/g	
		SW846 3050B/6020B	15117-96-1	Uranium-235	64.6 ug/kg	
			7440-61-1	Uranium-238	3920 ug/kg	
		SW846 9056A	16984-48-8	Fluoride	6.61 mg/kg	
520919012	C-71-7	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.69 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	3.35 pCi/g	
			15117-96-1/1 3982-70-2	Uranium-235/236	0.308 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	5.95 mg/kg	
520919013	C-71-8	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.17 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	2.29 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	4.4 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: September 23, 2020

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

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

Client Sample ID: C-48-1
Sample ID: 520919001
Matrix: Soil
Collect Date: 08-SEP-20 10:50
Receive Date: 09-SEP-20
Collector: Client
Moisture: 10.6%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.866	0.389	1.14	mg/kg	10.2	1	CH5	09/10/20	0208	2038716	1
Metals Analysis-ICP-MS												
SW846 3050B/6020B Isotopic Uranium-234/235/238 "Dry Weight Corrected"												
Uranium-235		19.1	2.15	15.0	ug/kg	96.0	2	SKJ	09/23/20	1152	2038781	2
Uranium-238		1490	14.2	42.9	ug/kg	96.0	2					
Uranium-234	U	ND	2.15	10.7	ug/kg	96.0	2	SKJ	09/23/20	1324	2038781	3

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	SM1	09/11/20	0930	2038780
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/09/20	1953	2038715

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

Certificate of Analysis

Report Date: September 23, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-48-2	Project:	WNUC00901
Sample ID:	520919002	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	08-SEP-20 10:53		
Receive Date:	09-SEP-20		
Collector:	Client		
Moisture:	8.99%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		2.16	0.382	1.12	mg/kg	10.2	1	CH5	09/10/20	0332	2038716	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/09/20	1953	2038715

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

Certificate of Analysis

Report Date: September 23, 2020

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

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

Client Sample ID: C-49-3
Sample ID: 520919003
Matrix: Soil
Collect Date: 08-SEP-20 10:59
Receive Date: 09-SEP-20
Collector: Client
Moisture: 6.72%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		2.20	0.366	1.08	mg/kg	10.1	1	CH5	09/10/20	0400	2038716	1
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000314	0.000944	mg/kg	0.880	1	JP1	09/18/20	1941	2041711	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/08/20	1059	2041705
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/09/20	1953	2038715

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	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0426 mg/kg	0.0500	90	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0453 mg/kg	0.0500	96	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0476 mg/kg	0.0500	101	(81%-120%)

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

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

Certificate of Analysis

Report Date: September 23, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-49-4	Project:	WNUC00901
Sample ID:	520919004	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	08-SEP-20 11:06		
Receive Date:	09-SEP-20		
Collector:	Client		
Moisture:	9.37%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		13.9	0.380	1.12	mg/kg	10.1	1	CH5	09/10/20	0428	2038716	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/09/20	1953	2038715

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

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

Certificate of Analysis

Report Date: September 23, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-49-5	Project:	WNUC00901
Sample ID:	520919005	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	08-SEP-20 11:11		
Receive Date:	09-SEP-20		
Collector:	Client		
Moisture:	9.22%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		2.97	0.375	1.10	mg/kg	10.0	1	CH5	09/10/20	0456	2038716	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/09/20	1953	2038715

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: September 23, 2020

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

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

Client Sample ID: C-68-1
Sample ID: 520919006
Matrix: Soil
Collect Date: 08-SEP-20 09:27
Receive Date: 09-SEP-20
Collector: Client
Moisture: 9.08%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		5.94	0.368	1.08	mg/kg	9.83	1	CH5	09/10/20	0524	2038716	1
Metals Analysis-ICP-MS												
SW846 3050B/6020B Isotopic Uranium-234/235/238 "Dry Weight Corrected"												
Uranium-235		58.9	2.07	14.5	ug/kg	94.2	2	SKJ	09/23/20	1204	2038781	2
Uranium-238		3750	13.7	41.4	ug/kg	94.2	2					
Uranium-234	U	ND	2.07	10.4	ug/kg	94.2	2	SKJ	09/23/20	1331	2038781	3

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	SM1	09/11/20	0930	2038780
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/09/20	1953	2038715

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
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: September 23, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-68-2	Project:	WNUC00901
Sample ID:	520919007	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	08-SEP-20 09:34		
Receive Date:	09-SEP-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		4.46	0.376	1.11	mg/kg	9.93	1	CH5	09/10/20	0648	2038716	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/09/20	1953	2038715

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: September 23, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-69-3	Project:	WNUC00901
Sample ID:	520919008	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	08-SEP-20 09:38		
Receive Date:	09-SEP-20		
Collector:	Client		
Moisture:	9.57%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		4.45	0.356	1.05	mg/kg	9.46	1	LXA2	09/11/20	1340	2038905	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/11/20	1008	2038904

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: September 23, 2020

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

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

Client Sample ID: C-69-4
Sample ID: 520919009
Matrix: Soil
Collect Date: 08-SEP-20 09:42
Receive Date: 09-SEP-20
Collector: Client
Moisture: 9.81%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		7.07	0.357	1.05	mg/kg	9.48	1	LXA2	09/11/20	1504	2038905	1
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000269	0.000809	mg/kg	0.730	1	JP1	09/18/20	2007	2041711	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/08/20	0942	2041705
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/11/20	1008	2038904

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	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0367 mg/kg	0.0500	91	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0402 mg/kg	0.0500	99	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0419 mg/kg	0.0500	104	(81%-120%)

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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Report Date: September 23, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-70-5	Project:	WNUC00901
Sample ID:	520919010	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	08-SEP-20 09:50		
Receive Date:	09-SEP-20		
Collector:	Client		
Moisture:	7.52%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		6.93	0.364	1.07	mg/kg	9.90	1	LXA2	09/11/20	1532	2038905	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/11/20	1008	2038904

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: September 23, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-70-6	Project:	WNUC00901
Sample ID:	520919011	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	08-SEP-20 10:07		
Receive Date:	09-SEP-20		
Collector:	Client		
Moisture:	8.32%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		6.61	0.347	1.02	mg/kg	9.37	1	LXA2	09/11/20	1600	2038905	1
Metals Analysis-ICP-MS												
SW846 3050B/6020B Isotopic Uranium-234/235/238 "Dry Weight Corrected"												
Uranium-235		64.6	2.13	14.9	ug/kg	97.5	2	SKJ	09/23/20	1206	2038781	2
Uranium-238		3920	14.0	42.5	ug/kg	97.5	2					
Uranium-234	U	ND	2.13	10.6	ug/kg	97.5	2	SKJ	09/23/20	1333	2038781	3

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	SM1	09/11/20	0930	2038780
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/11/20	1008	2038904

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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Report Date: September 23, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-71-7	Project:	WNUC00901
Sample ID:	520919012	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	08-SEP-20 10:14		
Receive Date:	09-SEP-20		
Collector:	Client		
Moisture:	8.95%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		5.95	0.370	1.09	mg/kg	9.90	1	LXA2	09/11/20	1628	2038905	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/11/20	1008	2038904

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: September 23, 2020

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

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

Client Sample ID: C-71-8
Sample ID: 520919013
Matrix: Soil
Collect Date: 08-SEP-20 10:24
Receive Date: 09-SEP-20
Collector: Client
Moisture: 8.68%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		4.40	0.352	1.04	mg/kg	9.46	1	LXA2	09/11/20	1656	2038905	1
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000315	0.000947	mg/kg	0.865	1	JP1	09/18/20	2033	2041711	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/08/20	1024	2041705
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/11/20	1008	2038904

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	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0445 mg/kg	0.0500	94	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0474 mg/kg	0.0500	100	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0485 mg/kg	0.0500	102	(81%-120%)

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: September 23, 2020

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

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

Client Sample ID: C-48-1
Sample ID: 520919001
Matrix: Soil
Collect Date: 08-SEP-20 10:50
Receive Date: 09-SEP-20
Collector: Client
Moisture: 10.6%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.99	+/-0.614	0.457	0.500	pCi/g			MXS2	09/15/20	0834	2038988	1
Uranium-235/236	U	0.148	+/-0.214	0.258	0.500	pCi/g							
Uranium-238		0.985	+/-0.450	0.423	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.0128	+/-0.454	0.790	1.00	pCi/g			JJ3	09/20/20	0902	2040214	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	09/10/20	0609	2038711

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/Solid "Dry Weight Corrected"			60.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92.4	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 23, 2020

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

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

Client Sample ID: C-48-2
Sample ID: 520919002
Matrix: Soil
Collect Date: 08-SEP-20 10:53
Receive Date: 09-SEP-20
Collector: Client
Moisture: 8.99%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		2.62	+/-0.655	0.311	0.500	pCi/g			MXS2	09/15/20	0834	2038988	1
Uranium-235/236	U	0.0403	+/-0.180	0.353	0.500	pCi/g							
Uranium-238		2.00	+/-0.572	0.268	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.238	+/-0.470	0.837	1.00	pCi/g			JJ3	09/20/20	1015	2040214	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	09/10/20	0609	2038711

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/Solid "Dry Weight Corrected"			83	(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
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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Report Date: September 23, 2020

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

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

Client Sample ID: C-49-3
Sample ID: 520919003
Matrix: Soil
Collect Date: 08-SEP-20 10:59
Receive Date: 09-SEP-20
Collector: Client
Moisture: 6.72%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.31	+/-0.489	0.370	0.500	pCi/g			MXS2	09/15/20	0834	2038988	1
Uranium-235/236	U	0.261	+/-0.274	0.341	0.500	pCi/g							
Uranium-238		0.966	+/-0.423	0.338	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0934	+/-0.426	0.749	1.00	pCi/g			JJ3	09/20/20	1127	2040214	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	09/10/20	0609	2038711

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/Solid "Dry Weight Corrected"			77	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94.6	(15%-125%)

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

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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Report Date: September 23, 2020

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

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

Client Sample ID: C-49-4
Sample ID: 520919004
Matrix: Soil
Collect Date: 08-SEP-20 11:06
Receive Date: 09-SEP-20
Collector: Client
Moisture: 9.37%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.71	+/-0.498	0.352	0.500	pCi/g			MXS2	09/15/20	0834	2038988	1
Uranium-235/236	U	0.00167	+/-0.124	0.275	0.500	pCi/g							
Uranium-238		1.17	+/-0.404	0.236	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.0356	+/-0.453	0.787	1.00	pCi/g			JJ3	09/20/20	1240	2040214	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	09/10/20	0609	2038711

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/Solid "Dry Weight Corrected"			92.6	(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
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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Report Date: September 23, 2020

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

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

Client Sample ID: C-49-5
Sample ID: 520919005
Matrix: Soil
Collect Date: 08-SEP-20 11:11
Receive Date: 09-SEP-20
Collector: Client
Moisture: 9.22%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		0.946	+/-0.412	0.359	0.500	pCi/g			MXS2	09/15/20	0834	2038988	1
Uranium-235/236	U	0.0370	+/-0.139	0.233	0.500	pCi/g							
Uranium-238		0.751	+/-0.366	0.318	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.00368	+/-0.471	0.821	1.00	pCi/g			JJ3	09/20/20	1352	2040214	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	09/10/20	0609	2038711

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/Solid "Dry Weight Corrected"			66.6	(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
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: September 23, 2020

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

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

Client Sample ID: C-68-1
Sample ID: 520919006
Matrix: Soil
Collect Date: 08-SEP-20 09:27
Receive Date: 09-SEP-20
Collector: Client
Moisture: 9.08%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		5.43	+/-0.903	0.318	0.500	pCi/g			MXS2	09/15/20	0834	2038988	1
Uranium-235/236		0.307	+/-0.264	0.261	0.500	pCi/g							
Uranium-238		3.43	+/-0.721	0.307	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.212	+/-0.249	0.419	1.00	pCi/g			JJ3	09/21/20	2020	2040214	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	09/10/20	0609	2038711

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/Solid "Dry Weight Corrected"			88.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			89.4	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 23, 2020

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

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

Client Sample ID: C-68-2
Sample ID: 520919007
Matrix: Soil
Collect Date: 08-SEP-20 09:34
Receive Date: 09-SEP-20
Collector: Client
Moisture: 10.3%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		3.74	+/-0.747	0.313	0.500	pCi/g			MXS2	09/15/20	0834	2038988	1
Uranium-235/236		0.302	+/-0.260	0.257	0.500	pCi/g							
Uranium-238		1.59	+/-0.488	0.208	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.121	+/-0.521	0.917	1.00	pCi/g			JJ3	09/20/20	1618	2040214	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	09/10/20	0609	2038711

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/Solid "Dry Weight Corrected"			90.1	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			86.8	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 23, 2020

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

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

Client Sample ID: C-69-3
Sample ID: 520919008
Matrix: Soil
Collect Date: 08-SEP-20 09:38
Receive Date: 09-SEP-20
Collector: Client
Moisture: 9.57%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		2.50	+/-0.609	0.335	0.500	pCi/g			MXS2	09/15/20	0834	2038988	1
Uranium-235/236	U	0.0681	+/-0.156	0.248	0.500	pCi/g							
Uranium-238		1.49	+/-0.467	0.239	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.216	+/-0.490	0.870	1.00	pCi/g			JJ3	09/20/20	1731	2040214	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	09/10/20	0609	2038711

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/Solid "Dry Weight Corrected"			79.9	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			90.6	(15%-125%)

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

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: September 23, 2020

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

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

Client Sample ID: C-69-4
Sample ID: 520919009
Matrix: Soil
Collect Date: 08-SEP-20 09:42
Receive Date: 09-SEP-20
Collector: Client
Moisture: 9.81%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		17.3	+/-1.65	0.378	0.500	pCi/g			MXS2	09/15/20	0834	2038988	1
Uranium-235/236		0.996	+/-0.448	0.149	0.500	pCi/g							
Uranium-238		4.65	+/-0.854	0.223	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.182	+/-0.529	0.936	1.00	pCi/g			JJ3	09/20/20	1843	2040214	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	09/10/20	0609	2038711

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/Solid "Dry Weight Corrected"			71	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92	(15%-125%)

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

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: September 23, 2020

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

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

Client Sample ID: C-70-5
Sample ID: 520919010
Matrix: Soil
Collect Date: 08-SEP-20 09:50
Receive Date: 09-SEP-20
Collector: Client
Moisture: 7.52%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		9.06	+/-1.07	0.335	0.500	pCi/g			MXS2	09/15/20	0834	2038988	1
Uranium-235/236		0.437	+/-0.283	0.261	0.500	pCi/g							
Uranium-238		2.92	+/-0.607	0.211	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0361	+/-0.282	0.487	1.00	pCi/g			JJ3	09/21/20	2222	2040214	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	09/10/20	0609	2038711

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/Solid "Dry Weight Corrected"			89	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			87.1	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 23, 2020

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

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

Client Sample ID: C-70-6
Sample ID: 520919011
Matrix: Soil
Collect Date: 08-SEP-20 10:07
Receive Date: 09-SEP-20
Collector: Client
Moisture: 8.32%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		4.43	+/-0.799	0.342	0.500	pCi/g			MXS2	09/15/20	0834	2038988	1
Uranium-235/236		0.380	+/-0.279	0.247	0.500	pCi/g							
Uranium-238		1.47	+/-0.466	0.253	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.326	+/-0.521	0.932	1.00	pCi/g			JJ3	09/20/20	2109	2040214	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	09/10/20	0609	2038711

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/Solid "Dry Weight Corrected"			85.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92.2	(15%-125%)

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

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: September 23, 2020

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

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

Client Sample ID: C-71-7
Sample ID: 520919012
Matrix: Soil
Collect Date: 08-SEP-20 10:14
Receive Date: 09-SEP-20
Collector: Client
Moisture: 8.95%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		3.35	+/-0.687	0.378	0.500	pCi/g			MXS2	09/15/20	0834	2038988	1
Uranium-235/236		0.308	+/-0.252	0.258	0.500	pCi/g							
Uranium-238		1.69	+/-0.485	0.253	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0694	+/-0.510	0.894	1.00	pCi/g			JJ3	09/20/20	2222	2040214	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	09/10/20	0609	2038711

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/Solid "Dry Weight Corrected"			74.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			91.2	(15%-125%)

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

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: September 23, 2020

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

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

Client Sample ID: C-71-8
Sample ID: 520919013
Matrix: Soil
Collect Date: 08-SEP-20 10:24
Receive Date: 09-SEP-20
Collector: Client
Moisture: 8.68%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		2.29	+/-0.509	0.243	0.500	pCi/g			MXS2	09/15/20	0834	2038988	1
Uranium-235/236	U	0.0347	+/-0.0976	0.104	0.500	pCi/g							
Uranium-238		1.17	+/-0.367	0.208	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0300	+/-0.429	0.750	1.00	pCi/g			JJ3	09/20/20	2334	2040214	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	09/10/20	0609	2038711

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/Solid "Dry Weight Corrected"			94.4	(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
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

QC Summary

Report Date: September 23, 2020

Westinghouse Electric Company, LLC
PO Drawer R
Columbia, South Carolina

Contact: **Ms. Cynthia Teague**

Workorder: **520919**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2038716										
QC1204639286 520919001 DUP										
Fluoride	J	0.866	J	0.928	mg/kg	6.94 ^		(+/-1.16)	CH5	09/10/20 02:36
QC1204639285 LCS										
Fluoride	23.8			23.2	mg/kg		97.5	(90%-110%)		09/10/20 01:40
QC1204639284 MB										
Fluoride			U	ND	mg/kg					09/10/20 01:12
QC1204639287 520919001 MS										
Fluoride	26.9 J	0.866		12.3	mg/kg		42.4*	(75%-125%)		09/10/20 03:04
Batch 2038905										
QC1204639782 520919008 DUP										
Fluoride		4.45		4.84	mg/kg	8.49 ^		(+/-1.09)	LXA2	09/11/20 14:08
QC1204639781 LCS										
Fluoride	24.5			25.4	mg/kg		104	(90%-110%)		09/11/20 13:11
QC1204639780 MB										
Fluoride			U	ND	mg/kg					09/11/20 12:43
QC1204639784 520919008 MS										
Fluoride	26.7	4.45		24.1	mg/kg		73.5*	(75%-125%)		09/11/20 14:36
Metals Analysis - ICPMS										
Batch 2038781										
QC1204639414 LCS										
Uranium-235	32.7			33.4	ug/kg		102	(80%-120%)	SKJ	09/23/20 11:51
Uranium-238	4500			4680	ug/kg		104	(80%-120%)		

QC Summary

Workorder: **520919**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2038781												
QC1204639418 LCS												
Uranium-234	51.9				55.7	ug/kg		107	(80%-120%)	SKJ	09/23/20	13:23
QC1204639413 MB												
Uranium-234				U	ND	ug/kg					09/23/20	13:21
Uranium-235				U	ND	ug/kg					09/23/20	11:49
Uranium-238				U	ND	ug/kg						
QC1204639415 520919001 MS												
Uranium-235	39.1		19.1		64.3	ug/kg		116	(75%-125%)		09/23/20	11:54
Uranium-238	5390		1490		7470	ug/kg		111	(75%-125%)			
QC1204639419 520919001 MS												
Uranium-234	56.3	U	ND		66.6	ug/kg		118	(75%-125%)		09/23/20	13:26
QC1204639416 520919001 MSD												
Uranium-235	39.4		19.1		58.0	ug/kg	10.2	98.9	(0%-20%)		09/23/20	11:56
Uranium-238	5430		1490		7500	ug/kg	0.507	111	(0%-20%)			
QC1204639420 520919001 MSD												
Uranium-234	56.1	U	ND		66.3	ug/kg	0.366	118	(0%-20%)		09/23/20	13:28
QC1204639417 520919001 SDILT												
Uranium-234		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/23/20	13:30
Uranium-235			0.0889	J	0.0169	ug/L	4.95		(0%-20%)		09/23/20	11:58
Uranium-238			6.96		1.30	ug/L	6.41		(0%-20%)			

QC Summary

Workorder: **520919**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2041711										
QC1204645767 LCS										
Tetrachloroethylene	0.0500			0.0516	mg/kg		103	(68%-129%)	JP1	09/18/20 17:32
**1,2-Dichloroethane-d4	50.0			48.9	ug/L		98	(81%-124%)		
**Bromofluorobenzene	50.0			49.3	ug/L		99	(70%-130%)		
**Toluene-d8	50.0			51.0	ug/L		102	(81%-120%)		
QC1204645769 LCSD										
Tetrachloroethylene	0.0500			0.0568	mg/kg	10	114	(0%-20%)		09/18/20 17:58
**1,2-Dichloroethane-d4	50.0			48.9	ug/L		98	(81%-124%)		
**Bromofluorobenzene	50.0			49.1	ug/L		98	(70%-130%)		
**Toluene-d8	50.0			51.1	ug/L		102	(81%-120%)		
QC1204645766 MB										
Tetrachloroethylene			U	ND	mg/kg					09/18/20 19:15
**1,2-Dichloroethane-d4	50.0			46.1	ug/L		92	(81%-124%)		
**Bromofluorobenzene	50.0			47.6	ug/L		95	(70%-130%)		
**Toluene-d8	50.0			50.7	ug/L		101	(81%-120%)		

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported

QC Summary

Workorder: **520919**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

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
h	Preparation or preservation holding time was exceeded

QC Summary

Workorder: **520919**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

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.

QC Summary

Report Date: September 23, 2020

Westinghouse Electric Company, LLC
PO Drawer R
Columbia, South Carolina

Contact: **Ms. Cynthia Teague**

Workorder: **520919**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2038716										
QC1204639286 520919001 DUP										
Fluoride	J	0.866	J	0.928	mg/kg	6.94 ^		(+/-1.16)	CH5	09/10/20 02:36
QC1204639285 LCS										
Fluoride	23.8			23.2	mg/kg		97.5	(90%-110%)		09/10/20 01:40
QC1204639284 MB										
Fluoride			U	0.000	mg/kg					09/10/20 01:12
QC1204639287 520919001 MS										
Fluoride	26.9 J	0.866		12.3	mg/kg		42.4*	(75%-125%)		09/10/20 03:04
Batch 2038905										
QC1204639782 520919008 DUP										
Fluoride		4.45		4.84	mg/kg	8.49 ^		(+/-1.09)	LXA2	09/11/20 14:08
QC1204639781 LCS										
Fluoride	24.5			25.4	mg/kg		104	(90%-110%)		09/11/20 13:11
QC1204639780 MB										
Fluoride			U	0.000	mg/kg					09/11/20 12:43
QC1204639784 520919008 MS										
Fluoride	26.7	4.45		24.1	mg/kg		73.5*	(75%-125%)		09/11/20 14:36
Rad Alpha Spec										
Batch 2038988										
QC1204639938 520919001 DUP										
Uranium-233/234		1.99		2.02	pCi/g	1.7		(0%-20%)	MXS2	09/15/20 08:34
Uranium-235/236	U	0.148	U	0.130	pCi/g	N/A		N/A		

QC Summary

Workorder: **520919**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Alpha Spec										
Batch 2038988										
Uranium-238		0.985		1.53	pCi/g	43.3		(0% - 100%)	MXS2	09/15/20 08:34
QC1204639939 LCS										
Uranium-233/234				10.9	pCi/g					09/15/20 08:34
Uranium-235/236				0.655	pCi/g					
Uranium-238	12.6			13.7	pCi/g		109	(75%-125%)		
QC1204639937 MB										
Uranium-233/234			U	-0.000289	pCi/g					09/15/20 08:34
Uranium-235/236			U	0.0759	pCi/g					
Uranium-238			U	-0.0884	pCi/g					
Rad Liquid Scintillation										
Batch 2040214										
QC1204642541 520919001 DUP										
Technetium-99	U	0.0128	U	-0.436	pCi/g	N/A		N/A	JJ3	09/21/20 01:59
QC1204642542 LCS										
Technetium-99	29.6			32.0	pCi/g		108	(75%-125%)		09/21/20 03:12
QC1204642540 MB										
Technetium-99			U	-0.0695	pCi/g					09/21/20 00:47

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.

QC Summary

Workorder: **520919**

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 #: 520919

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: 2041711

Preparation Method: SW846 5035
Preparation Procedure: GL-OA-E-039 REV# 13
Preparation Batch: 2041705

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

GEL Sample ID#	Client Sample Identification
520919003	C-49-3
520919009	C-69-4
520919013	C-71-8
1204645766	Method Blank (MB)
1204645767	Laboratory Control Sample (LCS)
1204645769	Laboratory Control Sample Duplicate (LCSD)

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.

Miscellaneous Information

Additional Comments
LCS was processed as soil matrix but analyzed as a water. LCS/LCSD passed SPC soil limits.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3050B/6020B
Analytical Procedure: GL-MA-E-014 REV# 34
Analytical Batch: 2038781

Preparation Method: SW846 3050B
Preparation Procedure: GL-MA-E-009 REV# 29
Preparation Batch: 2038780

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

GEL Sample ID#	Client Sample Identification
520919001	C-48-1
520919006	C-68-1
520919011	C-70-6
1204639413	Method Blank (MB)**ICP-MS**
1204639414	Laboratory Control Sample (LCS)
1204639418	Laboratory Control Sample (LCS)
1204639417	520919001(C-48-1L) Serial Dilution (SD)
1204639415	520919001(C-48-1S) Matrix Spike (MS)
1204639419	520919001(C-48-1S) Matrix Spike (MS)
1204639416	520919001(C-48-1SD) Matrix Spike Duplicate (MSD)
1204639420	520919001(C-48-1SD) Matrix Spike Duplicate (MSD)

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.

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	520919		
	001	006	011
Uranium-234	2X	2X	2X
Uranium-235	2X	2X	2X
Uranium-238	2X	2X	2X

General Chemistry

Product: **Ion Chromatography**
Analytical Method: SW846 9056A

Analytical Procedure: GL-GC-E-086 REV# 28
Analytical Batches: 2038716 and 2038715

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

GEL Sample ID#	Client Sample Identification
520919001	C-48-1
520919002	C-48-2
520919003	C-49-3
520919004	C-49-4
520919005	C-49-5
520919006	C-68-1
520919007	C-68-2
1204639284	Method Blank (MB)
1204639285	Laboratory Control Sample (LCS)
1204639286	520919001(C-48-1) Sample Duplicate (DUP)
1204639287	520919001(C-48-1) 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	1204639287 (C-48-1MS)	42.4* (75%-125%)

Product: **Ion Chromatography**
Analytical Method: SW846 9056A
Analytical Procedure: GL-GC-E-086 REV# 28
Analytical Batches: 2038905 and 2038904

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

GEL Sample ID#	Client Sample Identification
520919008	C-69-3
520919009	C-69-4
520919010	C-70-5
520919011	C-70-6
520919012	C-71-7
520919013	C-71-8
1204639780	Method Blank (MB)

1204639781	Laboratory Control Sample (LCS)
1204639782	520919008(C-69-3) Sample Duplicate (DUP)
1204639784	520919008(C-69-3) 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	1204639784 (C-69-3MS)	73.5* (75%-125%)

Radiochemistry

Product: **Alphaspec U, Soil/Veg/Solid**
Analytical Method: DOE EML HASL-300, U-02-RC Modified
Analytical Procedure: GL-RAD-A-011 REV# 28
Analytical Batch: 2038988

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2038711

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

GEL Sample ID#	Client Sample Identification
520919001	C-48-1
520919002	C-48-2
520919003	C-49-3
520919004	C-49-4
520919005	C-49-5
520919006	C-68-1
520919007	C-68-2
520919008	C-69-3
520919009	C-69-4
520919010	C-70-5
520919011	C-70-6
520919012	C-71-7
520919013	C-71-8
1204639937	Method Blank (MB)

1204639938	520919001(C-48-1) Sample Duplicate (DUP)
1204639939	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: 2038711

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2038711

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

GEL Sample ID#	Client Sample Identification
520919001	C-48-1
520919002	C-48-2
520919003	C-49-3
520919004	C-49-4
520919005	C-49-5
520919006	C-68-1
520919007	C-68-2
520919008	C-69-3
520919009	C-69-4
520919010	C-70-5
520919011	C-70-6
520919012	C-71-7
520919013	C-71-8
1204639283	520919001(C-48-1) 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: 2040214

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

GEL Sample ID#	Client Sample Identification
520919001	C-48-1
520919002	C-48-2
520919003	C-49-3
520919004	C-49-4
520919005	C-49-5
520919006	C-68-1
520919007	C-68-2
520919008	C-69-3
520919009	C-69-4
520919010	C-70-5
520919011	C-70-6
520919012	C-71-7
520919013	C-71-8
1204642540	Method Blank (MB)
1204642541	520919001(C-48-1) Sample Duplicate (DUP)
1204642542	Laboratory Control Sample (LCS)

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

Technical Information

Recounts
Samples 520919006 (C-68-1) and 520919010 (C-70-5) were recounted due to high MDCs. The recounts are reported.

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.

Page: 1 of 2
Project # Sealand Soil Sampling June 2020
GEL Quote #: WNUC009
COC Number (1):
PO # 4500778461, Line 1

520919

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager:*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Westinghouse Phone # 803.647.3171
Project/Site Name: Fax # 803.695.3964
Address: 5801 Bluff Road, Hopkins, SC 29061
Collected By: Randy Crews RCrews Send Results To: logsdocj@westinghouse.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Isotopic Uranium by Alpha Spec	Isotopic Uranium by ICPMS	Tc-99	Fluoride	VOCs	<-- Preservative Type (6)	Comments
C-48-1	9/8/2020	1050	G		SO			1	X	X	X	X			Note: extra sample is required for sample specific QC
C-48-2	9/8/2020	1053	G		SO			1	X		X	X			
C-49-3	9/8/2020	1059	G		SO			2	X		X	X	X		
C-49-4	9/8/2020	1106	G		SO			1	X		X	X			
C-49-5	9/8/2020	1111	G		SO			1	X		X	X			
C-68-1	9/8/2020	0927	G		SO			1	X	X	X	X			
C-68-2	9/8/2020	0934	G		SO			1	X		X	X			
C-69-3	9/8/2020	0938	G		SO			1	X		X	X			
C-69-4	9/8/2020	0942	G		SO			2	X		X	X	X		
C-70-5	9/8/2020	0950	G		SO			1	X		X	X			

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Randy Crews RCrews	9/8/2020	1345	1 L. Wiedel	9/8/2020	1345
2 L. Wiedel (Secure Location)	9/9/2020	1030	2	9/9/20	1048
3	9/9/20	1528	3	9/9/20	1528

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

TAT Requested: Normal: ____ Rush: X Specify: 10 days (2 week)

Fax Results: [ ] Yes [x] 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 [ ] Central [ ] Mountain [ ] Other:

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**=Fecal, **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**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
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 concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 2 of 2
Project # Sealand Soil Sampling June 2020
GEL Quote #: WNUC009
COC Number (1):
PO # 4500778461, Line 1

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager:*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Westinghouse Phone # 803.647.3171
Project/Site Name: Fax # 803.695.3964
Address: 5801 Bluff Road, Hopkins, SC 29061
Collected By: Randy Crews RCrews Send Results To: logsdocj@westinghouse.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Isotopic Uranium by Alpha Spec	Isotopic Uranium by ICPMS	Tc-99	Fluoride	VOCs	<-- Preservative Type (6)	Comments
C-70-6	9/8/2020	1007	G		SO			1	X	X	X	X			Note: extra sample is required for sample specific QC
C-71-7	9/8/2020	1014	G		SO			1	X		X	X			
C-71-8	9/8/2020	1024	G		SO			2	X		X	X	X		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Randy Crews RCrews	9/8/2020	1345	1 L. Wiedel	9/8/2020	1345
2 L. Wiedel (Secure Location)	9/9/2020	1030	2	9/9/20	1044
3	9/9/20	1528	3	9/9/20	1528

TAT Requested: Normal: ____ Rush: X Specify: 10 days (2 week)

Fax Results: [ ] Yes [x] 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

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

Sample Collection Time Zone: [ ] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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**=Fecal, **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**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
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 concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

520919

Client: WNYC	**SDG/AR/COC/Work Order:**
Received By: ZKW	**Date Received:** 9/9/20
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier 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?		✓	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?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	✓		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as:** Rad 1 **Rad 2** **Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	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?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius **TEMP:** 1C
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR3-18 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?		✓		Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?	✓		✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected: 9/9/20
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			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?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials CH Date 9/10/20 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 23 September 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

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September 30, 2020

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

Re: ENV-CONSENTA-4500778461
Work Order: 521515

Dear Ms. Teague:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 16, 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

Lindsay Fabra
Project Manager

Purchase Order: 4500778461 Line 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: 521515 GEL Work Order: 521515

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

B The target analyte was detected in the associated blank.

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

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

Analytical Detections Summary

SDG/Report#	521515	**Client**	Westinghouse Electric Co, LLC
Project ID	ENV-CONSENTA-4500778461		

GEL ID	Client Sample ID	Method	CAS	Analyte	Result	Q
521515001	C-19-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.996 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	0.552 pCi/g	
			15117-96-1/13982-70-2	Uranium-235/236	0.137 pCi/g	
		SW846 3050B/6020B	7440-61-1	Uranium-238	1010 ug/kg	
521515002	C-19-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.871 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	0.964 pCi/g	
521515003	C-19-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.07 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.86 pCi/g	
521515004	C-19-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	2.01 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	5.04 pCi/g	
			15117-96-1/13982-70-2	Uranium-235/236	0.321 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	3.25 mg/kg	
521515005	C-19-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	7.27 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	25.7 pCi/g	
			15117-96-1/13982-70-2	Uranium-235/236	1.43 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.66 mg/kg	
521515006	C-21-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.08 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	2.93 pCi/g	
		SW846 3050B/6020B	15117-96-1	Uranium-235	30.2 ug/kg	
			7440-61-1	Uranium-238	1770 ug/kg	
521515007	C-21-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.878 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.66 pCi/g	
521515008	C-21-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.05 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.9 pCi/g	
			15117-96-1/13982-70-2	Uranium-235/236	0.126 pCi/g	
		SW846 8260D	127-18-4	Tetrachloroethylene	0.00504 mg/kg	
521515009	C-21-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.23 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.5 pCi/g	
521515010	C-21-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.2 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	2.26 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.48 mg/kg	

GEL Laboratories LLC

Analytical Detections Summary

SDG/Report#	521515	**Client**	Westinghouse Electric Co, LLC
Project ID	ENV-CONSENTA-4500778461		

GEL ID	Client Sample ID	Method	CAS	Analyte	Result	Q
521515011	C-21-6	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.06 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	0.843 pCi/g	
		SW846 3050B/6020B	7440-61-1	Uranium-238	1250 ug/kg	
		SW846 8260D	127-18-4	Tetrachloroethylene	0.00128 mg/kg	
521515012	C-24-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.34 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.84 pCi/g	
521515013	C-24-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.871 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.04 pCi/g	
521515014	C-24-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.667 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	0.41 pCi/g	
			15117-96-1/13982-70-2	Uranium-235/236	0.128 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.27 mg/kg	
521515015	C-24-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.04 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.64 pCi/g	
521515016	C-24-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.837 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	0.991 pCi/g	
		SW846 3050B/6020B	7440-61-1	Uranium-238	1610 ug/kg	
521515017	C-62-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.46 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.19 pCi/g	
521515018	C-62-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.973 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.19 pCi/g	
521515019	C-62-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.03 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.01 pCi/g	
521515020	C-62-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.36 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	4.03 pCi/g	
521515021	C-62-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.712 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.44 pCi/g	
521515022	C-13-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.798 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	2.1 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	2.92 mg/kg	
521515023	C-13-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.09 pCi/g	
			13968-55-3/1	Uranium-233/234	1.24 pCi/g	

GEL Laboratories LLC

Analytical Detections Summary

SDG/Report#	521515	**Client**	Westinghouse Electric Co, LLC
Project ID	ENV-CONSENTA-4500778461		

GEL ID	Client Sample ID	Method	CAS	Analyte	Result	Q
521515023	C-13-2	DOE EML HASL-300, U-02-RC Modified	3966-29-5 15117-96-1/1 3982-70-2	Uranium-235/236	0.237 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.74 mg/kg	
521515024	C-13-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1 13968-55-3/1 3966-29-5	Uranium-238 Uranium-233/234	0.907 pCi/g 1.4 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	2.25 mg/kg	
521515025	C-13-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1 13968-55-3/1 3966-29-5	Uranium-238 Uranium-233/234	1.08 pCi/g 1.52 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.43 mg/kg	
521515026	C-13-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1 13968-55-3/1 3966-29-5	Uranium-238 Uranium-233/234	1.08 pCi/g 1.27 pCi/g	
521515027	C-36-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1 13968-55-3/1 3966-29-5	Uranium-238 Uranium-233/234	0.958 pCi/g 1.03 pCi/g	
521515028	C-36-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1 13968-55-3/1 3966-29-5	Uranium-238 Uranium-233/234	0.982 pCi/g 0.942 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.5 mg/kg	
521515029	C-36-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1 13968-55-3/1 3966-29-5	Uranium-238 Uranium-233/234	0.992 pCi/g 1.66 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.8 mg/kg	
521515030	C-36-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1 13968-55-3/1 3966-29-5	Uranium-238 Uranium-233/234	0.694 pCi/g 1.19 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	2.05 mg/kg	
521515031	C-37-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1 13968-55-3/1 3966-29-5	Uranium-238 Uranium-233/234	1.12 pCi/g 0.862 pCi/g	
521515032	C-37-6	DOE EML HASL-300, U-02-RC Modified	7440-61-1 13968-55-3/1 3966-29-5	Uranium-238 Uranium-233/234	0.782 pCi/g 1.16 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	3.14 mg/kg	
521515033	C-37-7	DOE EML HASL-300, U-02-RC Modified	7440-61-1 13968-55-3/1 3966-29-5	Uranium-238 Uranium-233/234	0.994 pCi/g 0.79 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	5.86 mg/kg	
521515034	C-37-8	DOE EML HASL-300, U-02-RC Modified	7440-61-1 13968-55-3/1 3966-29-5	Uranium-238 Uranium-233/234	0.718 pCi/g 1.05 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	3.57 mg/kg	

GEL Laboratories LLC

Analytical Detections Summary

SDG/Report#	521515	**Client**	Westinghouse Electric Co, LLC
Project ID	ENV-CONSENTA-4500778461		

GEL ID	Client Sample ID	Method	CAS	Analyte	Result	Q
521515035	C-54-9	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.09 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.21 pCi/g	
			15117-96-1/13982-70-2	Uranium-235/236	0.141 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.56 mg/kg	
521515036	C-54-10	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.02 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.41 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	2.03 mg/kg	
521515037	C-54-11	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.757 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	0.996 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.56 mg/kg	
521515038	C-54-12	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.24 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.56 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.77 mg/kg	
521515039	S-45-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	4.16 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	14.5 pCi/g	
			15117-96-1/13982-70-2	Uranium-235/236	0.791 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	8.76 mg/kg	
521515040	S-45-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.933 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	0.777 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.43 mg/kg	
521515041	S-45-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.723 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.69 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	4.61 mg/kg	
521515042	S-46-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	4.49 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	16.2 pCi/g	
			15117-96-1/13982-70-2	Uranium-235/236	0.932 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	16.8 mg/kg	
521515043	S-46-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	3.75 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	9.56 pCi/g	
			15117-96-1/13982-70-2	Uranium-235/236	0.417 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	24.8 mg/kg	
521515044	S-46-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	3.2 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	8.89 pCi/g	
			15117-96-1/13982-70-2	Uranium-235/236	0.491 pCi/g	

Analytical Detections Summary

SDG/Report#	521515	**Client**	Westinghouse Electric Co, LLC
Project ID	ENV-CONSENTA-4500778461		

GEL ID	Client Sample ID	Method	CAS	Analyte	Result		Q
521515044	S-46-3	SW846 9056A	16984-48-8	Fluoride	10.1	mg/kg	
521515045	ERT-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.552	pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.11	pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.44	mg/kg	
521515046	ERT-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.96	pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	6.74	pCi/g	
			15117-96-1/13982-70-2	Uranium-235/236	0.456	pCi/g	
		SW846 9056A	16984-48-8	Fluoride	7.11	mg/kg	
521515047	ERT-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.19	pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	3.17	pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.42	mg/kg	

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

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Certificate of Analysis

Report Date: September 30, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-19-1	Project:	WNUC00901
Sample ID:	521515001	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	10-SEP-20 09:43		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	6.51%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.724	0.720	2.12	mg/kg	9.90	2	LXA2	09/18/20	2249	2041392	1
Metals Analysis-ICP-MS												
SW846 3050B/6020B Isotopic Uranium-234/235/238 "Dry Weight Corrected"												
Uranium-235	J	9.27	1.98	13.8	ug/kg	92.4	2	SKJ	09/29/20	0802	2041361	2
Uranium-238		1010	13.0	39.5	ug/kg	92.4	2					
Uranium-234	U	ND	1.98	9.89	ug/kg	92.4	2	SKJ	09/29/20	1509	2041361	3

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	SM1	09/18/20	0955	2041360
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	1024	2041391

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: September 30, 2020

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

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

Client Sample ID: C-19-2
Sample ID: 521515002
Matrix: Soil
Collect Date: 10-SEP-20 09:46
Receive Date: 16-SEP-20
Collector: Client
Moisture: 4.68%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.352	1.04	mg/kg	9.88	1	LXA2	09/17/20	1752	2041392	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	1024	2041391

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: September 30, 2020

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

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

Client Sample ID: C-19-3
Sample ID: 521515003
Matrix: Soil
Collect Date: 10-SEP-20 09:51
Receive Date: 16-SEP-20
Collector: Client
Moisture: 8.68%

Project: WNUC00901
Client ID: WNUC009

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	9.90	1	LXA2	09/17/20	1819	2041392	1
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000358	0.00108	mg/kg	0.982	1	JP1	09/18/20	2058	2041711	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/10/20	0951	2041705
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	1024	2041391

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	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0484 mg/kg	0.0500	90	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0516 mg/kg	0.0500	96	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0545 mg/kg	0.0500	101	(81%-120%)

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: September 30, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-19-4	Project:	WNUC00901
Sample ID:	521515004	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	10-SEP-20 09:58		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	9.32%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		3.25	0.730	2.15	mg/kg	9.73	2	LXA2	09/19/20	0010	2041392	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	1024	2041391

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 Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-19-5	Project:	WNUC00901
Sample ID:	521515005	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	10-SEP-20 10:02		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	9.9%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.66	0.375	1.10	mg/kg	9.93	1	LXA2	09/17/20	1913	2041392	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	1024	2041391

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: September 30, 2020

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

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

Client Sample ID: C-21-1
Sample ID: 521515006
Matrix: Soil
Collect Date: 10-SEP-20 10:13
Receive Date: 16-SEP-20
Collector: Client
Moisture: 10%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.617	0.364	1.07	mg/kg	9.64	1	LXA2	09/17/20	1940	2041392	1
Metals Analysis-ICP-MS												
SW846 3050B/6020B Isotopic Uranium-234/235/238 "Dry Weight Corrected"												
Uranium-235		30.2	2.05	14.4	ug/kg	92.4	2	SKJ	09/29/20	0812	2041361	2
Uranium-238		1770	13.6	41.1	ug/kg	92.4	2					
Uranium-234	U	ND	2.05	10.3	ug/kg	92.4	2	SKJ	09/29/20	1518	2041361	3

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	SM1	09/18/20	0955	2041360
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	1024	2041391

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
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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Report Date: September 30, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
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Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-21-2	Project:	WNUC00901
Sample ID:	521515007	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	10-SEP-20 10:16		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	9.05%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.575	0.364	1.07	mg/kg	9.73	1	LXA2	09/17/20	2101	2041392	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	1024	2041391

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: September 30, 2020

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

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

Client Sample ID: C-21-3
Sample ID: 521515008
Matrix: Soil
Collect Date: 10-SEP-20 10:18
Receive Date: 16-SEP-20
Collector: Client
Moisture: 10.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.545	0.368	1.08	mg/kg	9.73	1	LXA2	09/17/20	2128	2041392	1
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene		0.00504	0.000324	0.000972	mg/kg	0.874	1	JP1	09/18/20	2124	2041711	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/10/20	1018	2041705
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	1024	2041391

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	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0460 mg/kg	0.0500	95	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0465 mg/kg	0.0500	96	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0488 mg/kg	0.0500	100	(81%-120%)

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: September 30, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-21-4	Project:	WNUC00901
Sample ID:	521515009	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	10-SEP-20 10:28		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	8.29%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.790	0.358	1.05	mg/kg	9.66	1	LXA2	09/17/20	2155	2041392	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	1024	2041391

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: September 30, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-21-5	Project:	WNUC00901
Sample ID:	521515010	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	10-SEP-20 10:31		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	10.1%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.48	0.366	1.08	mg/kg	9.69	1	LXA2	09/17/20	2222	2041392	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	1024	2041391

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: September 30, 2020

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

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

Client Sample ID: C-21-6
Sample ID: 521515011
Matrix: Soil
Collect Date: 10-SEP-20 10:35
Receive Date: 16-SEP-20
Collector: Client
Moisture: 12.2%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.376	1.11	mg/kg	9.71	1	LXA2	09/17/20	2249	2041392	1
Metals Analysis-ICP-MS												
SW846 3050B/6020B Isotopic Uranium-234/235/238 "Dry Weight Corrected"												
Uranium-235	J	12.2	2.14	15.0	ug/kg	94.0	2	SKJ	09/29/20	0813	2041361	2
Uranium-238		1250	14.1	42.8	ug/kg	94.0	2					
Uranium-234	U	ND	2.14	10.7	ug/kg	94.0	2	SKJ	09/29/20	1519	2041361	3
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene		0.00128	0.000285	0.000855	mg/kg	0.751	1	JP1	09/18/20	2150	2041711	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	SM1	09/18/20	0955	2041360
SW846 5035	5035 Prep	JP1	09/10/20	1035	2041705
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	1024	2041391

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	
2	SW846 3050B/6020B	
3	SW846 3050B/6020B	
4	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0400 mg/kg	0.0500	94	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0403 mg/kg	0.0500	94	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0431 mg/kg	0.0500	101	(81%-120%)

Notes:

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Certificate of Analysis

Report Date: September 30, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-21-6	Project:	WNUC00901
Sample ID:	521515011	Client ID:	WNUC009

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

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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Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-24-1	Project:	WNUC00901
Sample ID:	521515012	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	10-SEP-20 11:02		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	10.9%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.376	1.11	mg/kg	9.85	1	LXA2	09/17/20	2316	2041392	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	1024	2041391

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: September 30, 2020

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

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

Client Sample ID: C-24-2
Sample ID: 521515013
Matrix: Soil
Collect Date: 10-SEP-20 11:05
Receive Date: 16-SEP-20
Collector: Client
Moisture: 8.65%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.370	1.09	mg/kg	9.95	1	LXA2	09/17/20	2343	2041392	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	1024	2041391

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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: September 30, 2020

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

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

Client Sample ID: C-24-3
Sample ID: 521515014
Matrix: Soil
Collect Date: 10-SEP-20 11:08
Receive Date: 16-SEP-20
Collector: Client
Moisture: 7.3%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.27	0.357	1.05	mg/kg	9.73	1	LXA2	09/18/20	0010	2041392	1
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000295	0.000886	mg/kg	0.821	1	JP1	09/18/20	2216	2041711	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/10/20	1108	2041705
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	1024	2041391

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	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0407 mg/kg	0.0500	92	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0425 mg/kg	0.0500	96	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0449 mg/kg	0.0500	101	(81%-120%)

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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Report Date: September 30, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-24-4	Project:	WNUC00901
Sample ID:	521515015	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	10-SEP-20 11:13		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	10.7%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.536	0.380	1.12	mg/kg	9.98	1	LXA2	09/18/20	0037	2041392	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	1024	2041391

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: September 30, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-24-5	Project:	WNUC00901
Sample ID:	521515016	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	10-SEP-20 11:17		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	10.6%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.363	1.07	mg/kg	9.55	1	LXA2	09/18/20	0104	2041392	1
Metals Analysis-ICP-MS												
SW846 3050B/6020B Isotopic Uranium-234/235/238 "Dry Weight Corrected"												
Uranium-235	J	13.8	2.21	15.4	ug/kg	98.6	2	SKJ	09/29/20	0815	2041361	2
Uranium-238		1610	14.6	44.1	ug/kg	98.6	2					
Uranium-234	U	ND	2.21	11.0	ug/kg	98.6	2	SKJ	09/29/20	1521	2041361	3

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	SM1	09/18/20	0955	2041360
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	1024	2041391

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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Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
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Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-62-1	Project:	WNUC00901
Sample ID:	521515017	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	10-SEP-20 11:24		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	11%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.372	1.09	mg/kg	9.73	1	LXA2	09/18/20	0225	2041392	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	1024	2041391

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 Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-62-2	Project:	WNUC00901
Sample ID:	521515018	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	10-SEP-20 11:27		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	10.6%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.377	1.11	mg/kg	9.93	1	LXA2	09/18/20	0252	2041392	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	1024	2041391

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: September 30, 2020

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

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

Client Sample ID: C-62-3
Sample ID: 521515019
Matrix: Soil
Collect Date: 10-SEP-20 11:31
Receive Date: 16-SEP-20
Collector: Client
Moisture: 8.2%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.349	1.03	mg/kg	9.43	1	LXA2	09/18/20	0319	2041392	1
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000388	0.00117	mg/kg	1.07	1	JP1	09/18/20	2243	2041711	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/10/20	1131	2041705
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	1024	2041391

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	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0536 mg/kg	0.0500	92	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0552 mg/kg	0.0500	95	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0592 mg/kg	0.0500	102	(81%-120%)

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

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

Client Sample ID: C-62-4
Sample ID: 521515020
Matrix: Soil
Collect Date: 10-SEP-20 11:36
Receive Date: 16-SEP-20
Collector: Client
Moisture: 7.65%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.727	0.357	1.05	mg/kg	9.71	1	LXA2	09/18/20	0347	2041392	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	1024	2041391

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: September 30, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-62-5	Project:	WNUC00901
Sample ID:	521515021	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	10-SEP-20 11:40		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	7.54%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.370	1.09	mg/kg	10.1	1	JLD1	09/18/20	1757	2041697	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CJ2	09/17/20	2016	2041696

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: September 30, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-13-1	Project:	WNUC00901
Sample ID:	521515022	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	10-SEP-20 12:06		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	6.84%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		2.92	0.370	1.09	mg/kg	10.1	1	JLD1	09/18/20	1927	2041697	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CJ2	09/17/20	2016	2041696

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: September 30, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-13-2	Project:	WNUC00901
Sample ID:	521515023	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	10-SEP-20 12:11		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	4.89%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.74	0.359	1.06	mg/kg	10.1	1	JLD1	09/18/20	1957	2041697	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CJ2	09/17/20	2016	2041696

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: September 30, 2020

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

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

Client Sample ID: C-13-3
Sample ID: 521515024
Matrix: Soil
Collect Date: 10-SEP-20 12:15
Receive Date: 16-SEP-20
Collector: Client
Moisture: 10.4%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		2.25	0.380	1.12	mg/kg	10.0	1	JLD1	09/18/20	2026	2041697	1
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000320	0.000961	mg/kg	0.861	1	JP1	09/18/20	2308	2041711	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/10/20	1215	2041705
SW846 9056A	SW846 9056A Total Anions in Soil	CJ2	09/17/20	2016	2041696

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	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0470 mg/kg	0.0500	98	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0463 mg/kg	0.0500	96	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0495 mg/kg	0.0500	103	(81%-120%)

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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Report Date: September 30, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-13-4	Project:	WNUC00901
Sample ID:	521515025	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	10-SEP-20 12:21		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	13.4%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.43	0.387	1.14	mg/kg	9.85	1	JLD1	09/18/20	2056	2041697	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CJ2	09/17/20	2016	2041696

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

Client Sample ID:	C-13-5	Project:	WNUC00901
Sample ID:	521515026	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	10-SEP-20 12:25		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	14.1%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	1.10	0.391	1.15	mg/kg	9.88	1	JLD1	09/18/20	2126	2041697	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CJ2	09/17/20	2016	2041696

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: September 30, 2020

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

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

Client Sample ID: C-36-1
Sample ID: 521515027
Matrix: Soil
Collect Date: 12-SEP-20 06:58
Receive Date: 16-SEP-20
Collector: Client
Moisture: 11.9%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.382	1.12	mg/kg	9.90	1	JLD1	09/18/20	2256	2041697	1
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000336	0.00101	mg/kg	0.888	1	MXL2	09/22/20	1213	2042981	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	MXL2	09/22/20	1140	2042980
SW846 9056A	SW846 9056A Total Anions in Soil	CJ2	09/17/20	2016	2041696

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	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0471 mg/kg	0.0500	93	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0508 mg/kg	0.0500	101	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0552 mg/kg	0.0500	110	(81%-120%)

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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Report Date: September 30, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-36-2	Project:	WNUC00901
Sample ID:	521515028	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	12-SEP-20 07:06		
Receive Date:	16-SEP-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		1.50	0.390	1.15	mg/kg	10.1	1	JLD1	09/18/20	2326	2041697	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CJ2	09/17/20	2016	2041696

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: September 30, 2020

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Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-36-3	Project:	WNUC00901
Sample ID:	521515029	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	12-SEP-20 07:11		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	10.4%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.80	0.379	1.11	mg/kg	9.98	1	JLD1	09/18/20	2356	2041697	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CJ2	09/17/20	2016	2041696

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 Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-36-4	Project:	WNUC00901
Sample ID:	521515030	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	12-SEP-20 07:15		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	10.1%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		2.05	0.378	1.11	mg/kg	10.0	1	JLD1	09/19/20	0025	2041697	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CJ2	09/17/20	2016	2041696

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 Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-37-5	Project:	WNUC00901
Sample ID:	521515031	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	12-SEP-20 08:05		
Receive Date:	16-SEP-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	0.388	1.14	mg/kg	10.1	1	JLD1	09/19/20	0055	2041697	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CJ2	09/17/20	2016	2041696

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: September 30, 2020

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

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

Client Sample ID: C-37-6
Sample ID: 521515032
Matrix: Soil
Collect Date: 12-SEP-20 08:10
Receive Date: 16-SEP-20
Collector: Client
Moisture: 10.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		3.14	0.382	1.12	mg/kg	10.1	1	JLD1	09/19/20	0125	2041697	1
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000310	0.000932	mg/kg	0.838	1	MXL2	09/22/20	1238	2042981	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	MXL2	09/22/20	1141	2042980
SW846 9056A	SW846 9056A Total Anions in Soil	CJ2	09/17/20	2016	2041696

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	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0429 mg/kg	0.0500	92	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0491 mg/kg	0.0500	105	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0522 mg/kg	0.0500	112	(81%-120%)

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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Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
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Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-37-7	Project:	WNUC00901
Sample ID:	521515033	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	12-SEP-20 08:18		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	10.8%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		5.86	0.377	1.11	mg/kg	9.88	1	JLD1	09/19/20	0155	2041697	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CJ2	09/17/20	2016	2041696

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

Client Sample ID:	C-37-8	Project:	WNUC00901
Sample ID:	521515034	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	12-SEP-20 08:24		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	10.7%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		3.57	0.382	1.12	mg/kg	10.0	1	JLD1	09/19/20	0225	2041697	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CJ2	09/17/20	2016	2041696

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

Client Sample ID:	C-54-9	Project:	WNUC00901
Sample ID:	521515035	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	12-SEP-20 08:32		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	10.1%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.56	0.380	1.12	mg/kg	10.1	1	JLD1	09/19/20	0255	2041697	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CJ2	09/17/20	2016	2041696

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

Client Sample ID:	C-54-10	Project:	WNUC00901
Sample ID:	521515036	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	12-SEP-20 08:39		
Receive Date:	16-SEP-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		2.03	0.384	1.13	mg/kg	9.95	1	JLD1	09/19/20	0325	2041697	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CJ2	09/17/20	2016	2041696

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: September 30, 2020

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

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

Client Sample ID: C-54-11
Sample ID: 521515037
Matrix: Soil
Collect Date: 12-SEP-20 08:44
Receive Date: 16-SEP-20
Collector: Client
Moisture: 13.5%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.56	0.388	1.14	mg/kg	9.88	1	JLD1	09/19/20	0454	2041697	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CJ2	09/17/20	2016	2041696

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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

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

Client Sample ID: C-54-12
Sample ID: 521515038
Matrix: Soil
Collect Date: 12-SEP-20 08:49
Receive Date: 16-SEP-20
Collector: Client
Moisture: 11.5%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.77	0.385	1.13	mg/kg	10.0	1	JLD1	09/19/20	0524	2041697	1
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000268	0.000803	mg/kg	0.711	1	MXL2	09/22/20	1304	2042981	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	MXL2	09/22/20	1142	2042980
SW846 9056A	SW846 9056A Total Anions in Soil	CJ2	09/17/20	2016	2041696

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	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0365 mg/kg	0.0500	91	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0413 mg/kg	0.0500	103	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0443 mg/kg	0.0500	110	(81%-120%)

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

Client Sample ID:	S-45-1	Project:	WNUC00901
Sample ID:	521515039	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	15-SEP-20 12:15		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	13.9%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		8.76	0.396	1.16	mg/kg	10.0	1	LXA2	09/29/20	1759	2045532	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/29/20	1549	2045531

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 Teague
Project: ENV-CONSENTA-4500778461

Client Sample ID: S-45-2
Sample ID: 521515040
Matrix: Soil
Collect Date: 15-SEP-20 12:22
Receive Date: 16-SEP-20
Collector: Client
Moisture: 8.65%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.43	0.373	1.10	mg/kg	10.0	1	JLD1	09/18/20	1239	2041706	1
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000262	0.000786	mg/kg	0.718	1	JP1	09/24/20	2027	2044368	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/15/20	1222	2044367
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	2148	2041704

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	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0378 mg/kg	0.0500	96	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0365 mg/kg	0.0500	93	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0394 mg/kg	0.0500	100	(81%-120%)

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

Client Sample ID:	S-45-3	Project:	WNUC00901
Sample ID:	521515041	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	15-SEP-20 12:31		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	10.8%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		4.61	0.380	1.12	mg/kg	9.98	1	JLD1	09/18/20	1411	2041706	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	2148	2041704

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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Address :	PO Drawer R
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Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	S-46-1	Project:	WNUC00901
Sample ID:	521515042	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	15-SEP-20 11:51		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	11.1%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		16.8	0.381	1.12	mg/kg	9.98	1	JLD1	09/18/20	1442	2041706	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	2148	2041704

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: September 30, 2020

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

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

Client Sample ID: S-46-2
Sample ID: 521515043
Matrix: Soil
Collect Date: 15-SEP-20 11:59
Receive Date: 16-SEP-20
Collector: Client
Moisture: 19.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		24.8	0.411	1.21	mg/kg	9.78	1	JLD1	09/18/20	1513	2041706	1
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000359	0.00108	mg/kg	0.873	1	JP1	09/24/20	1935	2044368	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/15/20	1159	2044367
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	2148	2041704

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	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0503 mg/kg	0.0500	93	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0555 mg/kg	0.0500	103	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0558 mg/kg	0.0500	103	(81%-120%)

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: September 30, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	S-46-3	Project:	WNUC00901
Sample ID:	521515044	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	15-SEP-20 12:08		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	12.1%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		10.1	0.389	1.14	mg/kg	10.1	1	JLD1	09/18/20	1544	2041706	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	2148	2041704

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: September 30, 2020

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

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

Client Sample ID: ERT-1
Sample ID: 521515045
Matrix: Soil
Collect Date: 15-SEP-20 11:28
Receive Date: 16-SEP-20
Collector: Client
Moisture: 13.2%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.44	0.395	1.16	mg/kg	10.1	1	JLD1	09/18/20	1615	2041706	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	2148	2041704

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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: September 30, 2020

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

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

Client Sample ID: ERT-2
Sample ID: 521515046
Matrix: Soil
Collect Date: 15-SEP-20 11:32
Receive Date: 16-SEP-20
Collector: Client
Moisture: 12%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		7.11	0.389	1.15	mg/kg	10.1	1	JLD1	09/18/20	1747	2041706	1
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000240	0.000719	mg/kg	0.633	1	JP1	09/24/20	2001	2044368	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/15/20	1132	2044367
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	2148	2041704

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	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0343 mg/kg	0.0500	95	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0348 mg/kg	0.0500	97	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0365 mg/kg	0.0500	101	(81%-120%)

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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Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	ERT-3	Project:	WNUC00901
Sample ID:	521515047	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	15-SEP-20 11:37		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	14.3%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.42	0.399	1.17	mg/kg	10.1	1	JLD1	09/18/20	1818	2041706	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	09/17/20	2148	2041704

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: September 30, 2020

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

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

Client Sample ID: C-19-1
Sample ID: 521515001
Matrix: Soil
Collect Date: 10-SEP-20 09:43
Receive Date: 16-SEP-20
Collector: Client
Moisture: 6.51%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		0.552	+/-0.310	0.296	0.500	pCi/g			MG1	09/21/20	1507	2041554	1
Uranium-235/236		0.137	+/-0.180	0.137	0.500	pCi/g							
Uranium-238		0.996	+/-0.383	0.111	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.292	+/-0.389	0.678	1.00	pCi/g			JJ3	09/22/20	0720	2041826	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	09/17/20	0735	2041310

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/Solid "Dry Weight Corrected"			96.1	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94.5	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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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Report Date: September 30, 2020

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Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-19-2	Project:	WNUC00901
Sample ID:	521515002	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	10-SEP-20 09:46		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	4.68%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		0.964	+/-0.416	0.289	0.500	pCi/g			MG1	09/21/20	1507	2041554	1
Uranium-235/236	U	0.0523	+/-0.147	0.157	0.500	pCi/g							
Uranium-238		0.871	+/-0.402	0.313	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.318	+/-0.425	0.741	1.00	pCi/g			JJ3	09/22/20	0831	2041826	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	09/17/20	0735	2041310

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/Solid "Dry Weight Corrected"			82.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92.4	(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: September 30, 2020

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

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

Client Sample ID: C-19-3
Sample ID: 521515003
Matrix: Soil
Collect Date: 10-SEP-20 09:51
Receive Date: 16-SEP-20
Collector: Client
Moisture: 8.68%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.86	+/-0.537	0.311	0.500	pCi/g			MG1	09/21/20	1507	2041554	1
Uranium-235/236	U	0.0926	+/-0.159	0.139	0.500	pCi/g							
Uranium-238		1.07	+/-0.403	0.208	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0505	+/-0.452	0.777	1.00	pCi/g			JJ3	09/22/20	0942	2041826	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	09/17/20	0735	2041310

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/Solid "Dry Weight Corrected"			99.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			84.6	(15%-125%)

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

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: September 30, 2020

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

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

Client Sample ID: C-19-4
Sample ID: 521515004
Matrix: Soil
Collect Date: 10-SEP-20 09:58
Receive Date: 16-SEP-20
Collector: Client
Moisture: 9.32%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		5.04	+/-0.854	0.242	0.500	pCi/g			MG1	09/21/20	1507	2041554	1
Uranium-235/236		0.321	+/-0.255	0.138	0.500	pCi/g							
Uranium-238		2.01	+/-0.545	0.227	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.359	+/-0.400	0.699	1.00	pCi/g			JJ3	09/22/20	1053	2041826	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	09/17/20	0735	2041310

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/Solid "Dry Weight Corrected"			93.9	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			93.6	(15%-125%)

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

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: September 30, 2020

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

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

Client Sample ID: C-19-5
Sample ID: 521515005
Matrix: Soil
Collect Date: 10-SEP-20 10:02
Receive Date: 16-SEP-20
Collector: Client
Moisture: 9.9%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		25.7	+/-2.14	0.328	0.500	pCi/g			MG1	09/21/20	1507	2041554	1
Uranium-235/236		1.43	+/-0.570	0.171	0.500	pCi/g							
Uranium-238		7.27	+/-1.14	0.255	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.370	+/-0.428	0.749	1.00	pCi/g			JJ3	09/22/20	1204	2041826	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	09/17/20	0735	2041310

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/Solid "Dry Weight Corrected"			73.1	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			90.4	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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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Report Date: September 30, 2020

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

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

Client Sample ID: C-21-1
Sample ID: 521515006
Matrix: Soil
Collect Date: 10-SEP-20 10:13
Receive Date: 16-SEP-20
Collector: Client
Moisture: 10%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		2.93	+/-0.790	0.422	0.500	pCi/g			MG1	09/21/20	1507	2041554	1
Uranium-235/236	U	0.178	+/-0.257	0.310	0.500	pCi/g							
Uranium-238		1.08	+/-0.496	0.387	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.186	+/-0.437	0.757	1.00	pCi/g			JJ3	09/22/20	1315	2041826	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	09/17/20	0735	2041310

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/Solid "Dry Weight Corrected"			66.8	(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
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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Report Date: September 30, 2020

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

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

Client Sample ID: C-21-2
Sample ID: 521515007
Matrix: Soil
Collect Date: 10-SEP-20 10:16
Receive Date: 16-SEP-20
Collector: Client
Moisture: 9.05%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.66	+/-0.508	0.251	0.500	pCi/g			MG1	09/21/20	1508	2041554	1
Uranium-235/236	U	0.0954	+/-0.163	0.143	0.500	pCi/g							
Uranium-238		0.878	+/-0.371	0.185	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.286	+/-0.445	0.775	1.00	pCi/g			JJ3	09/24/20	0118	2041826	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	09/17/20	0735	2041310

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/Solid "Dry Weight Corrected"			91.4	(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
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: September 30, 2020

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

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

Client Sample ID: C-21-3
Sample ID: 521515008
Matrix: Soil
Collect Date: 10-SEP-20 10:18
Receive Date: 16-SEP-20
Collector: Client
Moisture: 10.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.90	+/-0.507	0.208	0.500	pCi/g			MG1	09/21/20	1508	2041554	1
Uranium-235/236		0.126	+/-0.166	0.126	0.500	pCi/g							
Uranium-238		1.05	+/-0.377	0.102	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.394	+/-0.424	0.743	1.00	pCi/g			JJ3	09/22/20	1538	2041826	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	09/17/20	0735	2041310

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/Solid "Dry Weight Corrected"			103	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			90.4	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 30, 2020

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

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

Client Sample ID: C-21-4
Sample ID: 521515009
Matrix: Soil
Collect Date: 10-SEP-20 10:28
Receive Date: 16-SEP-20
Collector: Client
Moisture: 8.29%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.50	+/-0.527	0.346	0.500	pCi/g			MG1	09/21/20	1508	2041554	1
Uranium-235/236	U	-0.0131	+/-0.113	0.261	0.500	pCi/g							
Uranium-238		1.23	+/-0.465	0.132	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.199	+/-0.405	0.702	1.00	pCi/g			JJ3	09/22/20	1649	2041826	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	09/17/20	0735	2041310

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/Solid "Dry Weight Corrected"			77.1	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			89.3	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 30, 2020

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

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

Client Sample ID: C-21-5
Sample ID: 521515010
Matrix: Soil
Collect Date: 10-SEP-20 10:31
Receive Date: 16-SEP-20
Collector: Client
Moisture: 10.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		2.26	+/-0.664	0.430	0.500	pCi/g			MG1	09/21/20	1508	2041554	1
Uranium-235/236	U	0.144	+/-0.229	0.317	0.500	pCi/g							
Uranium-238		1.20	+/-0.482	0.305	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.289	+/-0.373	0.650	1.00	pCi/g			JJ3	09/22/20	1800	2041826	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	09/17/20	0735	2041310

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/Solid "Dry Weight Corrected"			78.2	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			90.6	(15%-125%)

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

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: September 30, 2020

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

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

Client Sample ID: C-21-6
Sample ID: 521515011
Matrix: Soil
Collect Date: 10-SEP-20 10:35
Receive Date: 16-SEP-20
Collector: Client
Moisture: 12.2%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		0.843	+/-0.370	0.250	0.500	pCi/g			MG1	09/21/20	1508	2041554	1
Uranium-235/236	U	0.0361	+/-0.136	0.228	0.500	pCi/g							
Uranium-238		1.06	+/-0.407	0.213	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.287	+/-0.427	0.742	1.00	pCi/g			JJ3	09/22/20	1911	2041826	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	09/17/20	0735	2041310

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/Solid "Dry Weight Corrected"			90	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			90.6	(15%-125%)

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

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: September 30, 2020

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

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

Client Sample ID: C-24-1
Sample ID: 521515012
Matrix: Soil
Collect Date: 10-SEP-20 11:02
Receive Date: 16-SEP-20
Collector: Client
Moisture: 10.9%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.84	+/-0.556	0.265	0.500	pCi/g			MG1	09/21/20	1508	2041554	1
Uranium-235/236	U	0.000	+/-0.104	0.155	0.500	pCi/g							
Uranium-238		1.34	+/-0.480	0.275	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.410	+/-0.429	0.752	1.00	pCi/g			JJ3	09/22/20	2022	2041826	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	09/17/20	0735	2041310

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/Solid "Dry Weight Corrected"			78.7	(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
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: September 30, 2020

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

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

Client Sample ID: C-24-2
Sample ID: 521515013
Matrix: Soil
Collect Date: 10-SEP-20 11:05
Receive Date: 16-SEP-20
Collector: Client
Moisture: 8.65%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.04	+/-0.436	0.277	0.500	pCi/g			MG1	09/21/20	1508	2041554	1
Uranium-235/236	U	0.000	+/-0.108	0.161	0.500	pCi/g							
Uranium-238		0.871	+/-0.392	0.131	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.324	+/-0.432	0.752	1.00	pCi/g			JJ3	09/22/20	2133	2041826	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	09/17/20	0735	2041310

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/Solid "Dry Weight Corrected"			81.7	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			91.7	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 30, 2020

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

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

Client Sample ID: C-24-3
Sample ID: 521515014
Matrix: Soil
Collect Date: 10-SEP-20 11:08
Receive Date: 16-SEP-20
Collector: Client
Moisture: 7.3%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		0.410	+/-0.255	0.228	0.500	pCi/g			MG1	09/21/20	1508	2041554	1
Uranium-235/236		0.128	+/-0.169	0.128	0.500	pCi/g							
Uranium-238		0.667	+/-0.312	0.211	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.299	+/-0.398	0.695	1.00	pCi/g			JJ3	09/22/20	2245	2041826	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	09/17/20	0735	2041310

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/Solid "Dry Weight Corrected"			95.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			91.7	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 30, 2020

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

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

Client Sample ID: C-24-4
Sample ID: 521515015
Matrix: Soil
Collect Date: 10-SEP-20 11:13
Receive Date: 16-SEP-20
Collector: Client
Moisture: 10.7%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.64	+/-0.527	0.311	0.500	pCi/g			MG1	09/21/20	1508	2041554	1
Uranium-235/236	U	0.101	+/-0.173	0.151	0.500	pCi/g							
Uranium-238		1.04	+/-0.417	0.226	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.293	+/-0.392	0.684	1.00	pCi/g			JJ3	09/22/20	2356	2041826	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	09/17/20	0735	2041310

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/Solid "Dry Weight Corrected"			85	(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
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: September 30, 2020

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

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

Client Sample ID: C-24-5
Sample ID: 521515016
Matrix: Soil
Collect Date: 10-SEP-20 11:17
Receive Date: 16-SEP-20
Collector: Client
Moisture: 10.6%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		0.991	+/-0.393	0.258	0.500	pCi/g			MG1	09/21/20	1508	2041554	1
Uranium-235/236	U	0.0459	+/-0.129	0.138	0.500	pCi/g							
Uranium-238		0.837	+/-0.358	0.206	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.357	+/-0.376	0.658	1.00	pCi/g			JJ3	09/23/20	0107	2041826	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	09/17/20	0735	2041310

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/Solid "Dry Weight Corrected"			93.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92.8	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 30, 2020

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

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

Client Sample ID: C-62-1
Sample ID: 521515017
Matrix: Soil
Collect Date: 10-SEP-20 11:24
Receive Date: 16-SEP-20
Collector: Client
Moisture: 11%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.19	+/-0.494	0.518	0.500	pCi/g			MG1	09/21/20	1514	2041554	1
Uranium-235/236	U	-0.0527	+/-0.215	0.508	0.500	pCi/g							
Uranium-238		1.46	+/-0.500	0.374	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.139	+/-0.432	0.745	1.00	pCi/g			JJ3	09/23/20	0331	2041826	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	09/17/20	0735	2041310

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/Solid "Dry Weight Corrected"			67.3	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			86.4	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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

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

Certificate of Analysis

Report Date: September 30, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-62-2	Project:	WNUC00901
Sample ID:	521515018	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	10-SEP-20 11:27		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	10.6%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.19	+/-0.442	0.307	0.500	pCi/g			MG1	09/21/20	1816	2041554	1
Uranium-235/236	U	0.000	+/-0.0959	0.143	0.500	pCi/g							
Uranium-238		0.973	+/-0.394	0.235	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.508	+/-0.407	0.719	1.00	pCi/g			JJ3	09/23/20	0442	2041826	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	09/17/20	0735	2041310

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/Solid "Dry Weight Corrected"			91.1	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			89	(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: September 30, 2020

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

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

Client Sample ID: C-62-3
Sample ID: 521515019
Matrix: Soil
Collect Date: 10-SEP-20 11:31
Receive Date: 16-SEP-20
Collector: Client
Moisture: 8.2%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.01	+/-0.396	0.271	0.500	pCi/g			MG1	09/21/20	1816	2041554	1
Uranium-235/236	U	-0.0327	+/-0.0987	0.277	0.500	pCi/g							
Uranium-238		1.03	+/-0.388	0.110	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.0390	+/-0.423	0.724	1.00	pCi/g			JJ3	09/23/20	0553	2041826	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	09/17/20	0735	2041310

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/Solid "Dry Weight Corrected"			99.2	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			91.6	(15%-125%)

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

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: September 30, 2020

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

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

Client Sample ID: C-62-4
Sample ID: 521515020
Matrix: Soil
Collect Date: 10-SEP-20 11:36
Receive Date: 16-SEP-20
Collector: Client
Moisture: 7.65%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		4.03	+/-0.772	0.372	0.500	pCi/g			MG1	09/21/20	1953	2041554	1
Uranium-235/236	U	0.0923	+/-0.184	0.298	0.500	pCi/g							
Uranium-238		1.36	+/-0.470	0.373	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.107	+/-0.409	0.706	1.00	pCi/g			JJ3	09/23/20	0704	2041826	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	09/17/20	0735	2041310

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/Solid "Dry Weight Corrected"			71.5	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			88.4	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 30, 2020

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

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

Client Sample ID: C-62-5
Sample ID: 521515021
Matrix: Soil
Collect Date: 10-SEP-20 11:40
Receive Date: 16-SEP-20
Collector: Client
Moisture: 7.54%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.44	+/-0.464	0.308	0.500	pCi/g			MP2	09/21/20	1513	2041556	1
Uranium-235/236	U	0.0439	+/-0.123	0.132	0.500	pCi/g							
Uranium-238		0.712	+/-0.329	0.234	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.102	+/-0.401	0.695	1.00	pCi/g			JJ3	09/22/20	0416	2041829	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	09/17/20	0740	2041311

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/Solid "Dry Weight Corrected"			95	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92.9	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 30, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-13-1	Project:	WNUC00901
Sample ID:	521515022	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	10-SEP-20 12:06		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	6.84%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		2.10	+/-0.477	0.283	0.500	pCi/g			MP2	09/21/20	1513	2041556	1
Uranium-235/236	U	0.0904	+/-0.146	0.226	0.500	pCi/g							
Uranium-238		0.798	+/-0.296	0.193	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0751	+/-0.399	0.706	1.00	pCi/g			JJ3	09/22/20	0458	2041829	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	09/17/20	0740	2041311

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/Solid "Dry Weight Corrected"			113	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			88.7	(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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Report Date: September 30, 2020

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

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

Client Sample ID: C-13-2
Sample ID: 521515023
Matrix: Soil
Collect Date: 10-SEP-20 12:11
Receive Date: 16-SEP-20
Collector: Client
Moisture: 4.89%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.24	+/-0.425	0.360	0.500	pCi/g			MP2	09/21/20	1513	2041556	1
Uranium-235/236		0.237	+/-0.205	0.118	0.500	pCi/g							
Uranium-238		1.09	+/-0.377	0.195	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0788	+/-0.395	0.698	1.00	pCi/g			JJ3	09/22/20	0541	2041829	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	09/17/20	0740	2041311

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/Solid "Dry Weight Corrected"			84.1	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			96	(15%-125%)

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

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: September 30, 2020

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

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

Client Sample ID: C-13-3
Sample ID: 521515024
Matrix: Soil
Collect Date: 10-SEP-20 12:15
Receive Date: 16-SEP-20
Collector: Client
Moisture: 10.4%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.40	+/-0.433	0.272	0.500	pCi/g			MP2	09/21/20	1514	2041556	1
Uranium-235/236	U	0.109	+/-0.158	0.190	0.500	pCi/g							
Uranium-238		0.907	+/-0.345	0.196	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.312	+/-0.424	0.770	1.00	pCi/g			JJ3	09/22/20	0623	2041829	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	09/17/20	0740	2041311

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/Solid "Dry Weight Corrected"			88.5	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			90.3	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 30, 2020

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

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

Client Sample ID: C-13-4
Sample ID: 521515025
Matrix: Soil
Collect Date: 10-SEP-20 12:21
Receive Date: 16-SEP-20
Collector: Client
Moisture: 13.4%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.52	+/-0.460	0.281	0.500	pCi/g			MP2	09/21/20	1514	2041556	1
Uranium-235/236	U	0.0313	+/-0.118	0.198	0.500	pCi/g							
Uranium-238		1.08	+/-0.382	0.185	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.213	+/-0.485	0.867	1.00	pCi/g			JJ3	09/22/20	0706	2041829	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	09/17/20	0740	2041311

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/Solid "Dry Weight Corrected"			89.5	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			91.6	(15%-125%)

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

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: September 30, 2020

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

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

Client Sample ID: C-13-5
Sample ID: 521515026
Matrix: Soil
Collect Date: 10-SEP-20 12:25
Receive Date: 16-SEP-20
Collector: Client
Moisture: 14.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.27	+/-0.402	0.252	0.500	pCi/g			MP2	09/21/20	1514	2041556	1
Uranium-235/236	U	0.208	+/-0.197	0.208	0.500	pCi/g							
Uranium-238		1.08	+/-0.370	0.225	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0890	+/-0.423	0.749	1.00	pCi/g			JJ3	09/22/20	0748	2041829	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	09/17/20	0740	2041311

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/Solid "Dry Weight Corrected"			99.3	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			86.5	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 30, 2020

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

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

Client Sample ID: C-36-1
Sample ID: 521515027
Matrix: Soil
Collect Date: 12-SEP-20 06:58
Receive Date: 16-SEP-20
Collector: Client
Moisture: 11.9%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.03	+/-0.394	0.293	0.500	pCi/g			MP2	09/21/20	1514	2041556	1
Uranium-235/236	U	0.0448	+/-0.153	0.284	0.500	pCi/g							
Uranium-238		0.958	+/-0.369	0.193	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0689	+/-0.405	0.717	1.00	pCi/g			JJ3	09/22/20	0831	2041829	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	09/17/20	0740	2041311

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/Solid "Dry Weight Corrected"			85.5	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			90.1	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 30, 2020

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

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

Client Sample ID: C-36-2
Sample ID: 521515028
Matrix: Soil
Collect Date: 12-SEP-20 07:06
Receive Date: 16-SEP-20
Collector: Client
Moisture: 11.6%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		0.942	+/-0.390	0.264	0.500	pCi/g			MP2	09/21/20	1504	2041556	1
Uranium-235/236	U	0.0245	+/-0.136	0.261	0.500	pCi/g							
Uranium-238		0.982	+/-0.389	0.183	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.203	+/-0.378	0.681	1.00	pCi/g			JJ3	09/22/20	0913	2041829	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	09/17/20	0740	2041311

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/Solid "Dry Weight Corrected"			91.4	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.6	(15%-125%)

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

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: September 30, 2020

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

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

Client Sample ID: C-36-3
Sample ID: 521515029
Matrix: Soil
Collect Date: 12-SEP-20 07:11
Receive Date: 16-SEP-20
Collector: Client
Moisture: 10.4%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.66	+/-0.562	0.370	0.500	pCi/g			MP2	09/21/20	1504	2041556	1
Uranium-235/236	U	-0.0134	+/-0.115	0.267	0.500	pCi/g							
Uranium-238		0.992	+/-0.424	0.135	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.119	+/-0.382	0.679	1.00	pCi/g			JJ3	09/22/20	0956	2041829	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	09/17/20	0740	2041311

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/Solid "Dry Weight Corrected"			82.1	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			93.7	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 30, 2020

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

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

Client Sample ID: C-36-4
Sample ID: 521515030
Matrix: Soil
Collect Date: 12-SEP-20 07:15
Receive Date: 16-SEP-20
Collector: Client
Moisture: 10.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.19	+/-0.419	0.263	0.500	pCi/g			MP2	09/21/20	1504	2041556	1
Uranium-235/236	U	0.0879	+/-0.151	0.132	0.500	pCi/g							
Uranium-238		0.694	+/-0.321	0.197	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0725	+/-0.464	0.820	1.00	pCi/g			JJ3	09/22/20	1038	2041829	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	09/17/20	0740	2041311

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/Solid "Dry Weight Corrected"			96.9	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			88.3	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 30, 2020

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

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

Client Sample ID: C-37-5
Sample ID: 521515031
Matrix: Soil
Collect Date: 12-SEP-20 08:05
Receive Date: 16-SEP-20
Collector: Client
Moisture: 11.5%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		0.862	+/-0.387	0.261	0.500	pCi/g			MP2	09/21/20	1504	2041556	1
Uranium-235/236	U	0.101	+/-0.174	0.152	0.500	pCi/g							
Uranium-238		1.12	+/-0.435	0.251	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.469	+/-0.404	0.748	1.00	pCi/g			JJ3	09/22/20	1121	2041829	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	09/17/20	0740	2041311

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/Solid "Dry Weight Corrected"			85.7	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			91.4	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 30, 2020

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

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

Client Sample ID: C-37-6
Sample ID: 521515032
Matrix: Soil
Collect Date: 12-SEP-20 08:10
Receive Date: 16-SEP-20
Collector: Client
Moisture: 10.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.16	+/-0.444	0.280	0.500	pCi/g			MP2	09/21/20	1505	2041556	1
Uranium-235/236	U	0.0381	+/-0.143	0.240	0.500	pCi/g							
Uranium-238		0.782	+/-0.366	0.248	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0800	+/-0.387	0.686	1.00	pCi/g			JJ3	09/22/20	1204	2041829	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	09/17/20	0740	2041311

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/Solid "Dry Weight Corrected"			102	(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
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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Report Date: September 30, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-37-7	Project:	WNUC00901
Sample ID:	521515033	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	12-SEP-20 08:18		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	10.8%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		0.790	+/-0.374	0.294	0.500	pCi/g			MP2	09/21/20	1505	2041556	1
Uranium-235/236	U	0.000	+/-0.101	0.150	0.500	pCi/g							
Uranium-238		0.994	+/-0.406	0.224	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.148	+/-0.367	0.657	1.00	pCi/g			JJ3	09/22/20	1246	2041829	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	09/17/20	0740	2041311

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/Solid "Dry Weight Corrected"			88	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92.8	(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: September 30, 2020

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

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

Client Sample ID: C-37-8
Sample ID: 521515034
Matrix: Soil
Collect Date: 12-SEP-20 08:24
Receive Date: 16-SEP-20
Collector: Client
Moisture: 10.7%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.05	+/-0.397	0.239	0.500	pCi/g			MP2	09/21/20	1505	2041556	1
Uranium-235/236	U	0.000	+/-0.0905	0.135	0.500	pCi/g							
Uranium-238		0.718	+/-0.327	0.174	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.416	+/-0.371	0.686	1.00	pCi/g			JJ3	09/22/20	1329	2041829	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	09/17/20	0740	2041311

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/Solid "Dry Weight Corrected"			94.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			93.9	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 30, 2020

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

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

Client Sample ID: C-54-9
Sample ID: 521515035
Matrix: Soil
Collect Date: 12-SEP-20 08:32
Receive Date: 16-SEP-20
Collector: Client
Moisture: 10.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.21	+/-0.442	0.304	0.500	pCi/g			MP2	09/21/20	1505	2041556	1
Uranium-235/236		0.141	+/-0.185	0.141	0.500	pCi/g							
Uranium-238		1.09	+/-0.416	0.266	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.0786	+/-0.409	0.711	1.00	pCi/g			JJ3	09/22/20	1411	2041829	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	09/17/20	0740	2041311

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/Solid "Dry Weight Corrected"			93	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			88.4	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 30, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-54-10	Project:	WNUC00901
Sample ID:	521515036	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	12-SEP-20 08:39		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	12%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.41	+/-0.493	0.312	0.500	pCi/g			MP2	09/21/20	1505	2041556	1
Uranium-235/236	U	-0.0366	+/-0.111	0.311	0.500	pCi/g							
Uranium-238		1.02	+/-0.412	0.197	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.300	+/-0.363	0.663	1.00	pCi/g			JJ3	09/22/20	1454	2041829	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	09/17/20	0740	2041311

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/Solid "Dry Weight Corrected"			82	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			96	(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: September 30, 2020

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

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

Client Sample ID: C-54-11
Sample ID: 521515037
Matrix: Soil
Collect Date: 12-SEP-20 08:44
Receive Date: 16-SEP-20
Collector: Client
Moisture: 13.5%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		0.996	+/-0.416	0.317	0.500	pCi/g			MP2	09/21/20	1505	2041556	1
Uranium-235/236	U	0.0866	+/-0.170	0.236	0.500	pCi/g							
Uranium-238		0.757	+/-0.350	0.119	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0317	+/-0.510	0.896	1.00	pCi/g			JJ3	09/22/20	1536	2041829	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	09/17/20	0740	2041311

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/Solid "Dry Weight Corrected"			86.8	(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
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: September 30, 2020

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

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

Client Sample ID: C-54-12
Sample ID: 521515038
Matrix: Soil
Collect Date: 12-SEP-20 08:49
Receive Date: 16-SEP-20
Collector: Client
Moisture: 11.5%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.56	+/-0.504	0.349	0.500	pCi/g			MP2	09/21/20	1505	2041556	1
Uranium-235/236	U	-0.0113	+/-0.0974	0.226	0.500	pCi/g							
Uranium-238		1.24	+/-0.436	0.211	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.259	+/-0.374	0.678	1.00	pCi/g			JJ3	09/22/20	1619	2041829	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	09/17/20	0740	2041311

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/Solid "Dry Weight Corrected"			89.2	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			91.6	(15%-125%)

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

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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Report Date: September 30, 2020

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

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

Client Sample ID: S-45-1
Sample ID: 521515039
Matrix: Soil
Collect Date: 15-SEP-20 12:15
Receive Date: 16-SEP-20
Collector: Client
Moisture: 13.9%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		14.5	+/-1.50	0.258	0.500	pCi/g			MP2	09/21/20	1505	2041556	1
Uranium-235/236		0.791	+/-0.400	0.148	0.500	pCi/g							
Uranium-238		4.16	+/-0.808	0.264	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0723	+/-0.415	0.734	1.00	pCi/g			JJ3	09/22/20	1701	2041829	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	09/17/20	0740	2041311

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/Solid "Dry Weight Corrected"			92.8	(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
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: September 30, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	S-45-2	Project:	WNUC00901
Sample ID:	521515040	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	15-SEP-20 12:22		
Receive Date:	16-SEP-20		
Collector:	Client		
Moisture:	8.65%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		0.777	+/-0.419	0.428	0.500	pCi/g			MP2	09/21/20	1505	2041556	1
Uranium-235/236	U	0.100	+/-0.197	0.273	0.500	pCi/g							
Uranium-238		0.933	+/-0.425	0.281	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.384	+/-0.398	0.730	1.00	pCi/g			JJ3	09/22/20	1744	2041829	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	09/17/20	0740	2041311

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/Solid "Dry Weight Corrected"			80.3	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			91.3	(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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Certificate of Analysis

Report Date: September 30, 2020

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

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

Client Sample ID: S-45-3
Sample ID: 521515041
Matrix: Soil
Collect Date: 15-SEP-20 12:31
Receive Date: 16-SEP-20
Collector: Client
Moisture: 10.8%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.69	+/-0.443	0.280	0.500	pCi/g			MXS2	09/21/20	1513	2041557	1
Uranium-235/236	U	0.0862	+/-0.137	0.189	0.500	pCi/g							
Uranium-238		0.723	+/-0.301	0.255	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.140	+/-0.373	0.643	1.00	pCi/g			JJ3	09/22/20	2053	2041831	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	09/17/20	0743	2041312

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/Solid "Dry Weight Corrected"			92	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			91.6	(15%-125%)

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

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: September 30, 2020

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

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

Client Sample ID: S-46-1
Sample ID: 521515042
Matrix: Soil
Collect Date: 15-SEP-20 11:51
Receive Date: 16-SEP-20
Collector: Client
Moisture: 11.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		16.2	+/-1.40	0.329	0.500	pCi/g			MXS2	09/21/20	1513	2041557	1
Uranium-235/236		0.932	+/-0.398	0.313	0.500	pCi/g							
Uranium-238		4.49	+/-0.743	0.243	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.293	+/-0.411	0.697	1.00	pCi/g			JJ3	09/22/20	2135	2041831	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	09/17/20	0743	2041312

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/Solid "Dry Weight Corrected"			91	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92.6	(15%-125%)

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

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: September 30, 2020

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

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

Client Sample ID: S-46-2
Sample ID: 521515043
Matrix: Soil
Collect Date: 15-SEP-20 11:59
Receive Date: 16-SEP-20
Collector: Client
Moisture: 19.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		9.56	+/-1.08	0.276	0.500	pCi/g			MXS2	09/21/20	1513	2041557	1
Uranium-235/236		0.417	+/-0.264	0.186	0.500	pCi/g							
Uranium-238		3.75	+/-0.676	0.150	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.175	+/-0.464	0.799	1.00	pCi/g			JJ3	09/22/20	2218	2041831	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	09/17/20	0743	2041312

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/Solid "Dry Weight Corrected"			91.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			91.4	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 30, 2020

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

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

Client Sample ID: S-46-3
Sample ID: 521515044
Matrix: Soil
Collect Date: 15-SEP-20 12:08
Receive Date: 16-SEP-20
Collector: Client
Moisture: 12.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		8.89	+/-0.976	0.284	0.500	pCi/g			MXS2	09/21/20	1513	2041557	1
Uranium-235/236		0.491	+/-0.267	0.187	0.500	pCi/g							
Uranium-238		3.20	+/-0.586	0.192	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.192	+/-0.363	0.620	1.00	pCi/g			JJ3	09/22/20	2300	2041831	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	09/17/20	0743	2041312

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/Solid "Dry Weight Corrected"			105	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94.3	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 30, 2020

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

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

Client Sample ID: ERT-1
Sample ID: 521515045
Matrix: Soil
Collect Date: 15-SEP-20 11:28
Receive Date: 16-SEP-20
Collector: Client
Moisture: 13.2%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.11	+/-0.426	0.375	0.500	pCi/g			MXS2	09/21/20	1513	2041557	1
Uranium-235/236	U	0.0122	+/-0.128	0.266	0.500	pCi/g							
Uranium-238		0.552	+/-0.316	0.343	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.0316	+/-0.385	0.674	1.00	pCi/g			JJ3	09/22/20	2343	2041831	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	09/17/20	0743	2041312

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/Solid "Dry Weight Corrected"			80.7	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			93.8	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 30, 2020

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

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

Client Sample ID: ERT-2
Sample ID: 521515046
Matrix: Soil
Collect Date: 15-SEP-20 11:32
Receive Date: 16-SEP-20
Collector: Client
Moisture: 12%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		6.74	+/-0.815	0.276	0.500	pCi/g			MXS2	09/21/20	1513	2041557	1
Uranium-235/236		0.456	+/-0.243	0.148	0.500	pCi/g							
Uranium-238		1.96	+/-0.445	0.217	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.153	+/-0.424	0.731	1.00	pCi/g			JJ3	09/23/20	0025	2041831	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	09/17/20	0743	2041312

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/Solid "Dry Weight Corrected"			99.5	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			91.7	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: September 30, 2020

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

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

Client Sample ID: ERT-3
Sample ID: 521515047
Matrix: Soil
Collect Date: 15-SEP-20 11:37
Receive Date: 16-SEP-20
Collector: Client
Moisture: 14.3%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		3.17	+/-0.646	0.303	0.500	pCi/g			MXS2	09/21/20	1513	2041557	1
Uranium-235/236	U	0.154	+/-0.200	0.283	0.500	pCi/g							
Uranium-238		1.19	+/-0.409	0.293	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.109	+/-0.416	0.721	1.00	pCi/g			JJ3	09/23/20	0108	2041831	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	09/17/20	0743	2041312

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/Solid "Dry Weight Corrected"			78.9	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94.5	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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

QC Summary

Report Date: September 30, 2020

Westinghouse Electric Company, LLC
PO Drawer R
Columbia, South Carolina

Contact: **Ms. Cynthia Teague**

Workorder: **521515**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2041392										
QC1204645105 521515001 DUP										
Fluoride	J	0.724	U	ND	mg/kg	200 ^			LXA2	09/18/20 23:16
QC1204645107 521515020 DUP										
Fluoride	J	0.727	J	0.765	mg/kg	5.02 ^		(+/-1.08)		09/18/20 04:14
QC1204645104 LCS										
Fluoride	24.6			23.9	mg/kg		97.2	(90%-110%)		09/17/20 16:04
QC1204645103 MB										
Fluoride			U	ND	mg/kg					09/17/20 15:37
QC1204645106 521515001 MS										
Fluoride	26.1	J 0.724		6.49	mg/kg		22.1*	(75%-125%)		09/18/20 23:43
QC1204645108 521515020 MS										
Fluoride	26.8	J 0.727		9.47	mg/kg		32.6*	(75%-125%)		09/18/20 04:41
Batch 2041697										
QC1204645756 521515021 DUP										
Fluoride	U	ND	U	ND	mg/kg	N/A			JLD1	09/18/20 18:27
QC1204645754 LCS										
Fluoride	25.2			25.4	mg/kg		101	(90%-110%)		09/18/20 17:27
QC1204645753 MB										
Fluoride			U	ND	mg/kg					09/18/20 16:58
QC1204645758 521515021 MS										
Fluoride	27.2	U ND		7.44	mg/kg		27.4*	(75%-125%)		09/18/20 18:57

QC Summary

Workorder: **521515**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2041706										
QC1204645761 521515040 DUP										
Fluoride		1.43		1.37	mg/kg	3.78 ^		(+/-1.09)	JLD1	09/18/20 13:10
QC1204645760 LCS										
Fluoride	25.2			24.6	mg/kg		97.8	(90%-110%)		09/19/20 13:39
QC1204645759 MB										
Fluoride			U	ND	mg/kg					09/19/20 13:08
QC1204645763 521515040 MS										
Fluoride	26.9	1.43		12.1	mg/kg		39.6 *	(75%-125%)		09/18/20 13:40
Batch 2045532										
QC1204654598 521515039 DUP										
Fluoride		8.76		8.34	mg/kg	4.94		(0%-109%)	LXA2	09/30/20 03:20
QC1204654596 LCS										
Fluoride	24.8			23.5	mg/kg		94.9	(90%-110%)		09/29/20 14:14
QC1204654595 MB										
Fluoride			U	ND	mg/kg					09/29/20 13:46
QC1204654600 521515039 MS										
Fluoride	28.3	8.76		32.0	mg/kg		82.1	(75%-125%)		09/30/20 09:56
Metals Analysis - ICPMS										
Batch 2041361										
QC1204644993 LCS										
Uranium-235	35.6			37.0	ug/kg		104	(80%-120%)	SKJ	09/29/20 08:00
Uranium-238	4910			5080	ug/kg		104	(80%-120%)		
QC1204644997 LCS										
Uranium-234	53.2			56.9	ug/kg		107	(80%-120%)		09/29/20 15:07

QC Summary

Workorder: **521515**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2041361											
QC1204644992 MB											
Uranium-234				U	ND	ug/kg				SKJ	09/29/20 15:06
Uranium-235				U	ND	ug/kg					09/29/20 07:59
Uranium-238				U	ND	ug/kg					
QC1204644994 521515001 MS											
Uranium-235	37.2	J	9.27		48.4	ug/kg		105	(75%-125%)		09/29/20 08:03
Uranium-238	5130		1010		6430	ug/kg		105	(75%-125%)		
QC1204644998 521515001 MS											
Uranium-234	55.7	U	ND		64.4	ug/kg		116	(75%-125%)		09/29/20 15:10
QC1204644995 521515001 MSD											
Uranium-235	36.0	J	9.27		45.6	ug/kg	5.93	101	(0%-20%)		09/29/20 08:04
Uranium-238	4960		1010		6240	ug/kg	3.08	105	(0%-20%)		
QC1204644999 521515001 MSD											
Uranium-234	57.4	U	ND		66.4	ug/kg	3.08	116	(0%-20%)		09/29/20 15:12
QC1204644996 521515001 SDILT											
Uranium-234		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/29/20 15:13
Uranium-235		J	0.0469	U	ND	ug/L	N/A		(0%-20%)		09/29/20 08:06
Uranium-238			5.13		1.04	ug/L	1.75		(0%-20%)		

QC Summary

Workorder: **521515**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2041711										
QC1204645767 LCS										
Tetrachloroethylene	0.0500			0.0516	mg/kg		103	(68%-129%)	JP1	09/18/20 17:32
**1,2-Dichloroethane-d4	50.0			48.9	ug/L		98	(81%-124%)		
**Bromofluorobenzene	50.0			49.3	ug/L		99	(70%-130%)		
**Toluene-d8	50.0			51.0	ug/L		102	(81%-120%)		
QC1204645769 LCSD										
Tetrachloroethylene	0.0500			0.0568	mg/kg	10	114	(0%-20%)		09/18/20 17:58
**1,2-Dichloroethane-d4	50.0			48.9	ug/L		98	(81%-124%)		
**Bromofluorobenzene	50.0			49.1	ug/L		98	(70%-130%)		
**Toluene-d8	50.0			51.1	ug/L		102	(81%-120%)		
QC1204645766 MB										
Tetrachloroethylene			U	ND	mg/kg					09/18/20 19:15
**1,2-Dichloroethane-d4	50.0			46.1	ug/L		92	(81%-124%)		
**Bromofluorobenzene	50.0			47.6	ug/L		95	(70%-130%)		
**Toluene-d8	50.0			50.7	ug/L		101	(81%-120%)		
Batch 2042981										
QC1204648748 LCS										
Tetrachloroethylene	0.0500			0.0430	mg/kg		86	(68%-129%)	MXL2	09/22/20 09:10
**1,2-Dichloroethane-d4	50.0			46.0	ug/L		92	(81%-124%)		

QC Summary

Workorder: **521515**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2042981										
**Bromofluorobenzene	50.0			50.4	ug/L		101	(70%-130%)	MXL2	09/22/20 09:10
**Toluene-d8	50.0			52.5	ug/L		105	(81%-120%)		
QC1204648749 LCSD										
Tetrachloroethylene	0.0500			0.0436	mg/kg	1	87	(0%-20%)		09/22/20 09:35
**1,2-Dichloroethane-d4	50.0			46.1	ug/L		92	(81%-124%)		
**Bromofluorobenzene	50.0			52.1	ug/L		104	(70%-130%)		
**Toluene-d8	50.0			52.7	ug/L		105	(81%-120%)		
QC1204648747 MB										
Tetrachloroethylene			U	ND	mg/kg					09/22/20 11:47
**1,2-Dichloroethane-d4	50.0			49.0	ug/L		98	(81%-124%)		
**Bromofluorobenzene	50.0			51.7	ug/L		103	(70%-130%)		
**Toluene-d8	50.0			52.9	ug/L		106	(81%-120%)		
Batch 2044368										
QC1204651842 LCS										
Tetrachloroethylene	0.0500			0.0587	mg/kg		117	(68%-129%)	JP1	09/24/20 17:26
**1,2-Dichloroethane-d4	50.0			50.8	ug/L		102	(81%-124%)		
**Bromofluorobenzene	50.0			48.0	ug/L		96	(70%-130%)		
**Toluene-d8	50.0			50.9	ug/L		102	(81%-120%)		

QC Summary

Workorder: **521515**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2044368											
QC1204651840 MB											
Tetrachloroethylene				U	ND	mg/kg				JP1	09/24/20 19:10
**1,2-Dichloroethane-d4	50.0				48.9	ug/L		98	(81%-124%)		
**Bromofluorobenzene	50.0				46.6	ug/L		93	(70%-130%)		
**Toluene-d8	50.0				50.0	ug/L		100	(81%-120%)		
QC1204651843 521888002 PS											
Tetrachloroethylene	50.0	U	ND		24.1	ug/L		48*	(51%-138%)		09/25/20 02:01
**1,2-Dichloroethane-d4	50.0		48.7		52.7	ug/L		105	(81%-124%)		
**Bromofluorobenzene	50.0		45.9		47.2	ug/L		94	(70%-130%)		
**Toluene-d8	50.0		50.0		50.4	ug/L		101	(81%-120%)		
QC1204651844 521888002 PSD											
Tetrachloroethylene	50.0	U	ND		27.2	ug/L	12	54	(0%-20%)		09/25/20 02:27
**1,2-Dichloroethane-d4	50.0		48.7		53.2	ug/L		106	(81%-124%)		
**Bromofluorobenzene	50.0		45.9		47.9	ug/L		96	(70%-130%)		
**Toluene-d8	50.0		50.0		50.8	ug/L		102	(81%-120%)		

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported

QC Summary

Workorder: **521515**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

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
h	Preparation or preservation holding time was exceeded

QC Summary

Workorder: **521515**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

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.

QC Summary

Report Date: September 30, 2020

Westinghouse Electric Company, LLC
PO Drawer R
Columbia, South Carolina

Contact: **Ms. Cynthia Teague**

Workorder: **521515**

Parmname			NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography														
Batch 2041392														
QC1204645105	521515001	DUP												
Fluoride				J	0.724	U	0.590	mg/kg	200	^			LXA2	09/18/20 23:16
QC1204645107	521515020	DUP												
Fluoride				J	0.727	J	0.765	mg/kg	5.02	^		(+/-1.08)		09/18/20 04:14
QC1204645104	LCS													
Fluoride			24.6				23.9	mg/kg			97.2	(90%-110%)		09/17/20 16:04
QC1204645103	MB													
Fluoride						U	0.000	mg/kg						09/17/20 15:37
QC1204645106	521515001	MS												
Fluoride			26.1	J	0.724		6.49	mg/kg			22.1*	(75%-125%)		09/18/20 23:43
QC1204645108	521515020	MS												
Fluoride			26.8	J	0.727		9.47	mg/kg			32.6*	(75%-125%)		09/18/20 04:41
Batch 2041697														
QC1204645756	521515021	DUP												
Fluoride				U	0.000	U	0.000	mg/kg	N/A				JLD1	09/18/20 18:27
QC1204645754	LCS													
Fluoride			25.2				25.4	mg/kg			101	(90%-110%)		09/18/20 17:27
QC1204645753	MB													
Fluoride						U	0.000	mg/kg						09/18/20 16:58
QC1204645758	521515021	MS												
Fluoride			27.2	U	0.000		7.44	mg/kg			27.4*	(75%-125%)		09/18/20 18:57

QC Summary

Workorder: **521515**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2041706										
QC1204645761 521515040 DUP										
Fluoride		1.43		1.37	mg/kg	3.78 ^		(+/-1.09)	JLD1	09/18/20 13:10
QC1204645760 LCS										
Fluoride	25.2			24.6	mg/kg		97.8	(90%-110%)		09/19/20 13:39
QC1204645759 MB										
Fluoride			U	0.000	mg/kg					09/19/20 13:08
QC1204645763 521515040 MS										
Fluoride	26.9	1.43		12.1	mg/kg		39.6*	(75%-125%)		09/18/20 13:40
Batch 2045532										
QC1204654598 521515039 DUP										
Fluoride		8.76		8.34	mg/kg	4.94		(0%-109%)	LXA2	09/30/20 03:20
QC1204654596 LCS										
Fluoride	24.8			23.5	mg/kg		94.9	(90%-110%)		09/29/20 14:14
QC1204654595 MB										
Fluoride			U	0.000	mg/kg					09/29/20 13:46
QC1204654600 521515039 MS										
Fluoride	28.3	8.76		32.0	mg/kg		82.1	(75%-125%)		09/30/20 09:56
Rad Alpha Spec										
Batch 2041554										
QC1204645474 521515001 DUP										
Uranium-233/234		0.552		1.37	pCi/g	84.9		(0% - 100%)	MG1	09/21/20 19:53
Uranium-235/236		0.137	U	0.102	pCi/g	82.5		N/A		
Uranium-238		0.996		0.519	pCi/g	63*		(0%-20%)		

QC Summary

Workorder: **521515**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Alpha Spec										
Batch 2041554										
QC1204645475 LCS										
Uranium-233/234				11.6	pCi/g				MG1	09/21/20 19:53
Uranium-235/236				0.541	pCi/g					
Uranium-238	12.5			13.1	pCi/g		105	(75%-125%)		
QC1204645473 MB										
Uranium-233/234			U	0.0150	pCi/g					09/21/20 19:53
Uranium-235/236			U	0.0416	pCi/g					
Uranium-238			U	-0.0309	pCi/g					
Batch 2041556										
QC1204645482 521515021 DUP										
Uranium-233/234		1.44		1.03	pCi/g	32.8		(0% - 100%)	MP2	09/21/20 15:07
Uranium-235/236	U	0.0439	U	-0.0370	pCi/g	N/A		N/A		
Uranium-238		0.712		0.874	pCi/g	20.5		(0% - 100%)		
QC1204645483 LCS										
Uranium-233/234				11.5	pCi/g					09/21/20 15:07
Uranium-235/236				0.542	pCi/g					
Uranium-238	12.6			11.6	pCi/g		92.4	(75%-125%)		
QC1204645481 MB										
Uranium-233/234			U	-0.0309	pCi/g					09/21/20 15:05
Uranium-235/236			U	0.0430	pCi/g					

QC Summary

Workorder: **521515**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Alpha Spec										
Batch 2041556										
Uranium-238			U	0.0348	pCi/g				MP2	09/21/20 15:05
Batch 2041557										
QC1204645487 521515041 DUP										
Uranium-233/234		1.69		2.32	pCi/g	31.7*		(0%-20%)	MXS2	09/21/20 15:13
Uranium-235/236	U	0.0862	U	0.152	pCi/g	N/A		N/A		
Uranium-238		0.723		1.68	pCi/g	79.9*		(0%-20%)		
QC1204645488 LCS										
Uranium-233/234				10.0	pCi/g					09/21/20 15:13
Uranium-235/236				0.449	pCi/g					
Uranium-238	12.5			11.6	pCi/g		93	(75%-125%)		
QC1204645486 MB										
Uranium-233/234			U	-0.0608	pCi/g					09/21/20 15:13
Uranium-235/236			U	-0.00770	pCi/g					
Uranium-238			U	0.0342	pCi/g					
Rad Liquid Scintillation										
Batch 2041826										
QC1204646001 521515001 DUP										
Technetium-99	U	-0.292	U	-0.363	pCi/g	N/A		N/A	JJ3	09/23/20 09:27
QC1204646002 LCS										
Technetium-99	28.3			26.6	pCi/g		93.8	(75%-125%)		09/23/20 10:38

QC Summary

Workorder: **521515**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation										
Batch 2041826										
QC1204646000 MB										
Technetium-99			U	-0.265	pCi/g				JJ3	09/23/20 08:15
Batch 2041829										
QC1204646012 521515021 DUP										
Technetium-99	U	0.102	U	-0.264	pCi/g	N/A		N/A	JJ3	09/22/20 19:09
QC1204646013 LCS										
Technetium-99	28.6			27.6	pCi/g		96.6	(75%-125%)		09/22/20 19:51
QC1204646011 MB										
Technetium-99			U	0.0171	pCi/g					09/22/20 18:26
Batch 2041831										
QC1204646015 521515041 DUP										
Technetium-99	U	0.140	U	0.237	pCi/g	N/A		N/A	JJ3	09/23/20 02:33
QC1204646016 LCS										
Technetium-99	29.0			28.9	pCi/g		99.6	(75%-125%)		09/23/20 03:15
QC1204646014 MB										
Technetium-99			U	-0.0190	pCi/g					09/23/20 01:50

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.
- 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

QC Summary

Workorder: **521515**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

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 #: 521515

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: 2041711

Preparation Method: SW846 5035
Preparation Procedure: GL-OA-E-039 REV# 13
Preparation Batch: 2041705

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

GEL Sample ID#	Client Sample Identification
521515003	C-19-3
521515008	C-21-3
521515011	C-21-6
521515014	C-24-3
521515019	C-62-3
521515024	C-13-3
1204645766	Method Blank (MB)
1204645767	Laboratory Control Sample (LCS)
1204645769	Laboratory Control Sample Duplicate (LCSD)

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.

Miscellaneous Information

Additional Comments
LCS was processed as soil matrix but analyzed as a water. LCS/LCSD passed SPC soil limits.

Product: **Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer**
Analytical Method: SW846 8260D
Analytical Procedure: GL-OA-E-038 REV# 28
Analytical Batch: 2042981

Preparation Method: SW846 5035
Preparation Procedure: GL-OA-E-039 REV# 13
Preparation Batch: 2042980

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

GEL Sample ID#	Client Sample Identification
521515027	C-36-1
521515032	C-37-6
521515038	C-54-12
1204648747	Method Blank (MB)
1204648748	Laboratory Control Sample (LCS)
1204648749	Laboratory Control Sample Duplicate (LCSD)

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

Continuing Calibration Verification Requirements
All Calibration Verification Standards (CCV) did not meet the acceptance criteria as outlined in Method 8260D for samples and the associated QC . However, the method allows for a designated number of outliers dependent on the requested analyte list. This SDG satisfied the 8260D outlier acceptance criteria. The results are reported.

Quality Control (QC) Information

Blank (MB) Statement
Target analytes were detected in the blank 1204648747 (MB) below the reporting limit.

Product: **Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer**
Analytical Method: SW846 8260D
Analytical Procedure: GL-OA-E-038 REV# 28
Analytical Batch: 2044368

Preparation Method: SW846 5035
Preparation Procedure: GL-OA-E-039 REV# 13
Preparation Batch: 2044367

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

GEL Sample ID#	Client Sample Identification
521515040	S-45-2
521515043	S-46-2
521515046	ERT-2
1204651840	Method Blank (MB)
1204651842	Laboratory Control Sample (LCS)
1204651843	521888002(NonSDG) Post Spike (PS)
1204651844	521888002(NonSDG) Post Spike Duplicate (PSD)

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

Continuing Calibration Verification Requirements
All Calibration Verification Standards (CCV) did not meet the acceptance criteria as outlined in Method 8260D for samples and the associated QC . However, the method allows for a designated number of outliers dependent on the requested analyte list. This SDG satisfied the 8260D outlier acceptance criteria. The results are reported.

Quality Control (QC) Information

Matrix Spike/Matrix Spike Duplicate Recovery Statement
The spike and/or spike duplicate (See Below) recoveries were not all within the acceptance limits. The recoveries were similar. It is believed possible matrix interference has been demonstrated.

Sample	Analyte	Value
1204651843 (Non SDG 521888002PS)	Tetrachloroethylene	48* (51%-138%)

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3050B/6020B
Analytical Procedure: GL-MA-E-014 REV# 34
Analytical Batch: 2041361

Preparation Method: SW846 3050B
Preparation Procedure: GL-MA-E-009 REV# 29
Preparation Batch: 2041360

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

GEL Sample ID#	Client Sample Identification
521515001	C-19-1
521515006	C-21-1
521515011	C-21-6
521515016	C-24-5
1204644992	Method Blank (MB)**ICP-MS**
1204644993	Laboratory Control Sample (LCS)
1204644997	Laboratory Control Sample (LCS)
1204644996	521515001(C-19-1L) Serial Dilution (SD)
1204644994	521515001(C-19-1S) Matrix Spike (MS)
1204644998	521515001(C-19-1S) Matrix Spike (MS)
1204644995	521515001(C-19-1SD) Matrix Spike Duplicate (MSD)
1204644999	521515001(C-19-1SD) Matrix Spike Duplicate (MSD)

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.

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	521515			
	001	006	011	016
Uranium-234	2X	2X	2X	2X
Uranium-235	2X	2X	2X	2X
Uranium-238	2X	2X	2X	2X

General Chemistry

Product: **Ion Chromatography**
Analytical Method: SW846 9056A
Analytical Procedure: GL-GC-E-086 REV# 28
Analytical Batches: 2041392 and 2041391

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

GEL Sample ID#	Client Sample Identification
521515001	C-19-1
521515002	C-19-2
521515003	C-19-3
521515004	C-19-4
521515005	C-19-5
521515006	C-21-1
521515007	C-21-2
521515008	C-21-3
521515009	C-21-4

521515010	C-21-5
521515011	C-21-6
521515012	C-24-1
521515013	C-24-2
521515014	C-24-3
521515015	C-24-4
521515016	C-24-5
521515017	C-62-1
521515018	C-62-2
521515019	C-62-3
521515020	C-62-4
1204645103	Method Blank (MB)
1204645104	Laboratory Control Sample (LCS)
1204645105	521515001(C-19-1) Sample Duplicate (DUP)
1204645106	521515001(C-19-1) Matrix Spike (MS)
1204645107	521515020(C-62-4) Sample Duplicate (DUP)
1204645108	521515020(C-62-4) 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	1204645106 (C-19-1MS)	22.1* (75%-125%)
	1204645108 (C-62-4MS)	32.6* (75%-125%)

Technical Information

Sample Dilutions
The following samples 1204645105 (C-19-1DUP), 1204645106 (C-19-1MS), 521515001 (C-19-1) and 521515004 (C-19-4) in this sample group were diluted due to matrix interference. 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.

Analyte	521515	
	001	004
Fluoride	2X	2X

Miscellaneous Information

Manual Integrations
Samples 1204645105 (C-19-1DUP) and 521515001 (C-19-1) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Ion Chromatography**
Analytical Method: SW846 9056A
Analytical Procedure: GL-GC-E-086 REV# 28
Analytical Batches: 2041697 and 2041696

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

GEL Sample ID#	Client Sample Identification
521515021	C-62-5
521515022	C-13-1
521515023	C-13-2
521515024	C-13-3
521515025	C-13-4
521515026	C-13-5
521515027	C-36-1
521515028	C-36-2
521515029	C-36-3
521515030	C-36-4
521515031	C-37-5
521515032	C-37-6
521515033	C-37-7
521515034	C-37-8
521515035	C-54-9
521515036	C-54-10
521515037	C-54-11
521515038	C-54-12
1204645753	Method Blank (MB)
1204645754	Laboratory Control Sample (LCS)
1204645756	521515021(C-62-5) Sample Duplicate (DUP)
1204645758	521515021(C-62-5) 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	1204645758 (C-62-5MS)	27.4* (75%-125%)

Miscellaneous Information

Manual Integrations
Samples 1204645756 (C-62-5DUP) and 521515021 (C-62-5) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Ion Chromatography**
Analytical Method: SW846 9056A
Analytical Procedure: GL-GC-E-086 REV# 28
Analytical Batches: 2041706 and 2041704

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

GEL Sample ID#	Client Sample Identification
521515040	S-45-2
521515041	S-45-3
521515042	S-46-1
521515043	S-46-2
521515044	S-46-3
521515045	ERT-1
521515046	ERT-2
521515047	ERT-3
1204645759	Method Blank (MB)
1204645760	Laboratory Control Sample (LCS)
1204645761	521515040(S-45-2) Sample Duplicate (DUP)
1204645763	521515040(S-45-2) 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	1204645763 (S-45-2MS)	39.6* (75%-125%)

Product: **Ion Chromatography**
Analytical Method: SW846 9056A
Analytical Procedure: GL-GC-E-086 REV# 28

Analytical Batches: 2045532 and 2045531

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

GEL Sample ID#	Client Sample Identification
521515039	S-45-1
1204654595	Method Blank (MB)
1204654596	Laboratory Control Sample (LCS)
1204654598	521515039(S-45-1) Sample Duplicate (DUP)
1204654600	521515039(S-45-1) 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.

Technical Information

Sample Re-analysis
Sample1204654600 (S-45-1MS) was re-analyzed to verify the result.

Radiochemistry

Product: **Alphaspec U, Soil/Veg/Solid**
Analytical Method: DOE EML HASL-300, U-02-RC Modified
Analytical Procedure: GL-RAD-A-011 REV# 28
Analytical Batch: 2041554

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2041310

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

GEL Sample ID#	Client Sample Identification
521515001	C-19-1
521515002	C-19-2
521515003	C-19-3
521515004	C-19-4
521515005	C-19-5
521515006	C-21-1
521515007	C-21-2
521515008	C-21-3
521515009	C-21-4
521515010	C-21-5
521515011	C-21-6
521515012	C-24-1
521515013	C-24-2
521515014	C-24-3
521515015	C-24-4

521515016	C-24-5
521515017	C-62-1
521515018	C-62-2
521515019	C-62-3
521515020	C-62-4
1204645473	Method Blank (MB)
1204645474	521515001(C-19-1) Sample Duplicate (DUP)
1204645475	Laboratory Control Sample (LCS)

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

Duplication Criteria between QC Sample and Duplicate Sample
The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1204645474 (C-19-1DUP)	Uranium-238	RPD 63* (0.00%-20.00%) RER 1.78 (0-3)

Miscellaneous Information

Additional Comments
The tracer peak centroid for sample 521515019 (C-62-3) is greater than 50 keV from the expected library energy value for the tracer; however, the tracer yield requirement was met and the tracer peak is within the tracer region of interest.

Product: **Alphaspec U, Soil/Veg/Solid**
Analytical Method: DOE EML HASL-300, U-02-RC Modified
Analytical Procedure: GL-RAD-A-011 REV# 28
Analytical Batch: 2041556

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2041311

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

GEL Sample ID#	Client Sample Identification
521515021	C-62-5
521515022	C-13-1
521515023	C-13-2

521515024	C-13-3
521515025	C-13-4
521515026	C-13-5
521515027	C-36-1
521515028	C-36-2
521515029	C-36-3
521515030	C-36-4
521515031	C-37-5
521515032	C-37-6
521515033	C-37-7
521515034	C-37-8
521515035	C-54-9
521515036	C-54-10
521515037	C-54-11
521515038	C-54-12
521515039	S-45-1
521515040	S-45-2
1204645481	Method Blank (MB)
1204645482	521515021(C-62-5) Sample Duplicate (DUP)
1204645483	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: **Alphaspec U, Soil/Veg/Solid**
Analytical Method: DOE EML HASL-300, U-02-RC Modified
Analytical Procedure: GL-RAD-A-011 REV# 28
Analytical Batch: 2041557

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2041312

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

GEL Sample ID#	Client Sample Identification
521515041	S-45-3
521515042	S-46-1
521515043	S-46-2
521515044	S-46-3
521515045	ERT-1
521515046	ERT-2
521515047	ERT-3
1204645486	Method Blank (MB)
1204645487	521515041(S-45-3) Sample Duplicate (DUP)

1204645488 Laboratory Control Sample (LCS)

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

Duplication Criteria between QC Sample and Duplicate Sample
The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1204645487 (S-45-3DUP)	Uranium-233/234	RPD 31.7* (0.00%-20.00%) RER 1.51 (0-3)
	Uranium-238	RPD 79.9* (0.00%-20.00%) RER 2.99 (0-3)

Product: **Dry Weight**
Preparation Method: ASTM D 2216 (Modified)
Preparation Procedure: GL-OA-E-020 REV# 13
Preparation Batch: 2041310

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2041310

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

GEL Sample ID#	Client Sample Identification
521515001	C-19-1
521515002	C-19-2
521515003	C-19-3
521515004	C-19-4
521515005	C-19-5
521515006	C-21-1
521515007	C-21-2
521515008	C-21-3
521515009	C-21-4
521515010	C-21-5
521515011	C-21-6
521515012	C-24-1
521515013	C-24-2
521515014	C-24-3
521515015	C-24-4

521515016	C-24-5
521515017	C-62-1
521515018	C-62-2
521515019	C-62-3
521515020	C-62-4
1204644874	521515001(C-19-1) 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: **Dry Weight**
Preparation Method: ASTM D 2216 (Modified)
Preparation Procedure: GL-OA-E-020 REV# 13
Preparation Batch: 2041311

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2041311

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

GEL Sample ID#	Client Sample Identification
521515021	C-62-5
521515022	C-13-1
521515023	C-13-2
521515024	C-13-3
521515025	C-13-4
521515026	C-13-5
521515027	C-36-1
521515028	C-36-2
521515029	C-36-3
521515030	C-36-4
521515031	C-37-5
521515032	C-37-6
521515033	C-37-7
521515034	C-37-8
521515035	C-54-9
521515036	C-54-10
521515037	C-54-11
521515038	C-54-12
521515039	S-45-1
521515040	S-45-2
1204644875	521515021(C-62-5) 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: **Dry Weight**
Preparation Method: ASTM D 2216 (Modified)
Preparation Procedure: GL-OA-E-020 REV# 13
Preparation Batch: 2041312

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2041312

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

GEL Sample ID#	Client Sample Identification
521515041	S-45-3
521515042	S-46-1
521515043	S-46-2
521515044	S-46-3
521515045	ERT-1
521515046	ERT-2
521515047	ERT-3
1204644876	521515041(S-45-3) 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: 2041826

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

GEL Sample ID#	Client Sample Identification
521515001	C-19-1
521515002	C-19-2

521515003	C-19-3
521515004	C-19-4
521515005	C-19-5
521515006	C-21-1
521515007	C-21-2
521515008	C-21-3
521515009	C-21-4
521515010	C-21-5
521515011	C-21-6
521515012	C-24-1
521515013	C-24-2
521515014	C-24-3
521515015	C-24-4
521515016	C-24-5
521515017	C-62-1
521515018	C-62-2
521515019	C-62-3
521515020	C-62-4
1204646000	Method Blank (MB)
1204646001	521515001(C-19-1) Sample Duplicate (DUP)
1204646002	Laboratory Control Sample (LCS)

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

Technical Information

Recounts
Sample 521515007 (C-21-2) was recounted due to results more negative than the three sigma TPU. The second count is reported.

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: 2041829

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

GEL Sample ID#	Client Sample Identification
521515021	C-62-5
521515022	C-13-1
521515023	C-13-2
521515024	C-13-3
521515025	C-13-4
521515026	C-13-5
521515027	C-36-1

521515028	C-36-2
521515029	C-36-3
521515030	C-36-4
521515031	C-37-5
521515032	C-37-6
521515033	C-37-7
521515034	C-37-8
521515035	C-54-9
521515036	C-54-10
521515037	C-54-11
521515038	C-54-12
521515039	S-45-1
521515040	S-45-2
1204646011	Method Blank (MB)
1204646012	521515021(C-62-5) Sample Duplicate (DUP)
1204646013	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.

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: 2041831

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

GEL Sample ID#	Client Sample Identification
521515041	S-45-3
521515042	S-46-1
521515043	S-46-2
521515044	S-46-3
521515045	ERT-1
521515046	ERT-2
521515047	ERT-3
1204646014	Method Blank (MB)
1204646015	521515041(S-45-3) Sample Duplicate (DUP)
1204646016	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.

Page: 1 of 5
Project # Sealand Soil Sampling
GEL Quote #: WNUC009
COC Number (1):
PO # 4500778461, Line 1

521515

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Westinghouse
Phone # 803.647.3171
Project/Site Name:
Fax # 803.695.3964
Address: 5801 Bluff Road, Hopkins, SC 29061
Collected By: Randy Crews RCrews
Send Results To: logsdocj@westinghouse.com

521515

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Isotopic Uranium by Alpha Spec	Isotopic Uranium by ICPMS	Tc-99	Fluoride	VOCs	<-- Preservative Type (6)	Comments
C-19-1	9/10/2020	0943	G		SO			1	X	X	X	X			Note: extra sample is required for sample specific QC
C-19-2	9/10/2020	0946	G		SO			1	X		X	X			
C-19-3	9/10/2020	0951	G		SO			2	X		X	X	X		
C-19-4	9/10/2020	0958	G		SO			1	X		X	X			
C-19-5	9/10/2020	1002	G		SO			1	X		X	X			
C-21-1	9/10/2020	1013	G		SO			1	X	X	X	X			
C-21-2	9/10/2020	1016	G		SO			1	X		X	X			
C-21-3	9/10/2020	1018	G		SO			2	X		X	X	X		
C-21-4	9/10/2020	1028	G		SO			1	X		X	X			
C-21-5	9/10/2020	1031	G		SO			1	X		X	X			

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Randy Crews RCrews	09/16/2020	0945	1 Secure Location	09/16/2020	0945
2 Secure Location	09/16/2020	1100	2	9/16/20	1100
3	9/16/20	1555	3 Angela Dacus	9/16/20	1555

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

TAT Requested: Normal: ____ Rush: X Specify: 10 days (2 weeks)

Fax Results: [ ] Yes [x] 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:*** 2 °C

Sample Collection Time Zone: [ ] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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**=Fecal, **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**

RCRA Metals
As = Arsenic, Hg= Mercury
Ba = Barium, Se= Selenium
Cd = Cadmium, Ag= Silver
Cr = Chromium, MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
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 concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 2 of 5
Project # Sealand Soil Sampling
GEL Quote #: WNUC009
COC Number (1):
PO # 4500778461, Line 1

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager:*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Westinghouse Phone # 803.647.3171
Project/Site Name: Fax # 803.695.3964
Address: 5801 Bluff Road, Hopkins, SC 29061
Collected By: Randy Crews RCrews Send Results To: logsdocj@westinghouse.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Isotopic Uranium by Alpha Spec	Isotopic Uranium by ICPMS	Tc-99	Fluoride	VOCs	<-- Preservative Type (6)	Comments
C-21-6	9/10/2020	1035	G		SO			1	X	X	X	X	X		Note: extra sample is required for sample specific QC
C-24-1	9/10/2020	1102	G		SO			1	X		X	X			
C-24-2	9/10/2020	1105	G		SO			1	X		X	X			
C-24-3	9/10/2020	1108	G		SO			2	X		X	X	X		
C-24-4	9/10/2020	1113	G		SO			1	X		X	X			
C-24-5	9/10/2020	1117	G		SO			1	X	X	X	X			
C-62-1	9/10/2020	1124	G		SO			1	X		X	X			
C-62-2	9/10/2020	1127	G		SO			1	X		X	X			
C-62-3	9/10/2020	1131	G		SO			2	X		X	X	X		
C-62-4	9/10/2020	1136	G		SO			1	X		X	X			

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Randy Crews RCrews	09/16/2020	0945	1 Secure Location	09/16/2020	0945
2 Secure Location	09/16/2020	1400	2	9.16.20	1400
3	9.16.20	1555	3 Alyssa Dutton	9/16/20	1555

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

TAT Requested: Normal: ____ Rush: X Specify: 10 days (2 weeks)

Fax Results: [ ] Yes [x] 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:*** 2 °C

Sample Collection Time Zone : [ ] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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

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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**).

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**

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
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 concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 3 of 5
Project # Sealand Soil Sampling
GEL Quote #: WNUC009
TOC Number [1]:
PO # 4500778461, Line 1

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

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GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Westinghouse Phone # 803.647.3171
Project/Site Name: Fax # 803.695.3964
Address: 5801 Bluff Road, Hopkins, SC 29061
Collected By: Randy Crews RCrews Send Results To: logsdocj@westinghouse.com

SDG: 521515

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) 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-62-5	9/10/2020	1140	G		SO			1	X		X	X							
C-13-1	9/10/2020	1206	G		SO			1	X		X	X							
C-13-2	9/10/2020	1211	G		SO			1	X		X	X							
C-13-3	9/10/2020	1215	G		SO			2	X		X	X	X						
C-13-4	9/10/2020	1221	G		SO			1	X		X	X							
C-13-5	9/10/2020	1225	G		SO			1	X		X	X							
C-36-1	9/12/2020	0658	G		SO			2	X		X	X	X						
C-36-2	9/12/2020	0706	G		SO			1	X		X	X							
C-36-3	9/12/2020	0711	G		SO			1	X		X	X							
C-36-4	9/12/2020	0715	G		SO			1	X		X	X							

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Randy Crews RCrews	09/16/2020	0945	1 Secure Location	09/16/2020	0945
2 Secure Location	09/16/2020	1100	2 [illegible]	9.16.20	1100
3 [illegible]	9.16.20	1555	3 Thomas Dahm	9/16/20	1555

TAT Requested: Normal: ____ Rush: X Specify: 10 days (2 weeks)

Fax Results: [ ] Yes [x] 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:*** 2 °C

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

Sample Collection Time Zone: [ ] Eastern [ ] Pacific [ ] Central [ ] 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**).

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

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As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
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Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
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TSCA Regulated
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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 concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page 36 of 139 SDG: 521515

Page: 4 of 5
Project # Sealand Soil Sampling
GEL Quote #: WNUC009
COC Number (1):
PO # 4500778461, Line 1

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

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GEL Laboratories, LLC
2040 Savage Road
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Phone: (843) 556-8171
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Client Name: Westinghouse Phone # 803.647.3171
Project/Site Name: Fax # 803.695.3964
Address: 5801 Bluff Road, Hopkins, SC 29061
Collected By: Randy Crews RCrews Send Results To: logsdocj@westinghouse.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Isotopic Uranium by Alpha Spec	Isotopic Uranium by ICPMS	Tc-99	Fluoride	VOCs	<-- Preservative Type (6)	Comments
C-37-5	9/12/2020	0805	G		SO			1	X		X	X			Note: extra sample is required for sample specific QC
C-37-6	9/12/2020	0810	G		SO			2	X		X	X	X		
C-37-7	9/12/2020	0818	G		SO			1	X		X	X			
C-37-8	9/12/2020	0824	G		SO			1	X		X	X			
C-54-9	9/12/2020	0832	G		SO			1	X		X	X			
C-54-10	9/12/2020	0839	G		SO			1	X		X	X			
C-54-11	9/12/2020	0844	G		SO			1	X		X	X			
C-54-12	9/12/2020	0849	G		SO			2	X		X	X	X		
S-45-1	9/15/2020	1215	G		SO			1	X		X	X			
S-45-2	9/15/2020	1222	G		SO			2	X		X	X	X		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Randy Crews RCrews	09/16/2020	0945	1 Secure Location	09/16/2020	0945
2 Secure Location	09/16/2020	1400	2	9-16-20	1400
3	9-16-20	1555	3	9/16/20	1555

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

TAT Requested: Normal: ____ Rush: X Specify: 10 days (2 weeks)

Fax Results: [ ] Yes [x] 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:*** 2 °C

Sample Collection Time Zone: [ ] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

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As = Arsenic **Hg**= Mercury
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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 concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 5 of 5
Project # Sealand Soil Sampling
GEL Quote #: WNUC009
COC Number (1):
PO # 4500778461, Line 1

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

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Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Isotopic Uranium by Alpha Spec	Isotopic Uranium by ICPMS	Tc-99	Fluoride	VOCs						<-- Preservative Type (6)
S-45-3	9/15/2020	1261	G		SO			1	X		X	X							
S-46-1	9/15/2020	1151	G		SO			1	X		X	X							
S-46-2	9/15/2020	1159	G		SO			2	X		X	X	X						
S-46-3	9/15/2020	1208	G		SO			1	X		X	X							
ERT-1	9/15/2020	1128	G		SO			1	X		X	X							
ERT-2	9/15/2020	1132	G		SO			2	X		X	X	X						
ERT-3	9/15/2020	1137	G		SO			1	X		X	X							

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Randy Crews RCrews	09/16/2020	0945	1 Secure Location	09/16/2020	0945
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3	9-16-20	1555	4 Date/Time	9/16/20	1555

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

TAT Requested: Normal: ____ Rush: X Specify: 10 days (2 weeks)

Fax Results: [ ] Yes [x] 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:*** 2 °C

Sample Collection Time Zone : [ ] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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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 concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

GEL Laboratories LLC

2 SAMPLE RECEIPT & REVIEW FORM 521515

Client: UNUC

SDG/AR/COC/Work Order:

Received By: Tye

Date Received: 9/10/20

Carrier and Tracking Number

Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier 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?		✓	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?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	✓		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr. Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	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?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP: 2°C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR3-19 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?	✓			If Yes, are Encore or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			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?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials SH Date 9/17/20 Page 1 of 1

List of current GEL Certifications as of 30 September 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

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
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October 07, 2020

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

Re: ENV-CONSENTA-4500778461
Work Order: 522156

Dear Ms. Teague:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 23, 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

Lindsay Fabra
Project Manager

Purchase Order: 4500778461, Line 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: 522156 GEL Work Order: 522156

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

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
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F 843.766.1178

Analytical Detections Summary

SDG/Report#	522156	**Client**	Westinghouse Electric Co, LLC
Project ID	ENV-CONSENTA-4500778461		

GEL ID	Client Sample ID	Method	CAS	Analyte	Result	Q
522156001	C-9-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.76 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	2.08 pCi/g	
		SW846 3050B/6020B	15117-96-1	Uranium-235	28.4 ug/kg	
			7440-61-1	Uranium-238	3330 ug/kg	
		SW846 9056A	16984-48-8	Fluoride	10.4 mg/kg	
522156002	C-9-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.76 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.74 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	11.9 mg/kg	
522156003	C-9-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.89 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.87 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	8.55 mg/kg	
522156004	C-9-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.43 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.57 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	11.4 mg/kg	
522156005	C-9-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.17 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.59 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	5.32 mg/kg	
522156006	S-5-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.61 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	2.11 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	6.58 mg/kg	
522156007	S-5-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.43 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.51 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	2.41 mg/kg	
522156008	S-5-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.14 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.6 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	5.43 mg/kg	

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

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

Certificate of Analysis

Report Date: October 7, 2020

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

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

Client Sample ID: C-9-1
Sample ID: 522156001
Matrix: Soil
Collect Date: 22-SEP-20 12:23
Receive Date: 23-SEP-20
Collector: Client
Moisture: 9.66%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		10.4	0.376	1.11	mg/kg	10.0	1	JLD1	09/24/20	1312	2043786	1
Metals Analysis-ICP-MS												
SW846 3050B/6020B Isotopic Uranium-234/235/238 "Dry Weight Corrected"												
Uranium-234	U	ND	2.06	10.3	ug/kg	93.1	2	PRB	10/07/20	0214	2043752	2
Uranium-235		28.4	2.06	14.4	ug/kg	93.1	2	PRB	10/07/20	0833	2043752	3
Uranium-238		3330	13.6	41.2	ug/kg	93.1	2					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	SM1	09/24/20	0915	2043751
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	09/23/20	2104	2043785

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
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: October 7, 2020

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

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

Client Sample ID: C-9-2
Sample ID: 522156002
Matrix: Soil
Collect Date: 22-SEP-20 12:34
Receive Date: 23-SEP-20
Collector: Client
Moisture: 9.18%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		11.9	0.368	1.08	mg/kg	9.83	1	JLD1	09/24/20	1445	2043786	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	09/23/20	2104	2043785

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: October 7, 2020

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

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

Client Sample ID: C-9-3
Sample ID: 522156003
Matrix: Soil
Collect Date: 22-SEP-20 12:46
Receive Date: 23-SEP-20
Collector: Client
Moisture: 8.68%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		8.55	0.376	1.11	mg/kg	10.1	1	JLD1	09/24/20	1719	2043786	1
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000268	0.000805	mg/kg	0.735	1	JEB	10/02/20	1619	2047084	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JEB	10/02/20	1201	2047083
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	09/23/20	2104	2043785

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	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0397 mg/kg	0.0500	99	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0394 mg/kg	0.0500	98	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0403 mg/kg	0.0500	100	(81%-120%)

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: October 7, 2020

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

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

Client Sample ID: C-9-4
Sample ID: 522156004
Matrix: Soil
Collect Date: 22-SEP-20 12:57
Receive Date: 23-SEP-20
Collector: Client
Moisture: 11.5%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		11.4	0.383	1.13	mg/kg	9.98	1	JLD1	09/24/20	1750	2043786	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	09/23/20	2104	2043785

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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: October 7, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-9-5	Project:	WNUC00901
Sample ID:	522156005	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	22-SEP-20 13:05		
Receive Date:	23-SEP-20		
Collector:	Client		
Moisture:	10.8%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		5.32	0.384	1.13	mg/kg	10.1	1	JLD1	09/24/20	1821	2043786	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	09/23/20	2104	2043785

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: October 7, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	S-5-1	Project:	WNUC00901
Sample ID:	522156006	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	22-SEP-20 13:19		
Receive Date:	23-SEP-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		6.58	0.391	1.15	mg/kg	10.1	1	JLD1	09/24/20	1851	2043786	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	09/23/20	2104	2043785

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: October 7, 2020

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

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

Client Sample ID: S-5-2
Sample ID: 522156007
Matrix: Soil
Collect Date: 22-SEP-20 13:26
Receive Date: 23-SEP-20
Collector: Client
Moisture: 14.4%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		2.41	0.393	1.16	mg/kg	9.90	1	JLD1	09/24/20	1922	2043786	1
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000309	0.000928	mg/kg	0.794	1	JEB	10/02/20	1642	2047084	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JEB	10/02/20	1202	2047083
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	09/23/20	2104	2043785

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	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0446 mg/kg	0.0500	96	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0470 mg/kg	0.0500	101	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0478 mg/kg	0.0500	103	(81%-120%)

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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Report Date: October 7, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	S-5-3	Project:	WNUC00901
Sample ID:	522156008	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	22-SEP-20 13:39		
Receive Date:	23-SEP-20		
Collector:	Client		
Moisture:	10.9%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		5.43	0.382	1.12	mg/kg	10.0	1	JLD1	09/24/20	1953	2043786	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	09/23/20	2104	2043785

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: October 7, 2020

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

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

Client Sample ID: C-9-1
Sample ID: 522156001
Matrix: Soil
Collect Date: 22-SEP-20 12:23
Receive Date: 23-SEP-20
Collector: Client
Moisture: 9.66%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		2.08	+/-0.490	0.287	0.500	pCi/g			MG1	09/29/20	1321	2044025	1
Uranium-235/236	U	0.0783	+/-0.138	0.210	0.500	pCi/g							
Uranium-238		1.76	+/-0.444	0.215	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.158	+/-0.485	0.832	1.00	pCi/g			JJ3	10/04/20	0650	2044051	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	09/24/20	0835	2043658

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/Solid "Dry Weight Corrected"			92.1	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			98	(15%-125%)

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

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: October 7, 2020

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

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

Client Sample ID: C-9-2
Sample ID: 522156002
Matrix: Soil
Collect Date: 22-SEP-20 12:34
Receive Date: 23-SEP-20
Collector: Client
Moisture: 9.18%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.74	+/-0.486	0.294	0.500	pCi/g			MG1	09/29/20	1321	2044025	1
Uranium-235/236	U	0.142	+/-0.180	0.224	0.500	pCi/g							
Uranium-238		1.76	+/-0.481	0.229	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0744	+/-0.465	0.796	1.00	pCi/g			JJ3	10/04/20	0817	2044051	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	09/24/20	0835	2043658

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/Solid "Dry Weight Corrected"			98.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			97.6	(15%-125%)

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

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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Report Date: October 7, 2020

Company : Westinghouse Electric Company, LLC
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Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-9-3
Sample ID: 522156003
Matrix: Soil
Collect Date: 22-SEP-20 12:46
Receive Date: 23-SEP-20
Collector: Client
Moisture: 8.68%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.87	+/-0.522	0.330	0.500	pCi/g			MG1	09/29/20	1321	2044025	1
Uranium-235/236	U	-0.0929	+/-0.106	0.360	0.500	pCi/g							
Uranium-238		1.89	+/-0.517	0.270	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.166	+/-0.494	0.848	1.00	pCi/g			JJ3	10/04/20	0943	2044051	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	09/24/20	0835	2043658

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/Solid "Dry Weight Corrected"			90.5	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			97.8	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-9-4
Sample ID: 522156004
Matrix: Soil
Collect Date: 22-SEP-20 12:57
Receive Date: 23-SEP-20
Collector: Client
Moisture: 11.5%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.57	+/-0.488	0.356	0.500	pCi/g			MG1	09/29/20	1321	2044025	1
Uranium-235/236	U	0.131	+/-0.195	0.284	0.500	pCi/g							
Uranium-238		1.43	+/-0.450	0.230	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.107	+/-0.500	0.851	1.00	pCi/g			JJ3	10/04/20	1109	2044051	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	09/24/20	0835	2043658

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/Solid "Dry Weight Corrected"			88.5	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			97.7	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-9-5	Project:	WNUC00901
Sample ID:	522156005	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	22-SEP-20 13:05		
Receive Date:	23-SEP-20		
Collector:	Client		
Moisture:	10.8%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.59	+/-0.430	0.274	0.500	pCi/g			MG1	09/29/20	1321	2044025	1
Uranium-235/236	U	0.129	+/-0.152	0.164	0.500	pCi/g							
Uranium-238		1.17	+/-0.366	0.224	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.419	+/-0.455	0.789	1.00	pCi/g			JJ3	10/04/20	1235	2044051	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	09/24/20	0835	2043658

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/Solid "Dry Weight Corrected"			93.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			97.1	(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: October 7, 2020

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

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

Client Sample ID: S-5-1
Sample ID: 522156006
Matrix: Soil
Collect Date: 22-SEP-20 13:19
Receive Date: 23-SEP-20
Collector: Client
Moisture: 12.3%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		2.11	+/-0.585	0.358	0.500	pCi/g			MG1	09/29/20	1321	2044025	1
Uranium-235/236	U	0.206	+/-0.236	0.295	0.500	pCi/g							
Uranium-238		1.61	+/-0.517	0.349	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0483	+/-0.495	0.847	1.00	pCi/g			JJ3	10/04/20	1401	2044051	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	09/24/20	0835	2043658

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/Solid "Dry Weight Corrected"			87	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			90.5	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: S-5-2
Sample ID: 522156007
Matrix: Soil
Collect Date: 22-SEP-20 13:26
Receive Date: 23-SEP-20
Collector: Client
Moisture: 14.4%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.51	+/-0.494	0.310	0.500	pCi/g			MG1	09/29/20	1321	2044025	1
Uranium-235/236	U	-0.0230	+/-0.102	0.265	0.500	pCi/g							
Uranium-238		1.43	+/-0.484	0.325	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.397	+/-0.490	0.824	1.00	pCi/g			JJ3	10/05/20	1721	2044051	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	09/24/20	0835	2043658

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/Solid "Dry Weight Corrected"			87.1	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.6	(15%-125%)

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

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: October 7, 2020

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

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

Client Sample ID: S-5-3
Sample ID: 522156008
Matrix: Soil
Collect Date: 22-SEP-20 13:39
Receive Date: 23-SEP-20
Collector: Client
Moisture: 10.9%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.60	+/-0.460	0.292	0.500	pCi/g			MG1	09/29/20	1321	2044025	1
Uranium-235/236	U	0.0591	+/-0.136	0.215	0.500	pCi/g							
Uranium-238		1.14	+/-0.388	0.244	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0224	+/-0.513	0.876	1.00	pCi/g			JJ3	10/04/20	1653	2044051	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	09/24/20	0835	2043658

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/Solid "Dry Weight Corrected"			85.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94.5	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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

QC Summary

Report Date: October 7, 2020

Westinghouse Electric Company, LLC
PO Drawer R
Columbia, South Carolina

Contact: **Ms. Cynthia Teague**

Workorder: **522156**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2043786										
QC1204650583 522156001 DUP										
Fluoride		10.4		10.4	mg/kg	0.0712		(0%-109%)	JLD1	09/24/20 13:43
QC1204650584 522156002 DUP										
Fluoride		11.9		8.96	mg/kg	28.5		(0%-109%)		09/24/20 15:16
QC1204650582 LCS										
Fluoride	25.2			26.1	mg/kg		103	(90%-110%)		09/24/20 11:40
QC1204650581 MB										
Fluoride			U	ND	mg/kg					09/24/20 11:09
QC1204650585 522156001 MS										
Fluoride	27.5	10.4		31.0	mg/kg		75.2	(75%-125%)		09/24/20 14:14
QC1204650586 522156002 MS										
Fluoride	27.1	11.9		31.7	mg/kg		73.2*	(75%-125%)		09/24/20 15:46
Metals Analysis - ICPMS										
Batch 2043752										
QC1204650527 LCS										
Uranium-235	35.7			38.5	ug/kg		108	(80%-120%)	PRB	10/07/20 08:31
Uranium-238	4920			5330	ug/kg		108	(80%-120%)		
QC1204650534 LCS										
Uranium-234	54.9			59.9	ug/kg		109	(80%-120%)		10/07/20 02:13
QC1204650526 MB										
Uranium-234			U	ND	ug/kg					10/07/20 02:11

QC Summary

Workorder: 522156

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2043752											
Uranium-235				U	ND	ug/kg				PRB	10/07/20 08:30
Uranium-238				U	ND	ug/kg					
QC1204650528 522156001 MS											
Uranium-235	37.0		28.4		66.5	ug/kg		103	(75%-125%)		10/07/20 08:35
Uranium-238	5100		3330		8510	ug/kg		102	(75%-125%)		
QC1204650535 522156001 MS											
Uranium-234	59.5	U	ND		63.3	ug/kg		106	(75%-125%)		10/07/20 02:16
QC1204650529 522156001 MSD											
Uranium-235	36.6		28.4		65.6	ug/kg	1.26	102	(0%-20%)		10/07/20 08:37
Uranium-238	5050		3330		8610	ug/kg	1.11	104	(0%-20%)		
QC1204650536 522156001 MSD											
Uranium-234	54.6	U	ND		59.5	ug/kg	6.24	109	(0%-20%)		10/07/20 02:17
QC1204650530 522156001 SDILT											
Uranium-234		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/07/20 02:19
Uranium-235			0.138	J	0.0253	ug/L	8.33		(0%-20%)		10/07/20 08:40
Uranium-238			16.2		3.08	ug/L	4.73		(0%-20%)		
Volatile-GC/MS											
Batch 2047084											
QC1204658067 LCS											
Tetrachloroethylene	0.0500				0.0502	mg/kg		100	(68%-129%)	JEB	10/02/20 10:20
**1,2-Dichloroethane-d4	50.0				52.1	ug/L		104	(81%-124%)		

QC Summary

Workorder: 522156

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS												
Batch 2047084												
**Bromofluorobenzene	50.0				51.0	ug/L		102	(70%-130%)	JEB	10/02/20	10:20
**Toluene-d8	50.0				49.8	ug/L		100	(81%-120%)			
QC1204658066 MB												
Tetrachloroethylene				U	ND	mg/kg					10/02/20	11:53
**1,2-Dichloroethane-d4	50.0				48.0	ug/L		96	(81%-124%)			
**Bromofluorobenzene	50.0				48.7	ug/L		97	(70%-130%)			
**Toluene-d8	50.0				51.0	ug/L		102	(81%-120%)			
QC1204658068 522157008 PS												
Tetrachloroethylene	50.0	U	ND		35.7	ug/L		71	(51%-138%)		10/02/20	19:24
**1,2-Dichloroethane-d4	50.0		49.8		50.4	ug/L		101	(81%-124%)			
**Bromofluorobenzene	50.0		48.3		50.4	ug/L		101	(70%-130%)			
**Toluene-d8	50.0		49.9		49.8	ug/L		100	(81%-120%)			
QC1204658069 522157008 PSD												
Tetrachloroethylene	50.0	U	ND		40.4	ug/L	12	81	(0%-20%)		10/02/20	19:47
**1,2-Dichloroethane-d4	50.0		49.8		50.7	ug/L		101	(81%-124%)			
**Bromofluorobenzene	50.0		48.3		50.4	ug/L		101	(70%-130%)			
**Toluene-d8	50.0		49.9		50.0	ug/L		100	(81%-120%)			

Notes:

QC Summary

Workorder: 522156

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

The Qualifiers in this report are defined as follows:

**	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.

QC Summary

Workorder: **522156**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

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.

QC Summary

Report Date: October 7, 2020

Westinghouse Electric Company, LLC
PO Drawer R
Columbia, South Carolina

Contact: **Ms. Cynthia Teague**

Workorder: **522156**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2043786										
QC1204650583 522156001 DUP										
Fluoride		10.4		10.4	mg/kg	0.0712		(0%-109%)	JLD1	09/24/20 13:43
QC1204650584 522156002 DUP										
Fluoride		11.9		8.96	mg/kg	28.5		(0%-109%)		09/24/20 15:16
QC1204650582 LCS										
Fluoride	25.2			26.1	mg/kg		103	(90%-110%)		09/24/20 11:40
QC1204650581 MB										
Fluoride			U	0.000	mg/kg					09/24/20 11:09
QC1204650585 522156001 MS										
Fluoride	27.5	10.4		31.0	mg/kg		75.2	(75%-125%)		09/24/20 14:14
QC1204650586 522156002 MS										
Fluoride	27.1	11.9		31.7	mg/kg		73.2*	(75%-125%)		09/24/20 15:46
Rad Alpha Spec										
Batch 2044025										
QC1204651154 522156001 DUP										
Uranium-233/234		2.08		1.98	pCi/g	4.9		(0%-20%)	MG1	09/29/20 13:21
Uranium-235/236	U	0.0783	U	-0.0204	pCi/g	N/A		N/A		
Uranium-238		1.76		1.49	pCi/g	16.4		(0%-20%)		
QC1204651155 LCS										
Uranium-233/234				13.8	pCi/g					09/29/20 13:17
Uranium-235/236				0.710	pCi/g					

QC Summary

Workorder: 522156

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Alpha Spec											
Batch 2044025											
Uranium-238	12.5			13.2	pCi/g		106	(75%-125%)	MG1	09/29/20	13:17
QC1204651153 MB											
Uranium-233/234			U	0.0113	pCi/g					09/29/20	13:21
Uranium-235/236			U	-0.0194	pCi/g						
Uranium-238			U	-0.0236	pCi/g						
Rad Liquid Scintillation											
Batch 2044051											
QC1204651207 522156001 DUP											
Technetium-99	U	-0.158	U	-0.0493	pCi/g	N/A		N/A	JJ3	10/04/20	19:46
QC1204651208 LCS											
Technetium-99	28.5			25.4	pCi/g		88.9	(75%-125%)		10/04/20	21:08
QC1204651206 MB											
Technetium-99			U	-0.236	pCi/g					10/04/20	18:20

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.
- 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.

QC Summary

Workorder: **522156**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

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 #: 522156

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: 2047084

Preparation Method: SW846 5035
Preparation Procedure: GL-OA-E-039 REV# 13
Preparation Batch: 2047083

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

GEL Sample ID#	Client Sample Identification
522156003	C-9-3
522156007	S-5-2
1204658066	Method Blank (MB)
1204658067	Laboratory Control Sample (LCS)
1204658068	522157008(Well #71E) Post Spike (PS)
1204658069	522157008(Well #71E) Post Spike Duplicate (PSD)

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.

Miscellaneous Information

Additional Comments
Samples (See Below) were not indicated as in the analyst’s custody in LIMS. However, the analyst had maintained custody of the samples during analysis.

Sample	Analyte	Value
522156003 (C-9-3)		
522156007 (S-5-2)		

Metals

Product: **Determination of Metals by ICP-MS**

Analytical Method: SW846 3050B/6020B
Analytical Procedure: GL-MA-E-014 REV# 34
Analytical Batch: 2043752

Preparation Method: SW846 3050B
Preparation Procedure: GL-MA-E-009 REV# 29
Preparation Batch: 2043751

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

GEL Sample ID#	Client Sample Identification
522156001	C-9-1
1204650526	Method Blank (MB)**ICP-MS**
1204650527	Laboratory Control Sample (LCS)
1204650534	Laboratory Control Sample (LCS)
1204650530	522156001(C-9-1L) Serial Dilution (SD)
1204650528	522156001(C-9-1S) Matrix Spike (MS)
1204650535	522156001(C-9-1S) Matrix Spike (MS)
1204650529	522156001(C-9-1SD) Matrix Spike Duplicate (MSD)
1204650536	522156001(C-9-1SD) Matrix Spike Duplicate (MSD)

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.

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	522156 001
Uranium-234	2X
Uranium-235	2X
Uranium-238	2X

General Chemistry

Product: **Ion Chromatography**
Analytical Method: SW846 9056A
Analytical Procedure: GL-GC-E-086 REV# 28
Analytical Batches: 2043786 and 2043785

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

GEL Sample ID#	Client Sample Identification
522156001	C-9-1
522156002	C-9-2
522156003	C-9-3
522156004	C-9-4
522156005	C-9-5
522156006	S-5-1
522156007	S-5-2
522156008	S-5-3
1204650581	Method Blank (MB)
1204650582	Laboratory Control Sample (LCS)
1204650583	522156001(C-9-1) Sample Duplicate (DUP)
1204650584	522156002(C-9-2) Sample Duplicate (DUP)
1204650585	522156001(C-9-1) Matrix Spike (MS)
1204650586	522156002(C-9-2) 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	1204650586 (C-9-2MS)	73.2* (75%-125%)

Radiochemistry

Product: **Alphaspec U, Soil/Veg/Solid**

Analytical Method: DOE EML HASL-300, U-02-RC Modified
Analytical Procedure: GL-RAD-A-011 REV# 28
Analytical Batch: 2044025

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2043658

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

GEL Sample ID#	Client Sample Identification
522156001	C-9-1
522156002	C-9-2
522156003	C-9-3
522156004	C-9-4
522156005	C-9-5
522156006	S-5-1
522156007	S-5-2
522156008	S-5-3
1204651153	Method Blank (MB)
1204651154	522156001(C-9-1) Sample Duplicate (DUP)
1204651155	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: 2043658

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2043658

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

GEL Sample ID#	Client Sample Identification
522156001	C-9-1
522156002	C-9-2
522156003	C-9-3
522156004	C-9-4
522156005	C-9-5
522156006	S-5-1
522156007	S-5-2

522156008	S-5-3
1204650336	522156001(C-9-1) 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: 2044051

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

GEL Sample ID#	Client Sample Identification
522156001	C-9-1
522156002	C-9-2
522156003	C-9-3
522156004	C-9-4
522156005	C-9-5
522156006	S-5-1
522156007	S-5-2
522156008	S-5-3
1204651206	Method Blank (MB)
1204651207	522156001(C-9-1) Sample Duplicate (DUP)
1204651208	Laboratory Control Sample (LCS)

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

Technical Information

Recounts
Sample 522156007 (S-5-2) was recounted due to high MDC. The recount is reported.

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.

Page: 1 of 1
Project # Sealand Soil Sampling
GEL Quote #: WNUC009
COC Number (1):
PO # 4500778461, Line 1

522156

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

GEL Work Order Number: *GEL Project Manager:*

Client Name: Westinghouse Phone # 803.647.3171
Project/Site Name: Fax # 803.695.3964
Address: 5801 Bluff Road, Hopkins, SC 29061
Collected By: Randy Crews R. Crews Send Results To: Teaguecj@westinghouse.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of containers	Isotopic Uranium by Alpha Spec	Isotopic Uranium by ICPMS	Tc-99	Fluoride	VOCs						<-- Preservative Type (6) / Comments: Note: extra sample is required for sample specific QC
C-9-1	9/22/2020	1223	G		SO			1	X	X	X	X							
C-9-2	9/22/2020	1234	G		SO			1	X		X	X							
C-9-3	9/22/2020	1246	G		SO			2	X		X	X	X						
C-9-4	9/22/2020	1257	G		SO			1	X		X	X							
C-9-5	9/22/2020	1305	G		SO			1	X		X	X							
S-5-1	9/22/2020	1319	G		SO			1	X		X	X							
S-5-2	9/22/2020	1326	G		SO			2	X		X	X	X						
S-5-2	9/22/2020	1339	G		SO			1	X		X	X							

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Randy Crews R. Crews	09/23/2020	1020	1 Secure Location	09/23/2020	1020
2 Secure Location	09/23/2020	1044	2 [signature]	9-23-20	1044
3 [signature]	9-23-20	1527	3 [signature]	9/23/20	1527

TAT Requested: Normal: ____ Rush: X Specify: 10 days (2 weeks)
Fax Results: [ ] Yes [x] 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 [ ] Central [ ] Mountain [ ] Other:

> 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**=Fecal, **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**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
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 concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

GEL Laboratories LLC

1 SAMPLE RECEIPT & REVIEW FORM 522156

Client: WNUC	**SDG/AR/COC/Work Order:**
Received By: ZKW	**Date Received:** 9/23/20
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) 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?		✓	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?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	✓		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) mR/Hr **Classified as: (Rad 1) Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	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?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1°C
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR3-18 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?		✓		Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?	✓			If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA✓ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA✓ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA✓ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected: COC has #8R, #9R, & #10R, but Cont. do not have "R"
10	Date & time on COC match date & time on bottles?	✓			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?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

*CoC also lists "S-5-2" twice, but we received "S-5-3" collected 9/22 @ 1339

PM (or PMA) review: Initials SH Date 9/24/20 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 07 October 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

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
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gel.com

October 07, 2020

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

Re: ENV-CONSENTA-4500778461
Work Order: 522862

Dear Ms. Teague:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 30, 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

Lindsay Fabra
Project Manager

Purchase Order: PO 4500778461
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: 522862 GEL Work Order: 522862

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

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

Analytical Detections Summary

SDG/Report#	522862	**Client**	Westinghouse Electric Co, LLC
Project ID	ENV-CONSENTA-4500778461		

GEL ID	Client Sample ID	Method	CAS	Analyte	Result	Q
522862001	C-23-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.863 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.54 pCi/g	
			15117-96-1/13982-70-2	Uranium-235/236	0.164 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	3.99 mg/kg	
522862002	C-23-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.00 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.63 pCi/g	
			15117-96-1/13982-70-2	Uranium-235/236	0.213 pCi/g	
522862003	C-23-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.04 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.79 pCi/g	
			15117-96-1/13982-70-2	Uranium-235/236	0.199 pCi/g	
522862004	C-23-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.792 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.83 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	2.28 mg/kg	
522862005	C-22-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.71 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.43 pCi/g	
		SW846 8260D	127-18-4	Tetrachloroethylene	0.986 ug/kg	
		SW846 9056A	16984-48-8	Fluoride	1.18 mg/kg	
522862006	C-22-6	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.09 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.27 pCi/g	
		SW846 3050B/6020B	7440-61-1	Uranium-238	1190 ug/kg	
522862007	C-22-7	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.801 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.59 pCi/g	
			15117-96-1/13982-70-2	Uranium-235/236	0.198 pCi/g	
522862008	C-22-8	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.18 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	2.51 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	2.46 mg/kg	
522862009	C-23-9	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.1 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.93 pCi/g	
522862010	C-22-10	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.936 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.85 pCi/g	
			15117-96-1/13982-70-2	Uranium-235/236	0.18 pCi/g	

GEL Laboratories LLC

Analytical Detections Summary

SDG/Report#	522862	**Client**	Westinghouse Electric Co, LLC
Project ID	ENV-CONSENTA-4500778461		

GEL ID	Client Sample ID	Method	CAS	Analyte	Result	Q
522862010	C-22-10	SW846 8260D	67-64-1	Acetone	20.5 ug/kg	
			127-18-4	Tetrachloroethylene	2.24 ug/kg	
522862011	C-22-11	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.11 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.6 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.78 mg/kg	
522862012	C-61-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.87 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.77 pCi/g	
522862013	C-61-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.01 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.76 pCi/g	
522862014	C-61-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.957 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	0.662 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.76 mg/kg	
522862015	C-61-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.67 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.15 pCi/g	
			15117-96-1/1 3982-70-2	Uranium-235/236	0.305 pCi/g	
		SW846 3050B/6020B	15117-96-1	Uranium-235	14.8 ug/kg	
			7440-61-1	Uranium-238	1370 ug/kg	
522862016	C-61-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.08 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.78 pCi/g	
522862017	C-64-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.39 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.63 pCi/g	
522862018	C-64-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.36 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.73 pCi/g	
522862019	C-64-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.24 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	2.23 pCi/g	
		SW846 8260D	67-64-1	Acetone	10.3 ug/kg	
			127-18-4	Tetrachloroethylene	1.49 ug/kg	
			108-88-3	Toluene	1.14 ug/kg	
522862020	C-64-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.779 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.3 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.25 mg/kg	

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

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Certificate of Analysis

Report Date: October 7, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-23-1	Project:	WNUC00901
Sample ID:	522862001	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	24-SEP-20 10:07		
Receive Date:	30-SEP-20		
Collector:	Client		
Moisture:	8.42%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		3.99	0.367	1.08	mg/kg	9.88	1	JLD1	10/01/20	2318	2046355	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/30/20	2215	2046352

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: October 7, 2020

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

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

Client Sample ID: C-23-2
Sample ID: 522862002
Matrix: Soil
Collect Date: 24-SEP-20 10:12
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.1%

Project: WNUC00901
Client ID: WNUC009

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	10.1	1	JLD1	10/02/20	0152	2046355	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/30/20	2215	2046352

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: October 7, 2020

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

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

Client Sample ID: C-23-3
Sample ID: 522862003
Matrix: Soil
Collect Date: 24-SEP-20 10:19
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.381	1.12	mg/kg	10.1	1	JLD1	10/02/20	0223	2046355	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/30/20	2215	2046352

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: October 7, 2020

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

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

Client Sample ID: C-23-4
Sample ID: 522862004
Matrix: Soil
Collect Date: 24-SEP-20 10:24
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.4%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		2.28	0.377	1.11	mg/kg	9.93	1	JLD1	10/02/20	0254	2046355	1
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
1,1,1,2-Tetrachloroethane	U	ND	0.285	0.857	ug/kg	0.768	1	JP1	10/02/20	1805	2047333	2
1,1,1-Trichloroethane	U	ND	0.285	0.857	ug/kg	0.768	1					
1,1,2,2-Tetrachloroethane	U	ND	0.285	0.857	ug/kg	0.768	1					
1,1,2-Trichloroethane	U	ND	0.285	0.857	ug/kg	0.768	1					
1,1-Dichloroethane	U	ND	0.285	0.857	ug/kg	0.768	1					
1,1-Dichloroethylene	U	ND	0.285	0.857	ug/kg	0.768	1					
1,2,3-Trichloropropane	U	ND	0.285	0.857	ug/kg	0.768	1					
1,2,4-Trichlorobenzene	U	ND	0.285	0.857	ug/kg	0.768	1					
1,2-Dibromo-3-chloropropane	U	ND	0.429	0.857	ug/kg	0.768	1					
1,2-Dibromoethane	U	ND	0.285	0.857	ug/kg	0.768	1					
1,2-Dichloroethane	U	ND	0.285	0.857	ug/kg	0.768	1					
1,2-Dichloropropane	U	ND	0.285	0.857	ug/kg	0.768	1					
2-Butanone	U	ND	1.43	4.29	ug/kg	0.768	1					
2-Chloro-1,3-butadiene	U	ND	0.285	0.857	ug/kg	0.768	1					
2-Hexanone	U	ND	1.43	4.29	ug/kg	0.768	1					
4-Methyl-2-pentanone	U	ND	1.43	4.29	ug/kg	0.768	1					
Acetone	J	3.38	1.43	4.29	ug/kg	0.768	1					
Acetonitrile	U	ND	7.14	21.4	ug/kg	0.768	1					
Acrolein	U	ND	1.43	4.29	ug/kg	0.768	1					
Acrylonitrile	U	ND	1.43	4.29	ug/kg	0.768	1					
Allyl chloride	U	ND	1.43	4.29	ug/kg	0.768	1					
Benzene	U	ND	0.285	0.857	ug/kg	0.768	1					
Bromodichloromethane	U	ND	0.285	0.857	ug/kg	0.768	1					
Bromoform	U	ND	0.285	0.857	ug/kg	0.768	1					
Bromomethane	U	ND	0.285	0.857	ug/kg	0.768	1					
Carbon disulfide	U	ND	1.43	4.29	ug/kg	0.768	1					
Carbon tetrachloride	U	ND	0.285	0.857	ug/kg	0.768	1					
Chlorobenzene	U	ND	0.285	0.857	ug/kg	0.768	1					
Chloroethane	U	ND	0.285	0.857	ug/kg	0.768	1					
Chloroform	U	ND	0.285	0.857	ug/kg	0.768	1					
Chloromethane	U	ND	0.285	0.857	ug/kg	0.768	1					
Dibromochloromethane	U	ND	0.285	0.857	ug/kg	0.768	1					
Dibromomethane	U	ND	0.285	0.857	ug/kg	0.768	1					

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Certificate of Analysis

Report Date: October 7, 2020

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

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

Client Sample ID: C-23-4 Project: WNUC00901
Sample ID: 522862004 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
Dichlorodifluoromethane	U	ND	0.285	0.857	ug/kg	0.768	1					
Ethyl methacrylate	U	ND	1.43	4.29	ug/kg	0.768	1					
Ethylbenzene	U	ND	0.285	0.857	ug/kg	0.768	1					
Iodomethane	U	ND	1.43	4.29	ug/kg	0.768	1					
Isobutyl alcohol	U	ND	14.3	42.9	ug/kg	0.768	1					
Methacrylonitrile	U	ND	1.43	4.29	ug/kg	0.768	1					
Methyl methacrylate	U	ND	1.43	4.29	ug/kg	0.768	1					
Methylene chloride	U	ND	1.43	4.29	ug/kg	0.768	1					
Pentachloroethane	U	ND	1.43	4.29	ug/kg	0.768	1					
Propionitrile	U	ND	1.43	4.29	ug/kg	0.768	1					
Styrene	U	ND	0.285	0.857	ug/kg	0.768	1					
Tetrachloroethylene	U	ND	0.285	0.857	ug/kg	0.768	1					
Toluene	J	0.634	0.285	0.857	ug/kg	0.768	1					
Trichloroethylene	U	ND	0.285	0.857	ug/kg	0.768	1					
Trichlorofluoromethane	U	ND	0.285	0.857	ug/kg	0.768	1					
Vinyl acetate	U	ND	1.43	4.29	ug/kg	0.768	1					
Vinyl chloride	U	ND	0.285	0.857	ug/kg	0.768	1					
Xylenes (total)	U	ND	0.857	2.57	ug/kg	0.768	1					
bis(2-Chloro-1-methylethyl)ether	U	ND	1.43	4.29	ug/kg	0.768	1					
cis-1,3-Dichloropropylene	U	ND	0.285	0.857	ug/kg	0.768	1					
trans-1,2-Dichloroethylene	U	ND	0.285	0.857	ug/kg	0.768	1					
trans-1,3-Dichloropropylene	U	ND	0.285	0.857	ug/kg	0.768	1					
trans-1,4-Dichloro-2-butene	U	ND	1.43	4.29	ug/kg	0.768	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/24/20	1024	2047332
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/30/20	2215	2046352

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 VOC "Dry Weight Corrected"	40.0 ug/kg	50.0	93	(81%-124%)
Bromofluorobenzene	SW846 8260D VOC "Dry Weight Corrected"	46.0 ug/kg	50.0	107	(70%-130%)

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Certificate of Analysis

Report Date: October 7, 2020

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

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

Client Sample ID: C-23-4 Project: WNUC00901
Sample ID: 522862004 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
Toluene-d8		SW846 8260D VOC "Dry Weight Corrected"		45.4	ug/kg	50.0		106	(81%-120%)		

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: October 7, 2020

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

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

Client Sample ID: C-22-5
Sample ID: 522862005
Matrix: Soil
Collect Date: 24-SEP-20 10:33
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.9%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.18	0.382	1.12	mg/kg	10.0	1	JLD1	10/02/20	0325	2046355	1
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
1,1,1,2-Tetrachloroethane	U	ND	0.291	0.873	ug/kg	0.778	1	JP1	10/02/20	1831	2047333	2
1,1,1-Trichloroethane	U	ND	0.291	0.873	ug/kg	0.778	1					
1,1,2,2-Tetrachloroethane	U	ND	0.291	0.873	ug/kg	0.778	1					
1,1,2-Trichloroethane	U	ND	0.291	0.873	ug/kg	0.778	1					
1,1-Dichloroethane	U	ND	0.291	0.873	ug/kg	0.778	1					
1,1-Dichloroethylene	U	ND	0.291	0.873	ug/kg	0.778	1					
1,2,3-Trichloropropane	U	ND	0.291	0.873	ug/kg	0.778	1					
1,2,4-Trichlorobenzene	U	ND	0.291	0.873	ug/kg	0.778	1					
1,2-Dibromo-3-chloropropane	U	ND	0.436	0.873	ug/kg	0.778	1					
1,2-Dibromoethane	U	ND	0.291	0.873	ug/kg	0.778	1					
1,2-Dichloroethane	U	ND	0.291	0.873	ug/kg	0.778	1					
1,2-Dichloropropane	U	ND	0.291	0.873	ug/kg	0.778	1					
2-Butanone	U	ND	1.45	4.36	ug/kg	0.778	1					
2-Chloro-1,3-butadiene	U	ND	0.291	0.873	ug/kg	0.778	1					
2-Hexanone	U	ND	1.45	4.36	ug/kg	0.778	1					
4-Methyl-2-pentanone	U	ND	1.45	4.36	ug/kg	0.778	1					
Acetone	U	ND	1.45	4.36	ug/kg	0.778	1					
Acetonitrile	U	ND	7.27	21.8	ug/kg	0.778	1					
Acrolein	U	ND	1.45	4.36	ug/kg	0.778	1					
Acrylonitrile	U	ND	1.45	4.36	ug/kg	0.778	1					
Allyl chloride	U	ND	1.45	4.36	ug/kg	0.778	1					
Benzene	U	ND	0.291	0.873	ug/kg	0.778	1					
Bromodichloromethane	U	ND	0.291	0.873	ug/kg	0.778	1					
Bromoform	U	ND	0.291	0.873	ug/kg	0.778	1					
Bromomethane	U	ND	0.291	0.873	ug/kg	0.778	1					
Carbon disulfide	U	ND	1.45	4.36	ug/kg	0.778	1					
Carbon tetrachloride	U	ND	0.291	0.873	ug/kg	0.778	1					
Chlorobenzene	U	ND	0.291	0.873	ug/kg	0.778	1					
Chloroethane	U	ND	0.291	0.873	ug/kg	0.778	1					
Chloroform	U	ND	0.291	0.873	ug/kg	0.778	1					
Chloromethane	U	ND	0.291	0.873	ug/kg	0.778	1					
Dibromochloromethane	U	ND	0.291	0.873	ug/kg	0.778	1					
Dibromomethane	U	ND	0.291	0.873	ug/kg	0.778	1					

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Certificate of Analysis

Report Date: October 7, 2020

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

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

Client Sample ID: C-22-5 Project: WNUC00901
Sample ID: 522862005 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
Dichlorodifluoromethane	U	ND	0.291	0.873	ug/kg	0.778	1					
Ethyl methacrylate	U	ND	1.45	4.36	ug/kg	0.778	1					
Ethylbenzene	U	ND	0.291	0.873	ug/kg	0.778	1					
Iodomethane	U	ND	1.45	4.36	ug/kg	0.778	1					
Isobutyl alcohol	U	ND	14.5	43.6	ug/kg	0.778	1					
Methacrylonitrile	U	ND	1.45	4.36	ug/kg	0.778	1					
Methyl methacrylate	U	ND	1.45	4.36	ug/kg	0.778	1					
Methylene chloride	U	ND	1.45	4.36	ug/kg	0.778	1					
Pentachloroethane	U	ND	1.45	4.36	ug/kg	0.778	1					
Propionitrile	U	ND	1.45	4.36	ug/kg	0.778	1					
Styrene	U	ND	0.291	0.873	ug/kg	0.778	1					
Tetrachloroethylene		0.986	0.291	0.873	ug/kg	0.778	1					
Toluene	U	ND	0.291	0.873	ug/kg	0.778	1					
Trichloroethylene	U	ND	0.291	0.873	ug/kg	0.778	1					
Trichlorofluoromethane	U	ND	0.291	0.873	ug/kg	0.778	1					
Vinyl acetate	U	ND	1.45	4.36	ug/kg	0.778	1					
Vinyl chloride	U	ND	0.291	0.873	ug/kg	0.778	1					
Xylenes (total)	U	ND	0.873	2.62	ug/kg	0.778	1					
bis(2-Chloro-1-methylethyl)ether	U	ND	1.45	4.36	ug/kg	0.778	1					
cis-1,3-Dichloropropylene	U	ND	0.291	0.873	ug/kg	0.778	1					
trans-1,2-Dichloroethylene	U	ND	0.291	0.873	ug/kg	0.778	1					
trans-1,3-Dichloropropylene	U	ND	0.291	0.873	ug/kg	0.778	1					
trans-1,4-Dichloro-2-butene	U	ND	1.45	4.36	ug/kg	0.778	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/24/20	1033	2047332
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/30/20	2215	2046352

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 VOC "Dry Weight Corrected"	41.1 ug/kg	50.0	94	(81%-124%)
Bromofluorobenzene	SW846 8260D VOC "Dry Weight Corrected"	42.0 ug/kg	50.0	96	(70%-130%)

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Report Date: October 7, 2020

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

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

Client Sample ID: C-22-5 Project: WNUC00901
Sample ID: 522862005 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
Toluene-d8		SW846 8260D VOC "Dry Weight Corrected"		45.0	ug/kg	50.0		103	(81%-120%)		

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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Report Date: October 7, 2020

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

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

Client Sample ID: C-22-6
Sample ID: 522862006
Matrix: Soil
Collect Date: 24-SEP-20 10:42
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	1.00	0.375	1.10	mg/kg	9.93	1	JLD1	10/02/20	0356	2046355	1
Metals Analysis-ICP-MS												
SW846 3050B/6020B Isotopic Uranium-234/235/238 "Dry Weight Corrected"												
Uranium-234	U	ND	2.03	10.2	ug/kg	91.4	2	PRB	10/07/20	0226	2046325	2
Uranium-235	J	12.3	2.03	14.2	ug/kg	91.4	2	PRB	10/07/20	0848	2046325	3
Uranium-238		1190	13.4	40.7	ug/kg	91.4	2					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	SM1	10/01/20	0915	2046324
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/30/20	2215	2046352

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
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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Report Date: October 7, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-22-7	Project:	WNUC00901
Sample ID:	522862007	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	24-SEP-20 10:48		
Receive Date:	30-SEP-20		
Collector:	Client		
Moisture:	8.18%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.367	1.08	mg/kg	9.90	1	JLD1	10/02/20	0426	2046355	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/30/20	2215	2046352

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: October 7, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-22-8	Project:	WNUC00901
Sample ID:	522862008	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	24-SEP-20 10:56		
Receive Date:	30-SEP-20		
Collector:	Client		
Moisture:	9.53%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		2.46	0.381	1.12	mg/kg	10.1	1	JLD1	10/06/20	0054	2047325	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	2012	2047324

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: October 7, 2020

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

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

Client Sample ID: C-23-9
Sample ID: 522862009
Matrix: Soil
Collect Date: 24-SEP-20 11:03
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.3%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	1.10	0.383	1.13	mg/kg	10.0	1	JLD1	10/02/20	0457	2046355	1
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
1,1,1,2-Tetrachloroethane	U	ND	0.275	0.826	ug/kg	0.732	1	JP1	10/02/20	1857	2047333	2
1,1,1-Trichloroethane	U	ND	0.275	0.826	ug/kg	0.732	1					
1,1,2,2-Tetrachloroethane	U	ND	0.275	0.826	ug/kg	0.732	1					
1,1,2-Trichloroethane	U	ND	0.275	0.826	ug/kg	0.732	1					
1,1-Dichloroethane	U	ND	0.275	0.826	ug/kg	0.732	1					
1,1-Dichloroethylene	U	ND	0.275	0.826	ug/kg	0.732	1					
1,2,3-Trichloropropane	U	ND	0.275	0.826	ug/kg	0.732	1					
1,2,4-Trichlorobenzene	U	ND	0.275	0.826	ug/kg	0.732	1					
1,2-Dibromo-3-chloropropane	U	ND	0.413	0.826	ug/kg	0.732	1					
1,2-Dibromoethane	U	ND	0.275	0.826	ug/kg	0.732	1					
1,2-Dichloroethane	U	ND	0.275	0.826	ug/kg	0.732	1					
1,2-Dichloropropane	U	ND	0.275	0.826	ug/kg	0.732	1					
2-Butanone	U	ND	1.38	4.13	ug/kg	0.732	1					
2-Chloro-1,3-butadiene	U	ND	0.275	0.826	ug/kg	0.732	1					
2-Hexanone	U	ND	1.38	4.13	ug/kg	0.732	1					
4-Methyl-2-pentanone	U	ND	1.38	4.13	ug/kg	0.732	1					
Acetone	U	ND	1.38	4.13	ug/kg	0.732	1					
Acetonitrile	U	ND	6.88	20.6	ug/kg	0.732	1					
Acrolein	U	ND	1.38	4.13	ug/kg	0.732	1					
Acrylonitrile	U	ND	1.38	4.13	ug/kg	0.732	1					
Allyl chloride	U	ND	1.38	4.13	ug/kg	0.732	1					
Benzene	U	ND	0.275	0.826	ug/kg	0.732	1					
Bromodichloromethane	U	ND	0.275	0.826	ug/kg	0.732	1					
Bromoform	U	ND	0.275	0.826	ug/kg	0.732	1					
Bromomethane	U	ND	0.275	0.826	ug/kg	0.732	1					
Carbon disulfide	U	ND	1.38	4.13	ug/kg	0.732	1					
Carbon tetrachloride	U	ND	0.275	0.826	ug/kg	0.732	1					
Chlorobenzene	U	ND	0.275	0.826	ug/kg	0.732	1					
Chloroethane	U	ND	0.275	0.826	ug/kg	0.732	1					
Chloroform	U	ND	0.275	0.826	ug/kg	0.732	1					
Chloromethane	U	ND	0.275	0.826	ug/kg	0.732	1					
Dibromochloromethane	U	ND	0.275	0.826	ug/kg	0.732	1					
Dibromomethane	U	ND	0.275	0.826	ug/kg	0.732	1					

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

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

Client Sample ID: C-23-9 Project: WNUC00901
Sample ID: 522862009 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
Dichlorodifluoromethane	U	ND	0.275	0.826	ug/kg	0.732	1					
Ethyl methacrylate	U	ND	1.38	4.13	ug/kg	0.732	1					
Ethylbenzene	U	ND	0.275	0.826	ug/kg	0.732	1					
Iodomethane	U	ND	1.38	4.13	ug/kg	0.732	1					
Isobutyl alcohol	U	ND	13.8	41.3	ug/kg	0.732	1					
Methacrylonitrile	U	ND	1.38	4.13	ug/kg	0.732	1					
Methyl methacrylate	U	ND	1.38	4.13	ug/kg	0.732	1					
Methylene chloride	U	ND	1.38	4.13	ug/kg	0.732	1					
Pentachloroethane	U	ND	1.38	4.13	ug/kg	0.732	1					
Propionitrile	U	ND	1.38	4.13	ug/kg	0.732	1					
Styrene	U	ND	0.275	0.826	ug/kg	0.732	1					
Tetrachloroethylene	U	ND	0.275	0.826	ug/kg	0.732	1					
Toluene	U	ND	0.275	0.826	ug/kg	0.732	1					
Trichloroethylene	U	ND	0.275	0.826	ug/kg	0.732	1					
Trichlorofluoromethane	U	ND	0.275	0.826	ug/kg	0.732	1					
Vinyl acetate	U	ND	1.38	4.13	ug/kg	0.732	1					
Vinyl chloride	U	ND	0.275	0.826	ug/kg	0.732	1					
Xylenes (total)	U	ND	0.826	2.48	ug/kg	0.732	1					
bis(2-Chloro-1-methylethyl)ether	U	ND	1.38	4.13	ug/kg	0.732	1					
cis-1,3-Dichloropropylene	U	ND	0.275	0.826	ug/kg	0.732	1					
trans-1,2-Dichloroethylene	U	ND	0.275	0.826	ug/kg	0.732	1					
trans-1,3-Dichloropropylene	U	ND	0.275	0.826	ug/kg	0.732	1					
trans-1,4-Dichloro-2-butene	U	ND	1.38	4.13	ug/kg	0.732	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/24/20	1103	2047332
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/30/20	2215	2046352

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 VOC "Dry Weight Corrected"	40.1 ug/kg	50.0	97	(81%-124%)
Bromofluorobenzene	SW846 8260D VOC "Dry Weight Corrected"	39.2 ug/kg	50.0	95	(70%-130%)

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Report Date: October 7, 2020

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

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

Client Sample ID: C-23-9 Project: WNUC00901
Sample ID: 522862009 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
Toluene-d8		SW846 8260D VOC "Dry Weight Corrected"		41.7	ug/kg	50.0		101	(81%-120%)		

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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Report Date: October 7, 2020

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

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

Client Sample ID: C-22-10
Sample ID: 522862010
Matrix: Soil
Collect Date: 24-SEP-20 11:13
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.375	1.10	mg/kg	9.83	1	JLD1	10/02/20	0528	2046355	1
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
1,1,1,2-Tetrachloroethane	U	ND	0.471	1.41	ug/kg	1.26	1	JP1	10/02/20	1923	2047333	2
1,1,1-Trichloroethane	U	ND	0.471	1.41	ug/kg	1.26	1					
1,1,2,2-Tetrachloroethane	U	ND	0.471	1.41	ug/kg	1.26	1					
1,1,2-Trichloroethane	U	ND	0.471	1.41	ug/kg	1.26	1					
1,1-Dichloroethane	U	ND	0.471	1.41	ug/kg	1.26	1					
1,1-Dichloroethylene	U	ND	0.471	1.41	ug/kg	1.26	1					
1,2,3-Trichloropropane	U	ND	0.471	1.41	ug/kg	1.26	1					
1,2,4-Trichlorobenzene	U	ND	0.471	1.41	ug/kg	1.26	1					
1,2-Dibromo-3-chloropropane	U	ND	0.707	1.41	ug/kg	1.26	1					
1,2-Dibromoethane	U	ND	0.471	1.41	ug/kg	1.26	1					
1,2-Dichloroethane	U	ND	0.471	1.41	ug/kg	1.26	1					
1,2-Dichloropropane	U	ND	0.471	1.41	ug/kg	1.26	1					
2-Butanone	U	ND	2.36	7.07	ug/kg	1.26	1					
2-Chloro-1,3-butadiene	U	ND	0.471	1.41	ug/kg	1.26	1					
2-Hexanone	U	ND	2.36	7.07	ug/kg	1.26	1					
4-Methyl-2-pentanone	U	ND	2.36	7.07	ug/kg	1.26	1					
Acetone		20.5	2.36	7.07	ug/kg	1.26	1					
Acetonitrile	U	ND	11.8	35.4	ug/kg	1.26	1					
Acrolein	U	ND	2.36	7.07	ug/kg	1.26	1					
Acrylonitrile	U	ND	2.36	7.07	ug/kg	1.26	1					
Allyl chloride	U	ND	2.36	7.07	ug/kg	1.26	1					
Benzene	U	ND	0.471	1.41	ug/kg	1.26	1					
Bromodichloromethane	U	ND	0.471	1.41	ug/kg	1.26	1					
Bromoform	U	ND	0.471	1.41	ug/kg	1.26	1					
Bromomethane	U	ND	0.471	1.41	ug/kg	1.26	1					
Carbon disulfide	U	ND	2.36	7.07	ug/kg	1.26	1					
Carbon tetrachloride	U	ND	0.471	1.41	ug/kg	1.26	1					
Chlorobenzene	U	ND	0.471	1.41	ug/kg	1.26	1					
Chloroethane	U	ND	0.471	1.41	ug/kg	1.26	1					
Chloroform	U	ND	0.471	1.41	ug/kg	1.26	1					
Chloromethane	U	ND	0.471	1.41	ug/kg	1.26	1					
Dibromochloromethane	U	ND	0.471	1.41	ug/kg	1.26	1					
Dibromomethane	U	ND	0.471	1.41	ug/kg	1.26	1					

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

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

Client Sample ID: C-22-10 Project: WNUC00901
Sample ID: 522862010 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
Dichlorodifluoromethane	U	ND	0.471	1.41	ug/kg	1.26	1					
Ethyl methacrylate	U	ND	2.36	7.07	ug/kg	1.26	1					
Ethylbenzene	U	ND	0.471	1.41	ug/kg	1.26	1					
Iodomethane	U	ND	2.36	7.07	ug/kg	1.26	1					
Isobutyl alcohol	U	ND	23.6	70.7	ug/kg	1.26	1					
Methacrylonitrile	U	ND	2.36	7.07	ug/kg	1.26	1					
Methyl methacrylate	U	ND	2.36	7.07	ug/kg	1.26	1					
Methylene chloride	U	ND	2.36	7.07	ug/kg	1.26	1					
Pentachloroethane	U	ND	2.36	7.07	ug/kg	1.26	1					
Propionitrile	U	ND	2.36	7.07	ug/kg	1.26	1					
Styrene	U	ND	0.471	1.41	ug/kg	1.26	1					
Tetrachloroethylene		2.24	0.471	1.41	ug/kg	1.26	1					
Toluene	J	1.25	0.471	1.41	ug/kg	1.26	1					
Trichloroethylene	U	ND	0.471	1.41	ug/kg	1.26	1					
Trichlorofluoromethane	U	ND	0.471	1.41	ug/kg	1.26	1					
Vinyl acetate	U	ND	2.36	7.07	ug/kg	1.26	1					
Vinyl chloride	U	ND	0.471	1.41	ug/kg	1.26	1					
Xylenes (total)	U	ND	1.41	4.24	ug/kg	1.26	1					
bis(2-Chloro-1-methylethyl)ether	U	ND	2.36	7.07	ug/kg	1.26	1					
cis-1,3-Dichloropropylene	U	ND	0.471	1.41	ug/kg	1.26	1					
trans-1,2-Dichloroethylene	U	ND	0.471	1.41	ug/kg	1.26	1					
trans-1,3-Dichloropropylene	U	ND	0.471	1.41	ug/kg	1.26	1					
trans-1,4-Dichloro-2-butene	U	ND	2.36	7.07	ug/kg	1.26	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/24/20	1113	2047332
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/30/20	2215	2046352

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 VOC "Dry Weight Corrected"	67.3 ug/kg	50.0	95	(81%-124%)
Bromofluorobenzene	SW846 8260D VOC "Dry Weight Corrected"	66.9 ug/kg	50.0	95	(70%-130%)

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Report Date: October 7, 2020

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

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

Client Sample ID: C-22-10 Project: WNUC00901
Sample ID: 522862010 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
Toluene-d8		SW846 8260D VOC "Dry Weight Corrected"		72.4	ug/kg	50.0		102	(81%-120%)		

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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Report Date: October 7, 2020

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

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

Client Sample ID: C-22-11
Sample ID: 522862011
Matrix: Soil
Collect Date: 24-SEP-20 11:22
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.07%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.78	0.370	1.09	mg/kg	9.90	1	JLD1	10/02/20	0559	2046355	1
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
1,1,1,2-Tetrachloroethane	U	ND	0.307	0.923	ug/kg	0.839	1	JP1	10/02/20	1948	2047333	2
1,1,1-Trichloroethane	U	ND	0.307	0.923	ug/kg	0.839	1					
1,1,2,2-Tetrachloroethane	U	ND	0.307	0.923	ug/kg	0.839	1					
1,1,2-Trichloroethane	U	ND	0.307	0.923	ug/kg	0.839	1					
1,1-Dichloroethane	U	ND	0.307	0.923	ug/kg	0.839	1					
1,1-Dichloroethylene	U	ND	0.307	0.923	ug/kg	0.839	1					
1,2,3-Trichloropropane	U	ND	0.307	0.923	ug/kg	0.839	1					
1,2,4-Trichlorobenzene	U	ND	0.307	0.923	ug/kg	0.839	1					
1,2-Dibromo-3-chloropropane	U	ND	0.461	0.923	ug/kg	0.839	1					
1,2-Dibromoethane	U	ND	0.307	0.923	ug/kg	0.839	1					
1,2-Dichloroethane	U	ND	0.307	0.923	ug/kg	0.839	1					
1,2-Dichloropropane	U	ND	0.307	0.923	ug/kg	0.839	1					
2-Butanone	U	ND	1.54	4.61	ug/kg	0.839	1					
2-Chloro-1,3-butadiene	U	ND	0.307	0.923	ug/kg	0.839	1					
2-Hexanone	U	ND	1.54	4.61	ug/kg	0.839	1					
4-Methyl-2-pentanone	U	ND	1.54	4.61	ug/kg	0.839	1					
Acetone	U	ND	1.54	4.61	ug/kg	0.839	1					
Acetonitrile	U	ND	7.69	23.1	ug/kg	0.839	1					
Acrolein	U	ND	1.54	4.61	ug/kg	0.839	1					
Acrylonitrile	U	ND	1.54	4.61	ug/kg	0.839	1					
Allyl chloride	U	ND	1.54	4.61	ug/kg	0.839	1					
Benzene	U	ND	0.307	0.923	ug/kg	0.839	1					
Bromodichloromethane	U	ND	0.307	0.923	ug/kg	0.839	1					
Bromoform	U	ND	0.307	0.923	ug/kg	0.839	1					
Bromomethane	U	ND	0.307	0.923	ug/kg	0.839	1					
Carbon disulfide	U	ND	1.54	4.61	ug/kg	0.839	1					
Carbon tetrachloride	U	ND	0.307	0.923	ug/kg	0.839	1					
Chlorobenzene	U	ND	0.307	0.923	ug/kg	0.839	1					
Chloroethane	U	ND	0.307	0.923	ug/kg	0.839	1					
Chloroform	U	ND	0.307	0.923	ug/kg	0.839	1					
Chloromethane	U	ND	0.307	0.923	ug/kg	0.839	1					
Dibromochloromethane	U	ND	0.307	0.923	ug/kg	0.839	1					
Dibromomethane	U	ND	0.307	0.923	ug/kg	0.839	1					

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Certificate of Analysis

Report Date: October 7, 2020

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

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

Client Sample ID: C-22-11 Project: WNUC00901
Sample ID: 522862011 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
Dichlorodifluoromethane	U	ND	0.307	0.923	ug/kg	0.839	1					
Ethyl methacrylate	U	ND	1.54	4.61	ug/kg	0.839	1					
Ethylbenzene	U	ND	0.307	0.923	ug/kg	0.839	1					
Iodomethane	U	ND	1.54	4.61	ug/kg	0.839	1					
Isobutyl alcohol	U	ND	15.4	46.1	ug/kg	0.839	1					
Methacrylonitrile	U	ND	1.54	4.61	ug/kg	0.839	1					
Methyl methacrylate	U	ND	1.54	4.61	ug/kg	0.839	1					
Methylene chloride	U	ND	1.54	4.61	ug/kg	0.839	1					
Pentachloroethane	U	ND	1.54	4.61	ug/kg	0.839	1					
Propionitrile	U	ND	1.54	4.61	ug/kg	0.839	1					
Styrene	U	ND	0.307	0.923	ug/kg	0.839	1					
Tetrachloroethylene	J	0.489	0.307	0.923	ug/kg	0.839	1					
Toluene	U	ND	0.307	0.923	ug/kg	0.839	1					
Trichloroethylene	U	ND	0.307	0.923	ug/kg	0.839	1					
Trichlorofluoromethane	U	ND	0.307	0.923	ug/kg	0.839	1					
Vinyl acetate	U	ND	1.54	4.61	ug/kg	0.839	1					
Vinyl chloride	U	ND	0.307	0.923	ug/kg	0.839	1					
Xylenes (total)	U	ND	0.923	2.77	ug/kg	0.839	1					
bis(2-Chloro-1-methylethyl)ether	U	ND	1.54	4.61	ug/kg	0.839	1					
cis-1,3-Dichloropropylene	U	ND	0.307	0.923	ug/kg	0.839	1					
trans-1,2-Dichloroethylene	U	ND	0.307	0.923	ug/kg	0.839	1					
trans-1,3-Dichloropropylene	U	ND	0.307	0.923	ug/kg	0.839	1					
trans-1,4-Dichloro-2-butene	U	ND	1.54	4.61	ug/kg	0.839	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/24/20	1122	2047332
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/30/20	2215	2046352

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 VOC "Dry Weight Corrected"	44.1 ug/kg	50.0	96	(81%-124%)
Bromofluorobenzene	SW846 8260D VOC "Dry Weight Corrected"	42.9 ug/kg	50.0	93	(70%-130%)

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Report Date: October 7, 2020

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

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

Client Sample ID: C-22-11 Project: WNUC00901
Sample ID: 522862011 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
Toluene-d8		SW846 8260D VOC "Dry Weight Corrected"		47.1	ug/kg	50.0		102	(81%-120%)		

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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Report Date: October 7, 2020

Company : Westinghouse Electric Company, LLC
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Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-61-1
Sample ID: 522862012
Matrix: Soil
Collect Date: 24-SEP-20 12:19
Receive Date: 30-SEP-20
Collector: Client
Moisture: 12%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.384	1.13	mg/kg	9.95	1	JLD1	10/02/20	0630	2046355	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/30/20	2215	2046352

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: October 7, 2020

Company : Westinghouse Electric Company, LLC
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Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-61-2
Sample ID: 522862013
Matrix: Soil
Collect Date: 24-SEP-20 12:24
Receive Date: 30-SEP-20
Collector: Client
Moisture: 8.92%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	1.06	0.369	1.08	mg/kg	9.88	1	JLD1	10/02/20	0802	2046355	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/30/20	2215	2046352

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: October 7, 2020

Company : Westinghouse Electric Company, LLC
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Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-61-3
Sample ID: 522862014
Matrix: Soil
Collect Date: 24-SEP-20 12:30
Receive Date: 30-SEP-20
Collector: Client
Moisture: 8.13%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.76	0.371	1.09	mg/kg	10.0	1	JLD1	10/02/20	0833	2046355	1
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
1,1,1,2-Tetrachloroethane	U	ND	0.281	0.844	ug/kg	0.775	1	JP1	10/02/20	2040	2047333	2
1,1,1-Trichloroethane	U	ND	0.281	0.844	ug/kg	0.775	1					
1,1,2,2-Tetrachloroethane	U	ND	0.281	0.844	ug/kg	0.775	1					
1,1,2-Trichloroethane	U	ND	0.281	0.844	ug/kg	0.775	1					
1,1-Dichloroethane	U	ND	0.281	0.844	ug/kg	0.775	1					
1,1-Dichloroethylene	U	ND	0.281	0.844	ug/kg	0.775	1					
1,2,3-Trichloropropane	U	ND	0.281	0.844	ug/kg	0.775	1					
1,2,4-Trichlorobenzene	U	ND	0.281	0.844	ug/kg	0.775	1					
1,2-Dibromo-3-chloropropane	U	ND	0.422	0.844	ug/kg	0.775	1					
1,2-Dibromoethane	U	ND	0.281	0.844	ug/kg	0.775	1					
1,2-Dichloroethane	U	ND	0.281	0.844	ug/kg	0.775	1					
1,2-Dichloropropane	U	ND	0.281	0.844	ug/kg	0.775	1					
2-Butanone	U	ND	1.41	4.22	ug/kg	0.775	1					
2-Chloro-1,3-butadiene	U	ND	0.281	0.844	ug/kg	0.775	1					
2-Hexanone	U	ND	1.41	4.22	ug/kg	0.775	1					
4-Methyl-2-pentanone	U	ND	1.41	4.22	ug/kg	0.775	1					
Acetone	J	2.09	1.41	4.22	ug/kg	0.775	1					
Acetonitrile	U	ND	7.03	21.1	ug/kg	0.775	1					
Acrolein	U	ND	1.41	4.22	ug/kg	0.775	1					
Acrylonitrile	U	ND	1.41	4.22	ug/kg	0.775	1					
Allyl chloride	U	ND	1.41	4.22	ug/kg	0.775	1					
Benzene	U	ND	0.281	0.844	ug/kg	0.775	1					
Bromodichloromethane	U	ND	0.281	0.844	ug/kg	0.775	1					
Bromoform	U	ND	0.281	0.844	ug/kg	0.775	1					
Bromomethane	U	ND	0.281	0.844	ug/kg	0.775	1					
Carbon disulfide	U	ND	1.41	4.22	ug/kg	0.775	1					
Carbon tetrachloride	U	ND	0.281	0.844	ug/kg	0.775	1					
Chlorobenzene	U	ND	0.281	0.844	ug/kg	0.775	1					
Chloroethane	U	ND	0.281	0.844	ug/kg	0.775	1					
Chloroform	U	ND	0.281	0.844	ug/kg	0.775	1					
Chloromethane	U	ND	0.281	0.844	ug/kg	0.775	1					
Dibromochloromethane	U	ND	0.281	0.844	ug/kg	0.775	1					
Dibromomethane	U	ND	0.281	0.844	ug/kg	0.775	1					

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Report Date: October 7, 2020

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

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

Client Sample ID: C-61-3 Project: WNUC00901
Sample ID: 522862014 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
Dichlorodifluoromethane	U	ND	0.281	0.844	ug/kg	0.775	1					
Ethyl methacrylate	U	ND	1.41	4.22	ug/kg	0.775	1					
Ethylbenzene	U	ND	0.281	0.844	ug/kg	0.775	1					
Iodomethane	U	ND	1.41	4.22	ug/kg	0.775	1					
Isobutyl alcohol	U	ND	14.1	42.2	ug/kg	0.775	1					
Methacrylonitrile	U	ND	1.41	4.22	ug/kg	0.775	1					
Methyl methacrylate	U	ND	1.41	4.22	ug/kg	0.775	1					
Methylene chloride	U	ND	1.41	4.22	ug/kg	0.775	1					
Pentachloroethane	U	ND	1.41	4.22	ug/kg	0.775	1					
Propionitrile	U	ND	1.41	4.22	ug/kg	0.775	1					
Styrene	U	ND	0.281	0.844	ug/kg	0.775	1					
Tetrachloroethylene	U	ND	0.281	0.844	ug/kg	0.775	1					
Toluene	U	ND	0.281	0.844	ug/kg	0.775	1					
Trichloroethylene	U	ND	0.281	0.844	ug/kg	0.775	1					
Trichlorofluoromethane	U	ND	0.281	0.844	ug/kg	0.775	1					
Vinyl acetate	U	ND	1.41	4.22	ug/kg	0.775	1					
Vinyl chloride	U	ND	0.281	0.844	ug/kg	0.775	1					
Xylenes (total)	U	ND	0.844	2.53	ug/kg	0.775	1					
bis(2-Chloro-1-methylethyl)ether	U	ND	1.41	4.22	ug/kg	0.775	1					
cis-1,3-Dichloropropylene	U	ND	0.281	0.844	ug/kg	0.775	1					
trans-1,2-Dichloroethylene	U	ND	0.281	0.844	ug/kg	0.775	1					
trans-1,3-Dichloropropylene	U	ND	0.281	0.844	ug/kg	0.775	1					
trans-1,4-Dichloro-2-butene	U	ND	1.41	4.22	ug/kg	0.775	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/24/20	1230	2047332
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/30/20	2215	2046352

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 VOC "Dry Weight Corrected"	42.0 ug/kg	50.0	100	(81%-124%)
Bromofluorobenzene	SW846 8260D VOC "Dry Weight Corrected"	39.8 ug/kg	50.0	94	(70%-130%)

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Certificate of Analysis

Report Date: October 7, 2020

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

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

Client Sample ID: C-61-3 Project: WNUC00901
Sample ID: 522862014 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
Toluene-d8		SW846 8260D VOC "Dry Weight Corrected"		42.7	ug/kg	50.0		101	(81%-120%)		

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: October 7, 2020

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

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

Client Sample ID: C-61-4
Sample ID: 522862015
Matrix: Soil
Collect Date: 24-SEP-20 12:37
Receive Date: 30-SEP-20
Collector: Client
Moisture: 7.83%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.356	1.05	mg/kg	9.66	1	LXA2	10/02/20	1701	2046460	1
Metals Analysis-ICP-MS												
SW846 3050B/6020B Isotopic Uranium-234/235/238 "Dry Weight Corrected"												
Uranium-234	U	ND	2.03	10.2	ug/kg	93.6	2	PRB	10/07/20	0235	2046325	2
Uranium-235		14.8	2.03	14.2	ug/kg	93.6	2	PRB	10/07/20	0900	2046325	3
Uranium-238		1370	13.4	40.6	ug/kg	93.6	2					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	SM1	10/01/20	0915	2046324
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	0925	2046459

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
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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Report Date: October 7, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-61-5	Project:	WNUC00901
Sample ID:	522862016	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	24-SEP-20 12:42		
Receive Date:	30-SEP-20		
Collector:	Client		
Moisture:	8.19%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.375	1.10	mg/kg	10.1	1	JLD1	10/02/20	0904	2046355	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/30/20	2215	2046352

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: October 7, 2020

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

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

Client Sample ID: C-64-1
Sample ID: 522862017
Matrix: Soil
Collect Date: 24-SEP-20 11:42
Receive Date: 30-SEP-20
Collector: Client
Moisture: 13%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	1.09	0.392	1.15	mg/kg	10.0	1	JLD1	10/02/20	0935	2046355	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/30/20	2215	2046352

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: October 7, 2020

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

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

Client Sample ID: C-64-2
Sample ID: 522862018
Matrix: Soil
Collect Date: 24-SEP-20 11:47
Receive Date: 30-SEP-20
Collector: Client
Moisture: 12.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	1.07	0.385	1.13	mg/kg	9.95	1	JLD1	10/02/20	1006	2046355	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	CH5	09/30/20	2215	2046352

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: October 7, 2020

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

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

Client Sample ID: C-64-3
Sample ID: 522862019
Matrix: Soil
Collect Date: 24-SEP-20 11:54
Receive Date: 30-SEP-20
Collector: Client
Moisture: 12.6%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.804	0.387	1.14	mg/kg	9.95	1	LXA2	10/02/20	1822	2046460	1
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
1,1,1,2-Tetrachloroethane	U	ND	0.269	0.807	ug/kg	0.705	1	JP1	10/02/20	2105	2047333	2
1,1,1-Trichloroethane	U	ND	0.269	0.807	ug/kg	0.705	1					
1,1,2,2-Tetrachloroethane	U	ND	0.269	0.807	ug/kg	0.705	1					
1,1,2-Trichloroethane	U	ND	0.269	0.807	ug/kg	0.705	1					
1,1-Dichloroethane	U	ND	0.269	0.807	ug/kg	0.705	1					
1,1-Dichloroethylene	U	ND	0.269	0.807	ug/kg	0.705	1					
1,2,3-Trichloropropane	U	ND	0.269	0.807	ug/kg	0.705	1					
1,2,4-Trichlorobenzene	U	ND	0.269	0.807	ug/kg	0.705	1					
1,2-Dibromo-3-chloropropane	U	ND	0.403	0.807	ug/kg	0.705	1					
1,2-Dibromoethane	U	ND	0.269	0.807	ug/kg	0.705	1					
1,2-Dichloroethane	U	ND	0.269	0.807	ug/kg	0.705	1					
1,2-Dichloropropane	U	ND	0.269	0.807	ug/kg	0.705	1					
2-Butanone	J	2.22	1.35	4.03	ug/kg	0.705	1					
2-Chloro-1,3-butadiene	U	ND	0.269	0.807	ug/kg	0.705	1					
2-Hexanone	U	ND	1.35	4.03	ug/kg	0.705	1					
4-Methyl-2-pentanone	U	ND	1.35	4.03	ug/kg	0.705	1					
Acetone		10.3	1.35	4.03	ug/kg	0.705	1					
Acetonitrile	U	ND	6.72	20.2	ug/kg	0.705	1					
Acrolein	U	ND	1.35	4.03	ug/kg	0.705	1					
Acrylonitrile	U	ND	1.35	4.03	ug/kg	0.705	1					
Allyl chloride	U	ND	1.35	4.03	ug/kg	0.705	1					
Benzene	U	ND	0.269	0.807	ug/kg	0.705	1					
Bromodichloromethane	U	ND	0.269	0.807	ug/kg	0.705	1					
Bromoform	U	ND	0.269	0.807	ug/kg	0.705	1					
Bromomethane	U	ND	0.269	0.807	ug/kg	0.705	1					
Carbon disulfide	U	ND	1.35	4.03	ug/kg	0.705	1					
Carbon tetrachloride	U	ND	0.269	0.807	ug/kg	0.705	1					
Chlorobenzene	U	ND	0.269	0.807	ug/kg	0.705	1					
Chloroethane	U	ND	0.269	0.807	ug/kg	0.705	1					
Chloroform	U	ND	0.269	0.807	ug/kg	0.705	1					
Chloromethane	U	ND	0.269	0.807	ug/kg	0.705	1					
Dibromochloromethane	U	ND	0.269	0.807	ug/kg	0.705	1					
Dibromomethane	U	ND	0.269	0.807	ug/kg	0.705	1					

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Report Date: October 7, 2020

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

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

Client Sample ID: C-64-3 Project: WNUC00901
Sample ID: 522862019 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
Volatile Organics											
SW846 8260D VOC "Dry Weight Corrected"											
Dichlorodifluoromethane	U	ND	0.269	0.807	ug/kg	0.705	1				
Ethyl methacrylate	U	ND	1.35	4.03	ug/kg	0.705	1				
Ethylbenzene	U	ND	0.269	0.807	ug/kg	0.705	1				
Iodomethane	U	ND	1.35	4.03	ug/kg	0.705	1				
Isobutyl alcohol	U	ND	13.4	40.3	ug/kg	0.705	1				
Methacrylonitrile	U	ND	1.35	4.03	ug/kg	0.705	1				
Methyl methacrylate	U	ND	1.35	4.03	ug/kg	0.705	1				
Methylene chloride	U	ND	1.35	4.03	ug/kg	0.705	1				
Pentachloroethane	U	ND	1.35	4.03	ug/kg	0.705	1				
Propionitrile	U	ND	1.35	4.03	ug/kg	0.705	1				
Styrene	U	ND	0.269	0.807	ug/kg	0.705	1				
Tetrachloroethylene		1.49	0.269	0.807	ug/kg	0.705	1				
Toluene		1.14	0.269	0.807	ug/kg	0.705	1				
Trichloroethylene	U	ND	0.269	0.807	ug/kg	0.705	1				
Trichlorofluoromethane	U	ND	0.269	0.807	ug/kg	0.705	1				
Vinyl acetate	U	ND	1.35	4.03	ug/kg	0.705	1				
Vinyl chloride	U	ND	0.269	0.807	ug/kg	0.705	1				
Xylenes (total)	U	ND	0.807	2.42	ug/kg	0.705	1				
bis(2-Chloro-1-methylethyl)ether	U	ND	1.35	4.03	ug/kg	0.705	1				
cis-1,3-Dichloropropylene	U	ND	0.269	0.807	ug/kg	0.705	1				
trans-1,2-Dichloroethylene	U	ND	0.269	0.807	ug/kg	0.705	1				
trans-1,3-Dichloropropylene	U	ND	0.269	0.807	ug/kg	0.705	1				
trans-1,4-Dichloro-2-butene	U	ND	1.35	4.03	ug/kg	0.705	1				

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/24/20	1154	2047332
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	0925	2046459

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 VOC "Dry Weight Corrected"	38.5 ug/kg	50.0	96	(81%-124%)
Bromofluorobenzene	SW846 8260D VOC "Dry Weight Corrected"	43.9 ug/kg	50.0	109	(70%-130%)

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

Client Sample ID: C-64-3 Project: WNUC00901
Sample ID: 522862019 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
Toluene-d8		SW846 8260D VOC "Dry Weight Corrected"		42.5	ug/kg	50.0		105	(81%-120%)		

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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Company : Westinghouse Electric Company, LLC
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Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-64-4
Sample ID: 522862020
Matrix: Soil
Collect Date: 24-SEP-20 12:02
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.96%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.25	0.367	1.08	mg/kg	9.71	1	LXA2	10/02/20	1943	2046460	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	0925	2046459

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: October 7, 2020

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

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

Client Sample ID: C-23-1
Sample ID: 522862001
Matrix: Soil
Collect Date: 24-SEP-20 10:07
Receive Date: 30-SEP-20
Collector: Client
Moisture: 8.42%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.54	+/-0.537	0.364	0.500	pCi/g			BXA4	10/05/20	1122	2046417	1
Uranium-235/236		0.164	+/-0.216	0.164	0.500	pCi/g							
Uranium-238		0.863	+/-0.399	0.245	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0841	+/-0.370	0.658	1.00	pCi/g			JJ3	10/06/20	0711	2046351	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1026	2046328

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/Solid "Dry Weight Corrected"			80.2	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			101	(15%-125%)

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

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

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

Client Sample ID: C-23-2
Sample ID: 522862002
Matrix: Soil
Collect Date: 24-SEP-20 10:12
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.63	+/-0.534	0.275	0.500	pCi/g			BXA4	10/05/20	1122	2046417	1
Uranium-235/236		0.213	+/-0.234	0.159	0.500	pCi/g							
Uranium-238		1.00	+/-0.423	0.263	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.108	+/-0.392	0.679	1.00	pCi/g			JJ3	10/06/20	0748	2046351	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1026	2046328

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/Solid "Dry Weight Corrected"			88.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			101	(15%-125%)

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

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

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

Client Sample ID: C-23-3
Sample ID: 522862003
Matrix: Soil
Collect Date: 24-SEP-20 10:19
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.79	+/-0.550	0.356	0.500	pCi/g			BXA4	10/05/20	1122	2046417	1
Uranium-235/236		0.199	+/-0.220	0.149	0.500	pCi/g							
Uranium-238		1.04	+/-0.411	0.193	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0288	+/-0.390	0.688	1.00	pCi/g			JJ3	10/06/20	0826	2046351	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1026	2046328

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/Solid "Dry Weight Corrected"			88.2	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			101	(15%-125%)

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

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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Report Date: October 7, 2020

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

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

Client Sample ID: C-23-4
Sample ID: 522862004
Matrix: Soil
Collect Date: 24-SEP-20 10:24
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.4%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.83	+/-0.583	0.290	0.500	pCi/g			BXA4	10/05/20	1122	2046417	1
Uranium-235/236	U	0.242	+/-0.277	0.346	0.500	pCi/g							
Uranium-238		0.792	+/-0.394	0.280	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.108	+/-0.423	0.733	1.00	pCi/g			JJ3	10/06/20	0903	2046351	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1026	2046328

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/Solid "Dry Weight Corrected"			78.7	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			98.1	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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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Report Date: October 7, 2020

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

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

Client Sample ID: C-22-5
Sample ID: 522862005
Matrix: Soil
Collect Date: 24-SEP-20 10:33
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.9%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.43	+/-0.564	0.394	0.500	pCi/g			BXA4	10/05/20	1122	2046417	1
Uranium-235/236	U	0.129	+/-0.222	0.194	0.500	pCi/g							
Uranium-238		1.71	+/-0.599	0.251	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.285	+/-0.412	0.751	1.00	pCi/g			JJ3	10/06/20	0941	2046351	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1026	2046328

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/Solid "Dry Weight Corrected"			80.7	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			96.1	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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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Report Date: October 7, 2020

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

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

Client Sample ID: C-22-6
Sample ID: 522862006
Matrix: Soil
Collect Date: 24-SEP-20 10:42
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.27	+/-0.469	0.302	0.500	pCi/g			BXA4	10/05/20	1122	2046417	1
Uranium-235/236	U	0.0781	+/-0.179	0.284	0.500	pCi/g							
Uranium-238		1.09	+/-0.433	0.254	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.255	+/-0.381	0.693	1.00	pCi/g			JJ3	10/06/20	1018	2046351	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1026	2046328

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/Solid "Dry Weight Corrected"			85.3	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			99.7	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-22-7
Sample ID: 522862007
Matrix: Soil
Collect Date: 24-SEP-20 10:48
Receive Date: 30-SEP-20
Collector: Client
Moisture: 8.18%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.59	+/-0.510	0.274	0.500	pCi/g			BXA4	10/05/20	1122	2046417	1
Uranium-235/236		0.198	+/-0.218	0.149	0.500	pCi/g							
Uranium-238		0.801	+/-0.360	0.120	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.107	+/-0.396	0.706	1.00	pCi/g			JJ3	10/06/20	1056	2046351	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1026	2046328

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/Solid "Dry Weight Corrected"			87.3	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			98.2	(15%-125%)

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

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: October 7, 2020

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

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

Client Sample ID: C-22-8
Sample ID: 522862008
Matrix: Soil
Collect Date: 24-SEP-20 10:56
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.53%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		2.51	+/-0.668	0.400	0.500	pCi/g			MG1	10/05/20	1122	2047037	1
Uranium-235/236	U	0.279	+/-0.278	0.322	0.500	pCi/g							
Uranium-238		1.18	+/-0.462	0.316	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.387	+/-0.409	0.706	1.00	pCi/g			JJ3	10/06/20	1021	2047076	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/02/20	0946	2047030

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/Solid "Dry Weight Corrected"			66.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			98.1	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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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Report Date: October 7, 2020

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

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

Client Sample ID: C-23-9
Sample ID: 522862009
Matrix: Soil
Collect Date: 24-SEP-20 11:03
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.3%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.93	+/-0.571	0.302	0.500	pCi/g			BXA4	10/05/20	1122	2046417	1
Uranium-235/236	U	0.0390	+/-0.146	0.246	0.500	pCi/g							
Uranium-238		1.10	+/-0.441	0.307	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0657	+/-0.396	0.703	1.00	pCi/g			JJ3	10/06/20	1133	2046351	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1026	2046328

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/Solid "Dry Weight Corrected"			86.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			96.9	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-22-10
Sample ID: 522862010
Matrix: Soil
Collect Date: 24-SEP-20 11:13
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.85	+/-0.612	0.381	0.500	pCi/g			BXA4	10/05/20	1122	2046417	1
Uranium-235/236		0.180	+/-0.237	0.180	0.500	pCi/g							
Uranium-238		0.936	+/-0.438	0.297	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0890	+/-0.415	0.738	1.00	pCi/g			JJ3	10/06/20	1211	2046351	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1026	2046328

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/Solid "Dry Weight Corrected"			84	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			97.4	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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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Report Date: October 7, 2020

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

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

Client Sample ID: C-22-11
Sample ID: 522862011
Matrix: Soil
Collect Date: 24-SEP-20 11:22
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.07%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.60	+/-0.600	0.329	0.500	pCi/g			BXA4	10/05/20	1122	2046417	1
Uranium-235/236	U	0.0515	+/-0.193	0.325	0.500	pCi/g							
Uranium-238		1.11	+/-0.507	0.335	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.00679	+/-0.384	0.676	1.00	pCi/g			JJ3	10/06/20	1248	2046351	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1026	2046328

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/Solid "Dry Weight Corrected"			58.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			97.4	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-61-1
Sample ID: 522862012
Matrix: Soil
Collect Date: 24-SEP-20 12:19
Receive Date: 30-SEP-20
Collector: Client
Moisture: 12%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.77	+/-0.655	0.386	0.500	pCi/g			BXA4	10/05/20	1122	2046417	1
Uranium-235/236	U	0.0554	+/-0.208	0.349	0.500	pCi/g							
Uranium-238		0.870	+/-0.464	0.283	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.0848	+/-0.412	0.716	1.00	pCi/g			JJ3	10/06/20	1326	2046351	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1026	2046328

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/Solid "Dry Weight Corrected"			61.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94.9	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-61-2
Sample ID: 522862013
Matrix: Soil
Collect Date: 24-SEP-20 12:24
Receive Date: 30-SEP-20
Collector: Client
Moisture: 8.92%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.76	+/-0.618	0.370	0.500	pCi/g			BXA4	10/05/20	1122	2046417	1
Uranium-235/236	U	0.0648	+/-0.182	0.194	0.500	pCi/g							
Uranium-238		1.01	+/-0.473	0.320	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.337	+/-0.380	0.699	1.00	pCi/g			JJ3	10/06/20	1403	2046351	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1026	2046328

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/Solid "Dry Weight Corrected"			70.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			99.2	(15%-125%)

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

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: October 7, 2020

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

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

Client Sample ID: C-61-3
Sample ID: 522862014
Matrix: Soil
Collect Date: 24-SEP-20 12:30
Receive Date: 30-SEP-20
Collector: Client
Moisture: 8.13%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		0.662	+/-0.351	0.288	0.500	pCi/g			BXA4	10/05/20	1122	2046417	1
Uranium-235/236	U	0.0395	+/-0.148	0.249	0.500	pCi/g							
Uranium-238		0.957	+/-0.405	0.202	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.143	+/-0.381	0.683	1.00	pCi/g			JJ3	10/06/20	1441	2046351	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1026	2046328

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/Solid "Dry Weight Corrected"			84.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			96.6	(15%-125%)

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

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: October 7, 2020

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

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

Client Sample ID: C-61-4
Sample ID: 522862015
Matrix: Soil
Collect Date: 24-SEP-20 12:37
Receive Date: 30-SEP-20
Collector: Client
Moisture: 7.83%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.15	+/-0.442	0.263	0.500	pCi/g			BXA4	10/05/20	1122	2046417	1
Uranium-235/236		0.305	+/-0.265	0.153	0.500	pCi/g							
Uranium-238		0.670	+/-0.344	0.251	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0257	+/-0.403	0.711	1.00	pCi/g			JJ3	10/06/20	1518	2046351	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1026	2046328

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/Solid "Dry Weight Corrected"			86.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94.2	(15%-125%)

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

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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Report Date: October 7, 2020

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

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

Client Sample ID: C-61-5
Sample ID: 522862016
Matrix: Soil
Collect Date: 24-SEP-20 12:42
Receive Date: 30-SEP-20
Collector: Client
Moisture: 8.19%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.78	+/-0.570	0.334	0.500	pCi/g			BXA4	10/05/20	1122	2046417	1
Uranium-235/236	U	0.0415	+/-0.156	0.262	0.500	pCi/g							
Uranium-238		1.08	+/-0.443	0.245	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0362	+/-0.387	0.685	1.00	pCi/g			JJ3	10/06/20	1556	2046351	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1026	2046328

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/Solid "Dry Weight Corrected"			80.1	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			99.2	(15%-125%)

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

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: October 7, 2020

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

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

Client Sample ID: C-64-1
Sample ID: 522862017
Matrix: Soil
Collect Date: 24-SEP-20 11:42
Receive Date: 30-SEP-20
Collector: Client
Moisture: 13%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.63	+/-0.581	0.449	0.500	pCi/g			BXA4	10/05/20	1122	2046417	1
Uranium-235/236	U	0.0605	+/-0.207	0.383	0.500	pCi/g							
Uranium-238		1.39	+/-0.515	0.261	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0209	+/-0.525	0.923	1.00	pCi/g			JJ3	10/06/20	1633	2046351	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1026	2046328

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/Solid "Dry Weight Corrected"			78	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.5	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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

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

Certificate of Analysis

Report Date: October 7, 2020

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

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

Client Sample ID: C-64-2
Sample ID: 522862018
Matrix: Soil
Collect Date: 24-SEP-20 11:47
Receive Date: 30-SEP-20
Collector: Client
Moisture: 12.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.73	+/-0.584	0.321	0.500	pCi/g			BXA4	10/05/20	1122	2046417	1
Uranium-235/236	U	0.000	+/-0.120	0.179	0.500	pCi/g							
Uranium-238		1.36	+/-0.519	0.294	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.172	+/-0.391	0.703	1.00	pCi/g			JJ3	10/06/20	1711	2046351	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1026	2046328

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/Solid "Dry Weight Corrected"			70.4	(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
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

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

Certificate of Analysis

Report Date: October 7, 2020

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

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

Client Sample ID: C-64-3
Sample ID: 522862019
Matrix: Soil
Collect Date: 24-SEP-20 11:54
Receive Date: 30-SEP-20
Collector: Client
Moisture: 12.6%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		2.23	+/-0.670	0.331	0.500	pCi/g			BXA4	10/05/20	1122	2046417	1
Uranium-235/236	U	0.0615	+/-0.173	0.184	0.500	pCi/g							
Uranium-238		1.24	+/-0.498	0.149	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.214	+/-0.412	0.744	1.00	pCi/g			JJ3	10/06/20	1749	2046351	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1026	2046328

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/Solid "Dry Weight Corrected"			67.4	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			97.5	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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

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

Certificate of Analysis

Report Date: October 7, 2020

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

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

Client Sample ID: C-64-4
Sample ID: 522862020
Matrix: Soil
Collect Date: 24-SEP-20 12:02
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.96%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.30	+/-0.474	0.267	0.500	pCi/g			BXA4	10/05/20	1122	2046417	1
Uranium-235/236	U	0.0520	+/-0.146	0.156	0.500	pCi/g							
Uranium-238		0.779	+/-0.370	0.233	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.259	+/-0.400	0.727	1.00	pCi/g			JJ3	10/06/20	1826	2046351	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1026	2046328

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/Solid "Dry Weight Corrected"			80.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.2	(15%-125%)

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

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

QC Summary

Report Date: October 7, 2020

Westinghouse Electric Company, LLC
PO Drawer R
Columbia, South Carolina

Contact: **Ms. Cynthia Teague**

Workorder: **522862**

Parmname			NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography														
Batch 2046355														
QC1204656386	522862001	DUP												
Fluoride					3.99		1.38	mg/kg	97.2*^		(+/-1.10)	JLD1	10/01/20	23:49
QC1204656384	LCS													
Fluoride			25.2				25.7	mg/kg		102	(90%-110%)		10/01/20	20:13
QC1204656383	MB													
Fluoride						U	ND	mg/kg					10/01/20	19:42
QC1204656388	522862001	MS												
Fluoride			27.4		3.99		12.2	mg/kg		30*	(75%-125%)		10/02/20	00:20
Batch 2046460														
QC1204656688	522862015	DUP												
Fluoride				U	ND	U	ND	mg/kg	N/A			LXA2	10/02/20	17:28
QC1204656689	522862019	DUP												
Fluoride				J	0.804	J	0.850	mg/kg	5.55 ^		(+/-1.13)		10/02/20	18:49
QC1204656687	LCS													
Fluoride			24.8				24.4	mg/kg		98.2	(90%-110%)		10/02/20	16:34
QC1204656686	MB													
Fluoride						U	ND	mg/kg					10/02/20	16:07
QC1204656690	522862015	MS												
Fluoride			26.7	U	ND		7.14	mg/kg		26.7*	(75%-125%)		10/02/20	17:55
QC1204656691	522862019	MS												
Fluoride			27.6	J	0.804		9.09	mg/kg		30.1*	(75%-125%)		10/02/20	19:16

QC Summary

Workorder: **522862**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2047325										
QC1204658487 522862008 DUP										
Fluoride		2.46		2.21	mg/kg	10.6 ^		(+/-1.11)	JLD1	10/06/20 01:25
QC1204658486 LCS										
Fluoride	25.2			25.4	mg/kg		101	(90%-110%)		10/05/20 12:03
QC1204658485 MB										
Fluoride			J	0.756	mg/kg					10/05/20 11:32
QC1204658489 522862008 MS										
Fluoride	27.8	2.46		13.9	mg/kg		41.2 *	(75%-125%)		10/06/20 01:55
Metals Analysis - ICPMS										
Batch 2046325										
QC1204656335 LCS										
Uranium-235	33.8			36.3	ug/kg		107	(80%-120%)	PRB	10/07/20 08:47
Uranium-238	4660			4980	ug/kg		107	(80%-120%)		
QC1204656339 LCS										
Uranium-234	49.5			53.2	ug/kg		108	(80%-120%)		10/07/20 02:25
QC1204656334 MB										
Uranium-234			U	ND	ug/kg					10/07/20 02:23
Uranium-235			U	ND	ug/kg					10/07/20 08:45
Uranium-238			U	ND	ug/kg					
QC1204656336 522862006 MS										
Uranium-235	39.5 J	12.3		53.9	ug/kg		106	(75%-125%)		10/07/20 08:50
Uranium-238	5440	1190		6940	ug/kg		106	(75%-125%)		

QC Summary

Workorder: **522862**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2046325											
QC1204656340 522862006 MS											
Uranium-234	60.9	U	ND		64.5	ug/kg		105	(75%-125%)	PRB	10/07/20 02:28
QC1204656337 522862006 MSD											
Uranium-235	37.8	J	12.3		52.7	ug/kg	2.27	107	(0%-20%)		10/07/20 08:52
Uranium-238	5210		1190		6750	ug/kg	2.76	107	(0%-20%)		
QC1204656341 522862006 MSD											
Uranium-234	56.0	U	ND		59.1	ug/kg	8.74	105	(0%-20%)		10/07/20 02:29
QC1204656338 522862006 SDILT											
Uranium-234		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/07/20 02:31
Uranium-235		J	0.0604	J	0.0112	ug/L	7.28		(0%-20%)		10/07/20 08:55
Uranium-238			5.88		1.14	ug/L	3.42		(0%-20%)		
Volatile-GC/MS											
Batch 2047333											
QC1204658518 LCS											
1,1,1,2-Tetrachloroethane	50.0				49.8	ug/kg		100	(74%-129%)	JP1	10/02/20 15:29
1,1,1-Trichloroethane	50.0				47.5	ug/kg		95	(73%-135%)		
1,1,2,2-Tetrachloroethane	50.0				47.9	ug/kg		96	(73%-122%)		
1,1,2-Trichloroethane	50.0				48.0	ug/kg		96	(75%-120%)		
1,1-Dichloroethane	50.0				47.9	ug/kg		96	(75%-122%)		
1,1-Dichloroethylene	50.0				49.4	ug/kg		99	(71%-130%)		

QC Summary

Workorder: **522862**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2047333											
1,2,3-Trichloropropane	50.0			46.3	ug/kg		93	(73%-123%)	JP1	10/02/20	15:29
1,2,4-Trichlorobenzene	50.0			53.7	ug/kg		107	(69%-130%)			
1,2-Dibromo-3-chloropropane	50.0			48.5	ug/kg		97	(67%-128%)			
1,2-Dibromoethane	50.0			49.2	ug/kg		98	(77%-123%)			
1,2-Dichloroethane	50.0			43.0	ug/kg		86	(72%-121%)			
1,2-Dichloropropane	50.0			48.4	ug/kg		97	(73%-122%)			
2-Butanone	250			216	ug/kg		86	(62%-141%)			
2-Hexanone	250			226	ug/kg		90	(58%-149%)			
4-Methyl-2-pentanone	250			228	ug/kg		91	(65%-123%)			
Acetone	250			205	ug/kg		82	(60%-143%)			
Acetonitrile	1250			1100	ug/kg		88	(54%-120%)			
Benzene	50.0			45.3	ug/kg		91	(73%-122%)			
Bromodichloromethane	50.0			47.4	ug/kg		95	(76%-129%)			
Bromoform	50.0			57.0	ug/kg		114	(69%-131%)			
Bromomethane	50.0			56.4	ug/kg		113	(66%-132%)			

QC Summary

Workorder: **522862**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
Carbon disulfide	250			234	ug/kg		94	(66%-134%)	JP1	10/02/20 15:29
Carbon tetrachloride	50.0			48.4	ug/kg		97	(71%-140%)		
Chlorobenzene	50.0			48.2	ug/kg		96	(73%-120%)		
Chloroethane	50.0			50.9	ug/kg		102	(67%-129%)		
Chloroform	50.0			48.9	ug/kg		98	(75%-123%)		
Chloromethane	50.0			44.7	ug/kg		89	(58%-129%)		
Dibromochloromethane	50.0			53.1	ug/kg		106	(75%-129%)		
Dibromomethane	50.0			46.3	ug/kg		93	(76%-121%)		
Dichlorodifluoromethane	50.0			37.7	ug/kg		75	(43%-158%)		
Ethylbenzene	50.0			46.2	ug/kg		92	(72%-123%)		
Iodomethane	250			250	ug/kg		100	(69%-126%)		
Methylene chloride	50.0			43.4	ug/kg		87	(68%-124%)		
Styrene	50.0			48.5	ug/kg		97	(72%-127%)		
Tetrachloroethylene	50.0			51.3	ug/kg		103	(68%-129%)		
Toluene	50.0			45.4	ug/kg		91	(72%-120%)		

QC Summary

Workorder: 522862

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2047333											
Trichloroethylene	50.0			45.5	ug/kg		91	(72%-127%)	JP1	10/02/20	15:29
Trichlorofluoromethane	50.0			45.1	ug/kg		90	(69%-135%)			
Vinyl acetate	250			243	ug/kg		97	(59%-139%)			
Vinyl chloride	50.0			46.5	ug/kg		93	(67%-135%)			
Xylenes (total)	150			141	ug/kg		94	(66%-126%)			
cis-1,3-Dichloropropylene	50.0			48.7	ug/kg		97	(78%-129%)			
trans-1,2-Dichloroethylene	50.0			49.0	ug/kg		98	(74%-124%)			
trans-1,3-Dichloropropylene	50.0			48.6	ug/kg		97	(78%-127%)			
**1,2-Dichloroethane-d4	50.0			50.4	ug/L		101	(81%-124%)			
**Bromofluorobenzene	50.0			49.9	ug/L		100	(70%-130%)			
**Toluene-d8	50.0			51.7	ug/L		103	(81%-120%)			
QC1204658519 LCS											
1,1,1,2-Tetrachloroethane	50.0			47.3	ug/kg		95	(74%-129%)		10/05/20	18:46
1,1,1-Trichloroethane	50.0			45.3	ug/kg		91	(73%-135%)			
1,1,2,2-Tetrachloroethane	50.0			48.1	ug/kg		96	(73%-122%)			
1,1,2-Trichloroethane	50.0			47.3	ug/kg		95	(75%-120%)			

QC Summary

Workorder: **522862**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
1,1-Dichloroethane	50.0			45.8	ug/kg		92	(75%-122%)	JP1	10/05/20 18:46
1,1-Dichloroethylene	50.0			46.4	ug/kg		93	(71%-130%)		
1,2,3-Trichloropropane	50.0			47.3	ug/kg		95	(73%-123%)		
1,2,4-Trichlorobenzene	50.0			51.1	ug/kg		102	(69%-130%)		
1,2-Dibromo-3-chloropropane	50.0			50.8	ug/kg		102	(67%-128%)		
1,2-Dibromoethane	50.0			48.7	ug/kg		97	(77%-123%)		
1,2-Dichloroethane	50.0			42.7	ug/kg		85	(72%-121%)		
1,2-Dichloropropane	50.0			47.2	ug/kg		94	(73%-122%)		
2-Butanone	250			230	ug/kg		92	(62%-141%)		
2-Hexanone	250			244	ug/kg		98	(58%-149%)		
4-Methyl-2-pentanone	250			239	ug/kg		96	(65%-123%)		
Acetone	250			214	ug/kg		86	(60%-143%)		
Acetonitrile	1250			1130	ug/kg		91	(54%-120%)		
Benzene	50.0			43.4	ug/kg		87	(73%-122%)		
Bromodichloromethane	50.0			46.4	ug/kg		93	(76%-129%)		

QC Summary

Workorder: **522862**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
Bromoform	50.0			56.2	ug/kg		112	(69%-131%)	JP1	10/05/20 18:46
Bromomethane	50.0			66.6	ug/kg		133*	(66%-132%)		
Carbon disulfide	250			219	ug/kg		88	(66%-134%)		
Carbon tetrachloride	50.0			46.0	ug/kg		92	(71%-140%)		
Chlorobenzene	50.0			45.9	ug/kg		92	(73%-120%)		
Chloroethane	50.0			59.0	ug/kg		118	(67%-129%)		
Chloroform	50.0			47.3	ug/kg		95	(75%-123%)		
Chloromethane	50.0			55.0	ug/kg		110	(58%-129%)		
Dibromochloromethane	50.0			51.6	ug/kg		103	(75%-129%)		
Dibromomethane	50.0			46.0	ug/kg		92	(76%-121%)		
Dichlorodifluoromethane	50.0			54.7	ug/kg		109	(43%-158%)		
Ethylbenzene	50.0			43.8	ug/kg		88	(72%-123%)		
Iodomethane	250			237	ug/kg		95	(69%-126%)		
Methylene chloride	50.0			42.5	ug/kg		85	(68%-124%)		
Styrene	50.0			46.4	ug/kg		93	(72%-127%)		

QC Summary

Workorder: 522862

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
Tetrachloroethylene	50.0			48.1	ug/kg		96	(68%-129%)	JP1	10/05/20 18:46
Toluene	50.0			42.8	ug/kg		86	(72%-120%)		
Trichloroethylene	50.0			43.9	ug/kg		88	(72%-127%)		
Trichlorofluoromethane	50.0			52.4	ug/kg		105	(69%-135%)		
Vinyl acetate	250			284	ug/kg		114	(59%-139%)		
Vinyl chloride	50.0			56.2	ug/kg		112	(67%-135%)		
Xylenes (total)	150			133	ug/kg		89	(66%-126%)		
cis-1,3-Dichloropropylene	50.0			48.1	ug/kg		96	(78%-129%)		
trans-1,2-Dichloroethylene	50.0			46.8	ug/kg		94	(74%-124%)		
trans-1,3-Dichloropropylene	50.0			47.3	ug/kg		95	(78%-127%)		
**1,2-Dichloroethane-d4	50.0			51.8	ug/L		104	(81%-124%)		
**Bromofluorobenzene	50.0			48.6	ug/L		97	(70%-130%)		
**Toluene-d8	50.0			50.9	ug/L		102	(81%-120%)		
QC1204658514 MB										
1,1,1,2-Tetrachloroethane			U	ND	ug/kg					10/02/20 16:47
1,1,1-Trichloroethane			U	ND	ug/kg					

QC Summary

Workorder: **522862**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
1,1,2,2-Tetrachloroethane			U	ND	ug/kg				JP1	10/02/20 16:47
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-Trichloropropane			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-Dichloroethane			U	ND	ug/kg					
1,2-Dichloropropane			U	ND	ug/kg					
2-Butanone			U	ND	ug/kg					
2-Chloro-1,3-butadiene			U	ND	ug/kg					
2-Hexanone			U	ND	ug/kg					
4-Methyl-2-pentanone			U	ND	ug/kg					
Acetone			U	ND	ug/kg					

QC Summary

Workorder: **522862**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
Acetonitrile			U	ND	ug/kg				JP1	10/02/20 16:47
Acrolein			U	ND	ug/kg					
Acrylonitrile			U	ND	ug/kg					
Allyl chloride			U	ND	ug/kg					
Benzene			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					
Chlorobenzene			U	ND	ug/kg					
Chloroethane			U	ND	ug/kg					
Chloroform			U	ND	ug/kg					
Chloromethane			U	ND	ug/kg					
Dibromochloromethane			U	ND	ug/kg					

QC Summary

Workorder: **522862**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
Dibromomethane			U	ND	ug/kg				JP1	10/02/20 16:47
Dichlorodifluoromethane			U	ND	ug/kg					
Ethyl methacrylate			U	ND	ug/kg					
Ethylbenzene			U	ND	ug/kg					
Iodomethane			U	ND	ug/kg					
Isobutyl alcohol			U	ND	ug/kg					
Methacrylonitrile			U	ND	ug/kg					
Methyl methacrylate			U	ND	ug/kg					
Methylene chloride			U	ND	ug/kg					
Pentachloroethane			U	ND	ug/kg					
Propionitrile			U	ND	ug/kg					
Styrene			U	ND	ug/kg					
Tetrachloroethylene			U	ND	ug/kg					
Toluene			U	ND	ug/kg					
Trichloroethylene			U	ND	ug/kg					

QC Summary

Workorder: 522862

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
Trichlorofluoromethane			U	ND	ug/kg				JP1	10/02/20 16:47
Vinyl acetate			U	ND	ug/kg					
Vinyl chloride			U	ND	ug/kg					
Xylenes (total)			U	ND	ug/kg					
bis(2-Chloro-1-methylethyl)ether			U	ND	ug/kg					
cis-1,3-Dichloropropylene			U	ND	ug/kg					
trans-1,2-Dichloroethylene			U	ND	ug/kg					
trans-1,3-Dichloropropylene			U	ND	ug/kg					
trans-1,4-Dichloro-2-butene			U	ND	ug/kg					
**1,2-Dichloroethane-d4	50.0			48.9	ug/L		98	(81%-124%)		
**Bromofluorobenzene	50.0			47.9	ug/L		96	(70%-130%)		
**Toluene-d8	50.0			50.9	ug/L		102	(81%-120%)		
QC1204658515 MB										
1,1,1,2-Tetrachloroethane			U	ND	ug/kg					10/05/20 20:04
1,1,1-Trichloroethane			U	ND	ug/kg					
1,1,2,2-Tetrachloroethane			U	ND	ug/kg					

QC Summary

Workorder: **522862**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2047333											
1,1,2-Trichloroethane			U	ND	ug/kg				JP1	10/05/20	20:04
1,1-Dichloroethane			U	ND	ug/kg						
1,1-Dichloroethylene			U	ND	ug/kg						
1,2,3-Trichloropropane			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-Dichloroethane			U	ND	ug/kg						
1,2-Dichloropropane			U	ND	ug/kg						
2-Butanone			U	ND	ug/kg						
2-Chloro-1,3-butadiene			U	ND	ug/kg						
2-Hexanone			U	ND	ug/kg						
4-Methyl-2-pentanone			U	ND	ug/kg						
Acetone			U	ND	ug/kg						
Acetonitrile			U	ND	ug/kg						

QC Summary

Workorder: **522862**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
Acrolein			U	ND	ug/kg				JP1	10/05/20 20:04
Acrylonitrile			U	ND	ug/kg					
Allyl chloride			U	ND	ug/kg					
Benzene			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					
Chlorobenzene			U	ND	ug/kg					
Chloroethane			U	ND	ug/kg					
Chloroform			U	ND	ug/kg					
Chloromethane			U	ND	ug/kg					
Dibromochloromethane			U	ND	ug/kg					
Dibromomethane			U	ND	ug/kg					

QC Summary

Workorder: **522862**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
Dichlorodifluoromethane			U	ND	ug/kg				JP1	10/05/20 20:04
Ethyl methacrylate			U	ND	ug/kg					
Ethylbenzene			U	ND	ug/kg					
Iodomethane			U	ND	ug/kg					
Isobutyl alcohol			U	ND	ug/kg					
Methacrylonitrile			U	ND	ug/kg					
Methyl methacrylate			U	ND	ug/kg					
Methylene chloride			U	ND	ug/kg					
Pentachloroethane			U	ND	ug/kg					
Propionitrile			U	ND	ug/kg					
Styrene			U	ND	ug/kg					
Tetrachloroethylene			U	ND	ug/kg					
Toluene			U	ND	ug/kg					
Trichloroethylene			U	ND	ug/kg					
Trichlorofluoromethane			U	ND	ug/kg					

QC Summary

Workorder: 522862

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
Vinyl acetate			U	ND	ug/kg				JP1	10/05/20 20:04
Vinyl chloride			U	ND	ug/kg					
Xylenes (total)			U	ND	ug/kg					
bis(2-Chloro-1-methylethyl)ether			U	ND	ug/kg					
cis-1,3-Dichloropropylene			U	ND	ug/kg					
trans-1,2-Dichloroethylene			U	ND	ug/kg					
trans-1,3-Dichloropropylene			U	ND	ug/kg					
trans-1,4-Dichloro-2-butene			U	ND	ug/kg					
**1,2-Dichloroethane-d4	50.0			50.7	ug/L		101	(81%-124%)		
**Bromofluorobenzene	50.0			47.1	ug/L		94	(70%-130%)		
**Toluene-d8	50.0			51.0	ug/L		102	(81%-120%)		
QC1204658521 522197001 PS										
1,1,1,2-Tetrachloroethane	50.0	U	ND	42.2	ug/L		84	(55%-133%)		10/06/20 02:57
1,1,1-Trichloroethane	50.0	U	ND	42.8	ug/L		86	(65%-137%)		
1,1,2,2-Tetrachloroethane	50.0	U	ND	43.1	ug/L		86	(60%-133%)		
1,1,2-Trichloroethane	50.0	U	ND	43.1	ug/L		86	(46%-136%)		

QC Summary

Workorder: **522862**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2047333											
1,1-Dichloroethane	50.0	U	ND		42.8	ug/L		86	(65%-126%)	JP1	10/06/20 02:57
1,1-Dichloroethylene	50.0	U	ND		41.8	ug/L		84	(57%-138%)		
1,2,3-Trichloropropane	50.0	U	ND		42.7	ug/L		85	(63%-132%)		
1,2,4-Trichlorobenzene	50.0	U	ND		41.6	ug/L		83	(38%-150%)		
1,2-Dibromo-3-chloropropane	50.0	U	ND		47.1	ug/L		94	(47%-135%)		
1,2-Dibromoethane	50.0	U	ND		43.0	ug/L		86	(54%-134%)		
1,2-Dichloroethane	50.0	U	ND		38.9	ug/L		78	(62%-125%)		
1,2-Dichloropropane	50.0	U	ND		44.4	ug/L		89	(58%-127%)		
2-Butanone	250	J	4.54		205	ug/L		80	(40%-147%)		
2-Hexanone	250	U	ND		210	ug/L		84	(28%-152%)		
4-Methyl-2-pentanone	250	U	ND		210	ug/L		84	(47%-135%)		
Acetone	250	U	ND		171	ug/L		68	(30%-151%)		
Acetonitrile	1250	U	ND		1010	ug/L		81	(36%-141%)		
Benzene	50.0	U	ND		40.4	ug/L		81	(56%-129%)		
Bromodichloromethane	50.0	U	ND		43.3	ug/L		87	(58%-135%)		

QC Summary

Workorder: **522862**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2047333											
Bromoform	50.0	U	ND		49.8	ug/L		100	(56%-138%)	JP1	10/06/20 02:57
Bromomethane	50.0	U	ND		23.9	ug/L		48	(30%-135%)		
Carbon disulfide	250	U	ND		199	ug/L		80	(51%-145%)		
Carbon tetrachloride	50.0	U	ND		43.5	ug/L		87	(53%-143%)		
Chlorobenzene	50.0	U	ND		39.1	ug/L		78	(48%-127%)		
Chloroethane	50.0	U	ND		61.8	ug/L		124	(45%-130%)		
Chloroform	50.0	U	ND		43.8	ug/L		88	(66%-125%)		
Chloromethane	50.0	U	ND		61.6	ug/L		123	(42%-150%)		
Dibromochloromethane	50.0	U	ND		46.4	ug/L		93	(53%-138%)		
Dibromomethane	50.0	U	ND		42.0	ug/L		84	(62%-124%)		
Dichlorodifluoromethane	50.0	U	ND		62.7	ug/L		125	(40%-142%)		
Ethylbenzene	50.0	U	ND		36.8	ug/L		74	(45%-132%)		
Iodomethane	250	U	ND		207	ug/L		83	(57%-135%)		
Methylene chloride	50.0	U	ND		38.6	ug/L		77	(60%-127%)		
Styrene	50.0	U	ND		38.4	ug/L		77	(39%-137%)		

QC Summary

Workorder: **522862**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2047333											
Tetrachloroethylene	50.0	J	0.390		41.7	ug/L		83	(51%-138%)	JP1	10/06/20 02:57
Toluene	50.0	J	0.380		38.2	ug/L		76	(56%-132%)		
Trichloroethylene	50.0	U	ND		39.9	ug/L		80	(56%-136%)		
Trichlorofluoromethane	50.0		7.96		82.9	ug/L		150*	(55%-135%)		
Vinyl acetate	250	U	ND		208	ug/L		83	(45%-139%)		
Vinyl chloride	50.0	U	ND		60.9	ug/L		122	(50%-145%)		
Xylenes (total)	150	J	1.30		112	ug/L		74	(38%-136%)		
cis-1,3-Dichloropropylene	50.0	U	ND		42.6	ug/L		85	(47%-139%)		
trans-1,2-Dichloroethylene	50.0	U	ND		41.7	ug/L		83	(57%-129%)		
trans-1,3-Dichloropropylene	50.0	U	ND		40.9	ug/L		82	(48%-138%)		
**1,2-Dichloroethane-d4	50.0		49.6		49.9	ug/L		100	(81%-124%)		
**Bromofluorobenzene	50.0		47.7		49.6	ug/L		99	(70%-130%)		
**Toluene-d8	50.0		51.6		51.9	ug/L		104	(81%-120%)		
QC1204658522 522197001 PSD											
1,1,1,2-Tetrachloroethane	50.0	U	ND		42.2	ug/L	0	84	(0%-20%)		10/06/20 03:22
1,1,1-Trichloroethane	50.0	U	ND		44.9	ug/L	5	90	(0%-20%)		

QC Summary

Workorder: **522862**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2047333											
1,1,2,2-Tetrachloroethane	50.0	U	ND		44.7	ug/L	4	89	(0%-20%)	JP1	10/06/20 03:22
1,1,2-Trichloroethane	50.0	U	ND		44.0	ug/L	2	88	(0%-20%)		
1,1-Dichloroethane	50.0	U	ND		43.7	ug/L	2	87	(0%-20%)		
1,1-Dichloroethylene	50.0	U	ND		43.9	ug/L	5	88	(0%-20%)		
1,2,3-Trichloropropane	50.0	U	ND		44.5	ug/L	4	89	(0%-20%)		
1,2,4-Trichlorobenzene	50.0	U	ND		43.5	ug/L	4	87	(0%-20%)		
1,2-Dibromo-3-chloropropane	50.0	U	ND		51.6	ug/L	9	103	(0%-20%)		
1,2-Dibromoethane	50.0	U	ND		44.4	ug/L	3	89	(0%-20%)		
1,2-Dichloroethane	50.0	U	ND		40.4	ug/L	4	81	(0%-20%)		
1,2-Dichloropropane	50.0	U	ND		46.1	ug/L	4	92	(0%-20%)		
2-Butanone	250	J	4.54		221	ug/L	7	86	(0%-20%)		
2-Hexanone	250	U	ND		223	ug/L	6	89	(0%-20%)		
4-Methyl-2-pentanone	250	U	ND		220	ug/L	5	88	(0%-20%)		
Acetone	250	U	ND		175	ug/L	2	70	(0%-20%)		
Acetonitrile	1250	U	ND		966	ug/L	5	77	(0%-20%)		

QC Summary

Workorder: **522862**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2047333											
Benzene	50.0	U	ND		41.4	ug/L	2	83	(0%-20%)	JP1	10/06/20 03:22
Bromodichloromethane	50.0	U	ND		45.1	ug/L	4	90	(0%-20%)		
Bromoform	50.0	U	ND		52.8	ug/L	6	106	(0%-20%)		
Bromomethane	50.0	U	ND		48.2	ug/L	67*	96	(0%-20%)		
Carbon disulfide	250	U	ND		206	ug/L	3	82	(0%-20%)		
Carbon tetrachloride	50.0	U	ND		45.5	ug/L	5	91	(0%-20%)		
Chlorobenzene	50.0	U	ND		38.7	ug/L	1	77	(0%-20%)		
Chloroethane	50.0	U	ND		57.8	ug/L	7	116	(0%-20%)		
Chloroform	50.0	U	ND		45.0	ug/L	3	90	(0%-20%)		
Chloromethane	50.0	U	ND		61.1	ug/L	1	122	(0%-20%)		
Dibromochloromethane	50.0	U	ND		48.4	ug/L	4	97	(0%-20%)		
Dibromomethane	50.0	U	ND		43.7	ug/L	4	87	(0%-20%)		
Dichlorodifluoromethane	50.0	U	ND		64.6	ug/L	3	129	(0%-20%)		
Ethylbenzene	50.0	U	ND		35.9	ug/L	2	72	(0%-20%)		
Iodomethane	250	U	ND		216	ug/L	4	87	(0%-20%)		

QC Summary

Workorder: **522862**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2047333											
Methylene chloride	50.0	U	ND		39.8	ug/L	3	80	(0%-20%)	JP1	10/06/20 03:22
Styrene	50.0	U	ND		38.4	ug/L	0	77	(0%-20%)		
Tetrachloroethylene	50.0	J	0.390		41.1	ug/L	1	81	(0%-20%)		
Toluene	50.0	J	0.380		38.0	ug/L	0	75	(0%-20%)		
Trichloroethylene	50.0	U	ND		40.8	ug/L	2	82	(0%-20%)		
Trichlorofluoromethane	50.0		7.96		81.6	ug/L	2	147*	(0%-20%)		
Vinyl acetate	250	U	ND		220	ug/L	5	88	(0%-20%)		
Vinyl chloride	50.0	U	ND		61.3	ug/L	1	123	(0%-20%)		
Xylenes (total)	150	J	1.30		111	ug/L	1	73	(0%-20%)		
cis-1,3-Dichloropropylene	50.0	U	ND		44.1	ug/L	4	88	(0%-20%)		
trans-1,2-Dichloroethylene	50.0	U	ND		42.4	ug/L	2	85	(0%-20%)		
trans-1,3-Dichloropropylene	50.0	U	ND		41.8	ug/L	2	84	(0%-20%)		
**1,2-Dichloroethane-d4	50.0		49.6		49.8	ug/L		100	(81%-124%)		
**Bromofluorobenzene	50.0		47.7		48.8	ug/L		98	(70%-130%)		
**Toluene-d8	50.0		51.6		50.3	ug/L		101	(81%-120%)		

Notes:

QC Summary

Workorder: 522862

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

The Qualifiers in this report are defined as follows:

**	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.

QC Summary

Workorder: **522862**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

^ 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.

QC Summary

Report Date: October 7, 2020

Westinghouse Electric Company, LLC
PO Drawer R
Columbia, South Carolina

Contact: **Ms. Cynthia Teague**

Workorder: **522862**

Parmname			NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography														
Batch 2046355														
QC1204656386	522862001	DUP												
Fluoride					3.99		1.38	mg/kg	97.2*^		(+/-1.10)	JLD1	10/01/20	23:49
QC1204656384	LCS													
Fluoride			25.2				25.7	mg/kg		102	(90%-110%)		10/01/20	20:13
QC1204656383	MB													
Fluoride						U	0.000	mg/kg					10/01/20	19:42
QC1204656388	522862001	MS												
Fluoride			27.4		3.99		12.2	mg/kg		30*	(75%-125%)		10/02/20	00:20
Batch 2046460														
QC1204656688	522862015	DUP												
Fluoride				U	0.000	U	0.000	mg/kg	N/A			LXA2	10/02/20	17:28
QC1204656689	522862019	DUP												
Fluoride				J	0.804	J	0.850	mg/kg	5.55 ^		(+/-1.13)		10/02/20	18:49
QC1204656687	LCS													
Fluoride			24.8				24.4	mg/kg		98.2	(90%-110%)		10/02/20	16:34
QC1204656686	MB													
Fluoride						U	0.000	mg/kg					10/02/20	16:07
QC1204656690	522862015	MS												
Fluoride			26.7	U	0.000		7.14	mg/kg		26.7*	(75%-125%)		10/02/20	17:55
QC1204656691	522862019	MS												
Fluoride			27.6	J	0.804		9.09	mg/kg		30.1*	(75%-125%)		10/02/20	19:16

QC Summary

Workorder: **522862**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2047325										
QC1204658487 522862008 DUP										
Fluoride		2.46		2.21	mg/kg	10.6 ^		(+/-1.11)	JLD1	10/06/20 01:25
QC1204658486 LCS										
Fluoride	25.2			25.4	mg/kg		101	(90%-110%)		10/05/20 12:03
QC1204658485 MB										
Fluoride			J	0.756	mg/kg					10/05/20 11:32
QC1204658489 522862008 MS										
Fluoride	27.8	2.46		13.9	mg/kg		41.2 *	(75%-125%)		10/06/20 01:55
Rad Alpha Spec										
Batch 2046417										
QC1204656558 522862001 DUP										
Uranium-233/234		1.54		1.15	pCi/g	28.9		(0% - 100%)	BXA4	10/05/20 11:22
Uranium-235/236		0.164		0.223	pCi/g			(0% - 100%)		
Uranium-238		0.863		1.29	pCi/g	40*		(0%-20%)		
QC1204656559 LCS										
Uranium-233/234				11.3	pCi/g					10/05/20 11:22
Uranium-235/236				0.588	pCi/g					
Uranium-238	11.9			11.4	pCi/g		96.4	(75%-125%)		
QC1204656557 MB										
Uranium-233/234			U	0.0354	pCi/g					10/05/20 11:22
Uranium-235/236				0.136	pCi/g					

QC Summary

Workorder: **522862**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Alpha Spec										
Batch 2046417										
Uranium-238			U	0.00147	pCi/g				BXA4	10/05/20 11:22
Batch 2047037										
QC1204657949 522862008 DUP										
Uranium-233/234		2.51		1.82	pCi/g	32*		(0%-20%)	MG1	10/05/20 11:22
Uranium-235/236	U	0.279	U	0.0335	pCi/g	N/A		N/A		
Uranium-238		1.18		1.24	pCi/g	5.19		(0% - 100%)		
QC1204657950 LCS										
Uranium-233/234				13.5	pCi/g					10/05/20 11:22
Uranium-235/236				1.23	pCi/g					
Uranium-238	12.4			13.0	pCi/g		105	(75%-125%)		
QC1204657948 MB										
Uranium-233/234			U	0.0418	pCi/g					10/05/20 11:22
Uranium-235/236			U	-0.0238	pCi/g					
Uranium-238			U	0.0321	pCi/g					
Rad Liquid Scintillation										
Batch 2046351										
QC1204656374 522862001 DUP										
Technetium-99	U	-0.0841	U	-0.339	pCi/g	N/A		N/A	JJ3	10/06/20 19:41
QC1204656375 LCS										
Technetium-99	29.6			27.4	pCi/g		92.6	(75%-125%)		10/06/20 20:19

QC Summary

Workorder: **522862**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation										
Batch 2046351										
QC1204656373 MB										
Technetium-99			U	-0.172	pCi/g				JJ3	10/06/20 19:04
Batch 2047076										
QC1204658045 522862008 DUP										
Technetium-99	U	-0.387	U	-0.207	pCi/g	N/A		N/A	JJ3	10/06/20 22:52
QC1204658046 LCS										
Technetium-99	30.4			27.8	pCi/g		91.4	(75%-125%)		10/07/20 00:54
QC1204658044 MB										
Technetium-99			U	-0.0512	pCi/g					10/06/20 20:47

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.
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.

QC Summary

Workorder: **522862**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

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 #: 522862

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: 2047333

Preparation Method: SW846 5035
Preparation Procedure: GL-OA-E-039 REV# 13
Preparation Batch: 2047332

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

GEL Sample ID#	Client Sample Identification
522862004	C-23-4
522862005	C-22-5
522862009	C-23-9
522862010	C-22-10
522862011	C-22-11
522862014	C-61-3
522862019	C-64-3
1204658514	Method Blank (MB)
1204658515	Method Blank (MB)
1204658518	Laboratory Control Sample (LCS)
1204658519	Laboratory Control Sample (LCS)
1204658521	522197001(NonSDG) Post Spike (PS)
1204658522	522197001(NonSDG) Post Spike Duplicate (PSD)

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

Laboratory Control Sample (LCS) Recovery
The LCS/and or LCSD (See Below) recovery was not within the acceptance limits for all analytes. The unacceptable analyte was not detected in the samples associated with the laboratory control sample. Therefore, the data were reported.

Sample	Analyte	Value
1204658519 (LCS)	Bromomethane	133* (66%-132%)

Matrix Spike/Matrix Spike Duplicate Recovery Statement
The spike and/or spike duplicate (See Below) recoveries were not all within the acceptance limits. The recoveries were similar. It is believed possible matrix interference has been demonstrated.

Sample	Analyte	Value
1204658521 (Non SDG 522197001PS)	Trichlorofluoromethane	150* (55%-135%)
1204658522 (Non SDG 522197001PSD)	Trichlorofluoromethane	147* (55%-135%)

Relative Percent Difference (RPD) Statement
The RPD between the matrix spike pair (See Below) were not all within the acceptance limits. The unacceptable RPD may be attributed to matrix interference and/or sample non-homogeneity.

Sample	Analyte	Value
1204658521PS and 1204658522PSD (Non SDG 522197001)	Bromomethane	RPD 67* (0%-20%)

Technical Information

Sample Dilutions/Methanol Dilutions
Samples were analyzed using a methanol dilution extraction procedure because the sample matrices were not amenable to more concentrated analyses.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3050B/6020B
Analytical Procedure: GL-MA-E-014 REV# 34
Analytical Batch: 2046325

Preparation Method: SW846 3050B
Preparation Procedure: GL-MA-E-009 REV# 29
Preparation Batch: 2046324

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

GEL Sample ID#	Client Sample Identification
522862006	C-22-6
522862015	C-61-4
1204656334	Method Blank (MB)**ICP-MS**
1204656335	Laboratory Control Sample (LCS)
1204656339	Laboratory Control Sample (LCS)
1204656338	522862006(C-22-6L) Serial Dilution (SD)
1204656336	522862006(C-22-6S) Matrix Spike (MS)
1204656340	522862006(C-22-6S) Matrix Spike (MS)
1204656337	522862006(C-22-6SD) Matrix Spike Duplicate (MSD)
1204656341	522862006(C-22-6SD) Matrix Spike Duplicate (MSD)

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.

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	522862	
	006	015
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: 2046355 and 2046352

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

GEL Sample ID#	Client Sample Identification
522862001	C-23-1
522862002	C-23-2
522862003	C-23-3
522862004	C-23-4
522862005	C-22-5
522862006	C-22-6
522862007	C-22-7
522862009	C-23-9
522862010	C-22-10
522862011	C-22-11
522862012	C-61-1

522862013	C-61-2
522862014	C-61-3
522862016	C-61-5
522862017	C-64-1
522862018	C-64-2
1204656383	Method Blank (MB)
1204656384	Laboratory Control Sample (LCS)
1204656386	522862001(C-23-1) Sample Duplicate (DUP)
1204656388	522862001(C-23-1) 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	1204656388 (C-23-1MS)	30* (75%-125%)

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Fluoride	1204656386 (C-23-1DUP)	abs(1.38 - 3.99)* (+/-1.1 mg/kg)

Product: **Ion Chromatography**
Analytical Method: SW846 9056A
Analytical Procedure: GL-GC-E-086 REV# 28
Analytical Batches: 2046460 and 2046459

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

GEL Sample ID#	Client Sample Identification
522862015	C-61-4
522862019	C-64-3
522862020	C-64-4
1204656686	Method Blank (MB)
1204656687	Laboratory Control Sample (LCS)
1204656688	522862015(C-61-4) Sample Duplicate (DUP)

1204656689	522862019(C-64-3) Sample Duplicate (DUP)
1204656690	522862015(C-61-4) Matrix Spike (MS)
1204656691	522862019(C-64-3) 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	1204656690 (C-61-4MS)	26.7* (75%-125%)
	1204656691 (C-64-3MS)	30.1* (75%-125%)

Product: **Ion Chromatography**
Analytical Method: SW846 9056A
Analytical Procedure: GL-GC-E-086 REV# 28
Analytical Batches: 2047325 and 2047324

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

GEL Sample ID#	Client Sample Identification
522862008	C-22-8
1204658485	Method Blank (MB)
1204658486	Laboratory Control Sample (LCS)
1204658487	522862008(C-22-8) Sample Duplicate (DUP)
1204658489	522862008(C-22-8) 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	1204658489 (C-22-8MS)	41.2* (75%-125%)

Miscellaneous Information

Manual Integrations
Sample 1204658487 (C-22-8DUP) was manually integrated to correctly position the baseline as set in the calibration standards.

Radiochemistry

Product: **Alphaspec U, Soil/Veg/Solid**
Analytical Method: DOE EML HASL-300, U-02-RC Modified
Analytical Procedure: GL-RAD-A-011 REV# 28
Analytical Batch: 2046417

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2046328

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

GEL Sample ID#	Client Sample Identification
522862001	C-23-1
522862002	C-23-2
522862003	C-23-3
522862004	C-23-4
522862005	C-22-5
522862006	C-22-6
522862007	C-22-7
522862009	C-23-9
522862010	C-22-10
522862011	C-22-11
522862012	C-61-1
522862013	C-61-2
522862014	C-61-3
522862015	C-61-4
522862016	C-61-5
522862017	C-64-1
522862018	C-64-2
522862019	C-64-3
522862020	C-64-4
1204656557	Method Blank (MB)
1204656558	522862001(C-23-1) Sample Duplicate (DUP)
1204656559	Laboratory Control Sample (LCS)

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

Method Blank Criteria
The blank result is equal to the MDC but less than the required detection limit.

Sample	Analyte	Value
1204656557 (MB)	Uranium-235/236	Result: 0.136 pCi/g = MDA: 0.136 <= RDL: 0.500 pCi/g

Duplication Criteria between QC Sample and Duplicate Sample
The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1204656558 (C-23-1DUP)	Uranium-238	RPD 40* (0.00%-20.00%) RER 1.26 (0-3)

Miscellaneous Information

Manual Integration
Manual integration of alpha spectroscopy spectra 522862010 (C-22-10) was performed to fully separate counts in Regions of Interest which would have been biased.

Additional Comments
The tracer peak centroid for sample 522862010 (C-22-10) is greater than 50 keV from the expected library energy value for the tracer; however, the tracer yield requirement was met and the tracer peak is within the tracer region of interest.

Product: **Alphaspec U, Soil/Veg/Solid**
Analytical Method: DOE EML HASL-300, U-02-RC Modified
Analytical Procedure: GL-RAD-A-011 REV# 28
Analytical Batch: 2047037

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2047030

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

GEL Sample ID#	Client Sample Identification
522862008	C-22-8
1204657948	Method Blank (MB)

1204657949	522862008(C-22-8) Sample Duplicate (DUP)
1204657950	Laboratory Control Sample (LCS)

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

Duplication Criteria between QC Sample and Duplicate Sample
The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1204657949 (C-22-8DUP)	Uranium-233/234	RPD 32* (0.00%-20.00%) RER 1.42 (0-3)

Product: **Dry Weight**
Preparation Method: ASTM D 2216 (Modified)
Preparation Procedure: GL-OA-E-020 REV# 13
Preparation Batch: 2046328

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2046328

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

GEL Sample ID#	Client Sample Identification
522862001	C-23-1
522862002	C-23-2
522862003	C-23-3
522862004	C-23-4
522862005	C-22-5
522862006	C-22-6
522862007	C-22-7
522862009	C-23-9
522862010	C-22-10
522862011	C-22-11
522862012	C-61-1
522862013	C-61-2
522862014	C-61-3
522862015	C-61-4
522862016	C-61-5

522862017	C-64-1
522862018	C-64-2
522862019	C-64-3
522862020	C-64-4
1204656346	522862001(C-23-1) 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: **Dry Weight**
Preparation Method: ASTM D 2216 (Modified)
Preparation Procedure: GL-OA-E-020 REV# 13
Preparation Batch: 2047030

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2047030

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

GEL Sample ID#	Client Sample Identification
522862008	C-22-8
1204657929	522862008(C-22-8) 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: 2046351

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

GEL Sample ID#	Client Sample Identification

522862001	C-23-1
522862002	C-23-2
522862003	C-23-3
522862004	C-23-4
522862005	C-22-5
522862006	C-22-6
522862007	C-22-7
522862009	C-23-9
522862010	C-22-10
522862011	C-22-11
522862012	C-61-1
522862013	C-61-2
522862014	C-61-3
522862015	C-61-4
522862016	C-61-5
522862017	C-64-1
522862018	C-64-2
522862019	C-64-3
522862020	C-64-4
1204656373	Method Blank (MB)
1204656374	522862001(C-23-1) Sample Duplicate (DUP)
1204656375	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.

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: 2047076

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

GEL Sample ID#	Client Sample Identification
522862008	C-22-8
1204658044	Method Blank (MB)
1204658045	522862008(C-22-8) Sample Duplicate (DUP)
1204658046	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.

Page: 1 of 3

Project # Sealand Soil Sampling

GEL Quote #: WNUC009

COC Number (1):

PO # 4500778461, Line 1

522862

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager:*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Westinghouse Phone # 803.647.3171

Project/Site Name: Fax # 803.695.3964

Address: 5801 Bluff Road, Hopkins, SC 29061

Collected By: Randy Crews RCrews Send Results To: Teaguecj@westinghouse.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Isotopic Uranium by Alpha Spec	Isotopic Uranium by ICPMS	Tc-99	Fluoride	VOCs						<-- Preservative Type (6)	Comments
C-23-1	9/24/2020	1007	G		SO			1	X		X	X								Note: extra sample is required for sample specific QC
C-23-2	9/24/2020	1012	G		SO			1	X		X	X								
C-23-3	9/24/2020	1019	G		SO			1	X		X	X								
C-23-4	9/24/2020	1024	G		SO			2	X		X	X	X							
C-22-5	9/24/2020	1033	G		SO			2	X		X	X	X							
C-22-6	9/24/2020	1042	G		SO			1	X	X	X	X								
C-22-7	9/24/2020	1048	G		SO			1	X		X	X								
C-22-8	9/24/2020	1056	G		SO			1	X		X	X								
C-23-9	9/24/2020	1103	G		SO			2	X		X	X	X							
C-22-10	9/24/2020	1113	G		SO			2	X		X	X	X							

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Randy Crews RCrews	09/30/2020	1002	1 Secure Location	09/30/2020	1002
2 Secure Location	09/30/2020	1105	2 [illegible]	9-30-20	1105
3 [illegible]	9-30-20	1530	3 [illegible]	9/30/20	1530

TAT Requested: Normal: ____ Rush: X Specify: 5 days (1 week)

Fax Results: [ ] Yes [x] 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:*** 2 °C

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

Sample Collection Time Zone: [ ] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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**=Fecal, **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**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
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 concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 2 of 2
Project # Sealand Soil Sampling
GEL Quote #: WNUC009
COC Number [1]:
PO # 4500778461, Line 1

GEL Laboratories LLC

gel.com Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

GEL Work Order Number: **GEL Project Manager:**

Client Name: Westinghouse Phone # 803.647.3171
Project/Site Name: Fax # 803.695.3964
Address: 5801 Bluff Road, Hopkins, SC 29061
Collected By: Randy Crews [signature] Send Results To: Teaguecj@westinghouse.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Radioactive (If yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of containers	Isotopic Uranium by Alpha Spec	Isotopic Uranium by ICPMS	Tc-99	Fluoride	VOCs						<-- Preservative Type (6) / Comments Note: extra sample is required for sample specific QC
C-22-11	9/24/2020	1122	G		SO			2	X		X	X	X						
C-61-1	9/24/2020	1219	G		SO			1	X		X	X							
C-61-2	9/24/2020	1224	G		SO			1	X		X	X							
C-61-3	9/24/2020	1230	G		SO			2	X		X	X	X						
C-61-4	9/24/2020	1237	G		SO			1	X	X	X	X							
C-61-5	9/24/2020	1242	G		SO			1	X		X	X							
C-64-1	9/24/2020	1142	G		SO			1	X		X	X							
C-64-2	9/24/2020	1147	G		SO			1	X		X	X							
C-64-3	9/24/2020	1154	G		SO			2	X		X	X	X						
C-64-4	9/24/2020	1202	G		SO			1	X		X	X							

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Randy Crews [signature]	09/30/2020	1002	1 Secure Location	09/30/2020	1002
2 Secure Location	09/30/2020	1105	2 [signature]	9.30.20	1105
3 [signature]	9.30.20	1530	3 [signature]	9/30/20	1530

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

TAT Requested: Normal: ____ Rush: X Specify: 5 days (1 week)

Fax Results: [ ] Yes [x] 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:*** 2 °C

Sample Collection Time Zone: [ ] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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**=Fecal, **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**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
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 concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: WNUC		SDG/AR/COC/Work Order: 522862	
Received By: Tye		Date Received: 9/30/20	
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) 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?		✓	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?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	✓		Maximum Net Counts (Observed)* (Observed Counts - Area Background Counts): ϕ CPM / mR/Hr Classified as: (Rad 1) Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	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?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR3-19 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?	✓			If Yes, are Encores or Soil Kits present for solids? Yes✓ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			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?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials NRG Date 10/1/20 Page 1 of 1

List of current GEL Certifications as of 07 October 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

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

October 07, 2020

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

Re: ENV-CONSENTA-4500778461
Work Order: 522863

Dear Ms. Teague:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 30, 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

Lindsay Fabra
Project Manager

Purchase Order: PO 4500778461
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: 522863 GEL Work Order: 522863

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

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

Analytical Detections Summary

SDG/Report#	522863	**Client**	Westinghouse Electric Co, LLC
Project ID	ENV-CONSENTA-4500778461		

GEL ID	Client Sample ID	Method	CAS	Analyte	Result	Q
522863001	C-64-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.2 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	2.09 pCi/g	
		SW846 3050B/6020B	15117-96-1	Uranium-235	16.8 ug/kg	
			7440-61-1	Uranium-238	1440 ug/kg	
		SW846 9056A	16984-48-8	Fluoride	1.94 mg/kg	
522863002	C-4-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.22 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	0.933 pCi/g	
522863003	C-4-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.66 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.71 pCi/g	
522863004	C-4-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.968 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.6 pCi/g	
522863005	C-4-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.884 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.31 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	8.58 mg/kg	
522863006	C-4-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.955 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.58 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	5.7 mg/kg	
522863007	C-55-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.742 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	0.889 pCi/g	
522863008	C-55-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.969 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.66 pCi/g	
522863009	C-55-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.09 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.33 pCi/g	
522863010	C-55-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.32 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	2.45 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	3.34 mg/kg	
522863011	C-55-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.48 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.9 pCi/g	
		SW846 3050B/6020B	15117-96-1	Uranium-235	34.8 ug/kg	
			7440-61-1	Uranium-238	2410 ug/kg	
		SW846 9056A	16984-48-8	Fluoride	5.63 mg/kg	

GEL Laboratories LLC

Analytical Detections Summary

SDG/Report#	522863	**Client**	Westinghouse Electric Co, LLC
Project ID	ENV-CONSENTA-4500778461		

GEL ID	Client Sample ID	Method	CAS	Analyte	Result	Q
522863012	C-15-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.18 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.77 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.32 mg/kg	
522863013	C-15-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.96 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.82 pCi/g	
522863014	C-15-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.3 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	1.7 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.15 mg/kg	
522863015	C-15-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.7 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	2.24 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.34 mg/kg	
522863016	C-17-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	2.28 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	4.37 pCi/g	
			15117-96-1/3982-70-2	Uranium-235/236	0.283 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	11.4 mg/kg	
522863017	C-17-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	2.16 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	5.18 pCi/g	
			15117-96-1/3982-70-2	Uranium-235/236	0.357 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	10.1 mg/kg	
522863018	C-17-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.33 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	0.862 pCi/g	
522863019	C-17-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	2.06 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	3.92 pCi/g	
			15117-96-1/3982-70-2	Uranium-235/236	0.289 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	6.39 mg/kg	
522863020	C-17-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.46 pCi/g	
			13968-55-3/13966-29-5	Uranium-233/234	2.43 pCi/g	
			15117-96-1/3982-70-2	Uranium-235/236	0.252 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	6.94 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: October 7, 2020

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

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

Client Sample ID: C-64-5
Sample ID: 522863001
Matrix: Soil
Collect Date: 24-SEP-20 12:08
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.01%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.94	0.358	1.05	mg/kg	9.57	1	LXA2	10/02/20	2010	2046460	1
Metals Analysis-ICP-MS												
SW846 3050B/6020B Isotopic Uranium-234/235/238 "Dry Weight Corrected"												
Uranium-234	U	ND	2.14	10.7	ug/kg	97.5	2	PRB	10/07/20	0237	2046325	2
Uranium-235		16.8	2.14	15.0	ug/kg	97.5	2	PRB	10/07/20	0902	2046325	3
Uranium-238		1440	14.1	42.8	ug/kg	97.5	2					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	SM1	10/01/20	0915	2046324
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	0925	2046459

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
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

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

Certificate of Analysis

Report Date: October 7, 2020

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

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

Client Sample ID: C-4-1
Sample ID: 522863002
Matrix: Soil
Collect Date: 25-SEP-20 11:47
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.1%

Project: WNUC00901
Client ID: WNUC009

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	9.64	1	LXA2	10/02/20	2131	2046460	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	0925	2046459

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: October 7, 2020

Company : Westinghouse Electric Company, LLC
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Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-4-2
Sample ID: 522863003
Matrix: Soil
Collect Date: 25-SEP-20 11:51
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.7%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.529	0.384	1.13	mg/kg	9.98	1	LXA2	10/02/20	2159	2046460	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	0925	2046459

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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

Client Sample ID: C-4-3
Sample ID: 522863004
Matrix: Soil
Collect Date: 25-SEP-20 11:55
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.7%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.941	0.378	1.11	mg/kg	9.83	1	LXA2	10/02/20	2226	2046460	1
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
1,1,1,2-Tetrachloroethane	U	ND	0.273	0.819	ug/kg	0.724	1	JP1	10/02/20	2131	2047333	2
1,1,1-Trichloroethane	U	ND	0.273	0.819	ug/kg	0.724	1					
1,1,2,2-Tetrachloroethane	U	ND	0.273	0.819	ug/kg	0.724	1					
1,1,2-Trichloroethane	U	ND	0.273	0.819	ug/kg	0.724	1					
1,1-Dichloroethane	U	ND	0.273	0.819	ug/kg	0.724	1					
1,1-Dichloroethylene	U	ND	0.273	0.819	ug/kg	0.724	1					
1,2,3-Trichloropropane	U	ND	0.273	0.819	ug/kg	0.724	1					
1,2,4-Trichlorobenzene	U	ND	0.273	0.819	ug/kg	0.724	1					
1,2-Dibromo-3-chloropropane	U	ND	0.410	0.819	ug/kg	0.724	1					
1,2-Dibromoethane	U	ND	0.273	0.819	ug/kg	0.724	1					
1,2-Dichloroethane	U	ND	0.273	0.819	ug/kg	0.724	1					
1,2-Dichloropropane	U	ND	0.273	0.819	ug/kg	0.724	1					
2-Butanone	U	ND	1.37	4.10	ug/kg	0.724	1					
2-Chloro-1,3-butadiene	U	ND	0.273	0.819	ug/kg	0.724	1					
2-Hexanone	U	ND	1.37	4.10	ug/kg	0.724	1					
4-Methyl-2-pentanone	U	ND	1.37	4.10	ug/kg	0.724	1					
Acetone	J	1.93	1.37	4.10	ug/kg	0.724	1					
Acetonitrile	U	ND	6.82	20.5	ug/kg	0.724	1					
Acrolein	U	ND	1.37	4.10	ug/kg	0.724	1					
Acrylonitrile	U	ND	1.37	4.10	ug/kg	0.724	1					
Allyl chloride	U	ND	1.37	4.10	ug/kg	0.724	1					
Benzene	U	ND	0.273	0.819	ug/kg	0.724	1					
Bromodichloromethane	U	ND	0.273	0.819	ug/kg	0.724	1					
Bromoform	U	ND	0.273	0.819	ug/kg	0.724	1					
Bromomethane	U	ND	0.273	0.819	ug/kg	0.724	1					
Carbon disulfide	U	ND	1.37	4.10	ug/kg	0.724	1					
Carbon tetrachloride	U	ND	0.273	0.819	ug/kg	0.724	1					
Chlorobenzene	U	ND	0.273	0.819	ug/kg	0.724	1					
Chloroethane	U	ND	0.273	0.819	ug/kg	0.724	1					
Chloroform	U	ND	0.273	0.819	ug/kg	0.724	1					
Chloromethane	U	ND	0.273	0.819	ug/kg	0.724	1					
Dibromochloromethane	U	ND	0.273	0.819	ug/kg	0.724	1					
Dibromomethane	U	ND	0.273	0.819	ug/kg	0.724	1					

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

Client Sample ID: C-4-3 Project: WNUC00901
Sample ID: 522863004 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
Dichlorodifluoromethane	U	ND	0.273	0.819	ug/kg	0.724	1					
Ethyl methacrylate	U	ND	1.37	4.10	ug/kg	0.724	1					
Ethylbenzene	U	ND	0.273	0.819	ug/kg	0.724	1					
Iodomethane	U	ND	1.37	4.10	ug/kg	0.724	1					
Isobutyl alcohol	U	ND	13.7	41.0	ug/kg	0.724	1					
Methacrylonitrile	U	ND	1.37	4.10	ug/kg	0.724	1					
Methyl methacrylate	U	ND	1.37	4.10	ug/kg	0.724	1					
Methylene chloride	U	ND	1.37	4.10	ug/kg	0.724	1					
Pentachloroethane	U	ND	1.37	4.10	ug/kg	0.724	1					
Propionitrile	U	ND	1.37	4.10	ug/kg	0.724	1					
Styrene	U	ND	0.273	0.819	ug/kg	0.724	1					
Tetrachloroethylene	U	ND	0.273	0.819	ug/kg	0.724	1					
Toluene	U	ND	0.273	0.819	ug/kg	0.724	1					
Trichloroethylene	U	ND	0.273	0.819	ug/kg	0.724	1					
Trichlorofluoromethane	U	ND	0.273	0.819	ug/kg	0.724	1					
Vinyl acetate	U	ND	1.37	4.10	ug/kg	0.724	1					
Vinyl chloride	U	ND	0.273	0.819	ug/kg	0.724	1					
Xylenes (total)	U	ND	0.819	2.46	ug/kg	0.724	1					
bis(2-Chloro-1-methylethyl)ether	U	ND	1.37	4.10	ug/kg	0.724	1					
cis-1,3-Dichloropropylene	U	ND	0.273	0.819	ug/kg	0.724	1					
trans-1,2-Dichloroethylene	U	ND	0.273	0.819	ug/kg	0.724	1					
trans-1,3-Dichloropropylene	U	ND	0.273	0.819	ug/kg	0.724	1					
trans-1,4-Dichloro-2-butene	U	ND	1.37	4.10	ug/kg	0.724	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/25/20	1155	2047332
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	0925	2046459

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 VOC "Dry Weight Corrected"	39.7 ug/kg	50.0	97	(81%-124%)
Bromofluorobenzene	SW846 8260D VOC "Dry Weight Corrected"	39.0 ug/kg	50.0	95	(70%-130%)

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

Client Sample ID: C-4-3 Project: WNUC00901
Sample ID: 522863004 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
Toluene-d8		SW846 8260D VOC "Dry Weight Corrected"		41.6	ug/kg	50.0		102	(81%-120%)		

Notes:

Column headers are defined as follows:

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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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Company :	Westinghouse Electric Company, LLC
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Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-4-4	Project:	WNUC00901
Sample ID:	522863005	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	25-SEP-20 12:04		
Receive Date:	30-SEP-20		
Collector:	Client		
Moisture:	10.9%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		8.58	0.763	2.24	mg/kg	20.0	1	LXA2	10/02/20	2253	2046460	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	0925	2046459

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

Client Sample ID:	C-4-5	Project:	WNUC00901
Sample ID:	522863006	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	25-SEP-20 12:10		
Receive Date:	30-SEP-20		
Collector:	Client		
Moisture:	9.55%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		5.70	0.358	1.05	mg/kg	9.52	1	LXA2	10/02/20	2320	2046460	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	0925	2046459

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

Client Sample ID: C-55-1
Sample ID: 522863007
Matrix: Soil
Collect Date: 25-SEP-20 11:17
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.4%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.379	1.12	mg/kg	10.0	1	LXA2	10/02/20	2347	2046460	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	0925	2046459

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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

Client Sample ID: C-55-2
Sample ID: 522863008
Matrix: Soil
Collect Date: 25-SEP-20 11:21
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.8%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.384	1.13	mg/kg	9.95	1	LXA2	10/03/20	0014	2046460	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	0925	2046459

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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

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

Client Sample ID: C-55-3
Sample ID: 522863009
Matrix: Soil
Collect Date: 25-SEP-20 11:26
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.8%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	1.01	0.374	1.10	mg/kg	9.93	1	LXA2	10/03/20	0041	2046460	1
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
1,1,1,2-Tetrachloroethane	U	ND	0.389	1.17	ug/kg	1.05	1	JP1	10/02/20	2157	2047333	2
1,1,1-Trichloroethane	U	ND	0.389	1.17	ug/kg	1.05	1					
1,1,2,2-Tetrachloroethane	U	ND	0.389	1.17	ug/kg	1.05	1					
1,1,2-Trichloroethane	U	ND	0.389	1.17	ug/kg	1.05	1					
1,1-Dichloroethane	U	ND	0.389	1.17	ug/kg	1.05	1					
1,1-Dichloroethylene	U	ND	0.389	1.17	ug/kg	1.05	1					
1,2,3-Trichloropropane	U	ND	0.389	1.17	ug/kg	1.05	1					
1,2,4-Trichlorobenzene	U	ND	0.389	1.17	ug/kg	1.05	1					
1,2-Dibromo-3-chloropropane	U	ND	0.585	1.17	ug/kg	1.05	1					
1,2-Dibromoethane	U	ND	0.389	1.17	ug/kg	1.05	1					
1,2-Dichloroethane	U	ND	0.389	1.17	ug/kg	1.05	1					
1,2-Dichloropropane	U	ND	0.389	1.17	ug/kg	1.05	1					
2-Butanone	U	ND	1.95	5.85	ug/kg	1.05	1					
2-Chloro-1,3-butadiene	U	ND	0.389	1.17	ug/kg	1.05	1					
2-Hexanone	U	ND	1.95	5.85	ug/kg	1.05	1					
4-Methyl-2-pentanone	U	ND	1.95	5.85	ug/kg	1.05	1					
Acetone	J	5.45	1.95	5.85	ug/kg	1.05	1					
Acetonitrile	U	ND	9.74	29.2	ug/kg	1.05	1					
Acrolein	U	ND	1.95	5.85	ug/kg	1.05	1					
Acrylonitrile	U	ND	1.95	5.85	ug/kg	1.05	1					
Allyl chloride	U	ND	1.95	5.85	ug/kg	1.05	1					
Benzene	U	ND	0.389	1.17	ug/kg	1.05	1					
Bromodichloromethane	U	ND	0.389	1.17	ug/kg	1.05	1					
Bromoform	U	ND	0.389	1.17	ug/kg	1.05	1					
Bromomethane	U	ND	0.389	1.17	ug/kg	1.05	1					
Carbon disulfide	U	ND	1.95	5.85	ug/kg	1.05	1					
Carbon tetrachloride	U	ND	0.389	1.17	ug/kg	1.05	1					
Chlorobenzene	U	ND	0.389	1.17	ug/kg	1.05	1					
Chloroethane	U	ND	0.389	1.17	ug/kg	1.05	1					
Chloroform	U	ND	0.389	1.17	ug/kg	1.05	1					
Chloromethane	U	ND	0.389	1.17	ug/kg	1.05	1					
Dibromochloromethane	U	ND	0.389	1.17	ug/kg	1.05	1					
Dibromomethane	U	ND	0.389	1.17	ug/kg	1.05	1					

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

Client Sample ID: C-55-3 Project: WNUC00901
Sample ID: 522863009 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
Dichlorodifluoromethane	U	ND	0.389	1.17	ug/kg	1.05	1					
Ethyl methacrylate	U	ND	1.95	5.85	ug/kg	1.05	1					
Ethylbenzene	U	ND	0.389	1.17	ug/kg	1.05	1					
Iodomethane	U	ND	1.95	5.85	ug/kg	1.05	1					
Isobutyl alcohol	U	ND	19.5	58.5	ug/kg	1.05	1					
Methacrylonitrile	U	ND	1.95	5.85	ug/kg	1.05	1					
Methyl methacrylate	U	ND	1.95	5.85	ug/kg	1.05	1					
Methylene chloride	U	ND	1.95	5.85	ug/kg	1.05	1					
Pentachloroethane	U	ND	1.95	5.85	ug/kg	1.05	1					
Propionitrile	U	ND	1.95	5.85	ug/kg	1.05	1					
Styrene	U	ND	0.389	1.17	ug/kg	1.05	1					
Tetrachloroethylene	U	ND	0.389	1.17	ug/kg	1.05	1					
Toluene	U	ND	0.389	1.17	ug/kg	1.05	1					
Trichloroethylene	U	ND	0.389	1.17	ug/kg	1.05	1					
Trichlorofluoromethane	U	ND	0.389	1.17	ug/kg	1.05	1					
Vinyl acetate	U	ND	1.95	5.85	ug/kg	1.05	1					
Vinyl chloride	U	ND	0.389	1.17	ug/kg	1.05	1					
Xylenes (total)	U	ND	1.17	3.51	ug/kg	1.05	1					
bis(2-Chloro-1-methylethyl)ether	U	ND	1.95	5.85	ug/kg	1.05	1					
cis-1,3-Dichloropropylene	U	ND	0.389	1.17	ug/kg	1.05	1					
trans-1,2-Dichloroethylene	U	ND	0.389	1.17	ug/kg	1.05	1					
trans-1,3-Dichloropropylene	U	ND	0.389	1.17	ug/kg	1.05	1					
trans-1,4-Dichloro-2-butene	U	ND	1.95	5.85	ug/kg	1.05	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/25/20	1126	2047332
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	0925	2046459

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 VOC "Dry Weight Corrected"	58.0 ug/kg	50.0	99	(81%-124%)
Bromofluorobenzene	SW846 8260D VOC "Dry Weight Corrected"	55.0 ug/kg	50.0	94	(70%-130%)

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

Client Sample ID: C-55-3 Project: WNUC00901
Sample ID: 522863009 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
Toluene-d8		SW846 8260D VOC "Dry Weight Corrected"		59.8	ug/kg	50.0		102	(81%-120%)		

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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Report Date: October 7, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-55-4	Project:	WNUC00901
Sample ID:	522863010	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	25-SEP-20 11:34		
Receive Date:	30-SEP-20		
Collector:	Client		
Moisture:	11.3%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		3.34	0.375	1.10	mg/kg	9.78	1	LXA2	10/03/20	0108	2046460	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	0925	2046459

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

Client Sample ID: C-55-5
Sample ID: 522863011
Matrix: Soil
Collect Date: 24-SEP-20 11:39
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.6%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		5.63	0.379	1.12	mg/kg	9.98	1	LXA2	10/03/20	0135	2046460	1
Metals Analysis-ICP-MS												
SW846 3050B/6020B Isotopic Uranium-234/235/238 "Dry Weight Corrected"												
Uranium-234	U	ND	2.16	10.8	ug/kg	96.5	2	PRB	10/07/20	0238	2046325	2
Uranium-235		34.8	2.16	15.1	ug/kg	96.5	2	PRB	10/07/20	0904	2046325	3
Uranium-238		2410	14.3	43.2	ug/kg	96.5	2					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	SM1	10/01/20	0915	2046324
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	0925	2046459

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

Client Sample ID:	C-15-1	Project:	WNUC00901
Sample ID:	522863012	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	26-SEP-20 08:48		
Receive Date:	30-SEP-20		
Collector:	Client		
Moisture:	9.63%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.32	0.357	1.05	mg/kg	9.50	1	LXA2	10/03/20	0256	2046460	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	0925	2046459

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

Client Sample ID: C-15-2
Sample ID: 522863013
Matrix: Soil
Collect Date: 26-SEP-20 08:53
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.42%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.357	1.05	mg/kg	9.50	1	LXA2	10/03/20	0323	2046460	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	0925	2046459

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
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Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-15-3	Project:	WNUC00901
Sample ID:	522863014	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	26-SEP-20 08:57		
Receive Date:	30-SEP-20		
Collector:	Client		
Moisture:	9.74%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.15	0.361	1.06	mg/kg	9.59	1	LXA2	10/03/20	0350	2046460	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	0925	2046459

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

Client Sample ID: C-15-4
Sample ID: 522863015
Matrix: Soil
Collect Date: 26-SEP-20 09:02
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.7%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.34	0.373	1.10	mg/kg	9.80	1	LXA2	10/03/20	0417	2046460	1
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
1,1,1,2-Tetrachloroethane	U	ND	0.281	0.844	ug/kg	0.754	1	JP1	10/02/20	2222	2047333	2
1,1,1-Trichloroethane	U	ND	0.281	0.844	ug/kg	0.754	1					
1,1,2,2-Tetrachloroethane	U	ND	0.281	0.844	ug/kg	0.754	1					
1,1,2-Trichloroethane	U	ND	0.281	0.844	ug/kg	0.754	1					
1,1-Dichloroethane	U	ND	0.281	0.844	ug/kg	0.754	1					
1,1-Dichloroethylene	U	ND	0.281	0.844	ug/kg	0.754	1					
1,2,3-Trichloropropane	U	ND	0.281	0.844	ug/kg	0.754	1					
1,2,4-Trichlorobenzene	U	ND	0.281	0.844	ug/kg	0.754	1					
1,2-Dibromo-3-chloropropane	U	ND	0.422	0.844	ug/kg	0.754	1					
1,2-Dibromoethane	U	ND	0.281	0.844	ug/kg	0.754	1					
1,2-Dichloroethane	U	ND	0.281	0.844	ug/kg	0.754	1					
1,2-Dichloropropane	U	ND	0.281	0.844	ug/kg	0.754	1					
2-Butanone	U	ND	1.41	4.22	ug/kg	0.754	1					
2-Chloro-1,3-butadiene	U	ND	0.281	0.844	ug/kg	0.754	1					
2-Hexanone	U	ND	1.41	4.22	ug/kg	0.754	1					
4-Methyl-2-pentanone	U	ND	1.41	4.22	ug/kg	0.754	1					
Acetone	U	ND	1.41	4.22	ug/kg	0.754	1					
Acetonitrile	U	ND	7.03	21.1	ug/kg	0.754	1					
Acrolein	U	ND	1.41	4.22	ug/kg	0.754	1					
Acrylonitrile	U	ND	1.41	4.22	ug/kg	0.754	1					
Allyl chloride	U	ND	1.41	4.22	ug/kg	0.754	1					
Benzene	U	ND	0.281	0.844	ug/kg	0.754	1					
Bromodichloromethane	U	ND	0.281	0.844	ug/kg	0.754	1					
Bromoform	U	ND	0.281	0.844	ug/kg	0.754	1					
Bromomethane	U	ND	0.281	0.844	ug/kg	0.754	1					
Carbon disulfide	U	ND	1.41	4.22	ug/kg	0.754	1					
Carbon tetrachloride	U	ND	0.281	0.844	ug/kg	0.754	1					
Chlorobenzene	U	ND	0.281	0.844	ug/kg	0.754	1					
Chloroethane	U	ND	0.281	0.844	ug/kg	0.754	1					
Chloroform	U	ND	0.281	0.844	ug/kg	0.754	1					
Chloromethane	U	ND	0.281	0.844	ug/kg	0.754	1					
Dibromochloromethane	U	ND	0.281	0.844	ug/kg	0.754	1					
Dibromomethane	U	ND	0.281	0.844	ug/kg	0.754	1					

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

Client Sample ID: C-15-4 Project: WNUC00901
Sample ID: 522863015 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
Dichlorodifluoromethane	U	ND	0.281	0.844	ug/kg	0.754	1					
Ethyl methacrylate	U	ND	1.41	4.22	ug/kg	0.754	1					
Ethylbenzene	U	ND	0.281	0.844	ug/kg	0.754	1					
Iodomethane	U	ND	1.41	4.22	ug/kg	0.754	1					
Isobutyl alcohol	U	ND	14.1	42.2	ug/kg	0.754	1					
Methacrylonitrile	U	ND	1.41	4.22	ug/kg	0.754	1					
Methyl methacrylate	U	ND	1.41	4.22	ug/kg	0.754	1					
Methylene chloride	U	ND	1.41	4.22	ug/kg	0.754	1					
Pentachloroethane	U	ND	1.41	4.22	ug/kg	0.754	1					
Propionitrile	U	ND	1.41	4.22	ug/kg	0.754	1					
Styrene	U	ND	0.281	0.844	ug/kg	0.754	1					
Tetrachloroethylene	U	ND	0.281	0.844	ug/kg	0.754	1					
Toluene	U	ND	0.281	0.844	ug/kg	0.754	1					
Trichloroethylene	U	ND	0.281	0.844	ug/kg	0.754	1					
Trichlorofluoromethane	U	ND	0.281	0.844	ug/kg	0.754	1					
Vinyl acetate	U	ND	1.41	4.22	ug/kg	0.754	1					
Vinyl chloride	U	ND	0.281	0.844	ug/kg	0.754	1					
Xylenes (total)	U	ND	0.844	2.53	ug/kg	0.754	1					
bis(2-Chloro-1-methylethyl)ether	U	ND	1.41	4.22	ug/kg	0.754	1					
cis-1,3-Dichloropropylene	U	ND	0.281	0.844	ug/kg	0.754	1					
trans-1,2-Dichloroethylene	U	ND	0.281	0.844	ug/kg	0.754	1					
trans-1,3-Dichloropropylene	U	ND	0.281	0.844	ug/kg	0.754	1					
trans-1,4-Dichloro-2-butene	U	ND	1.41	4.22	ug/kg	0.754	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/26/20	0902	2047332
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	0925	2046459

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 VOC "Dry Weight Corrected"	40.1 ug/kg	50.0	95	(81%-124%)
Bromofluorobenzene	SW846 8260D VOC "Dry Weight Corrected"	39.7 ug/kg	50.0	94	(70%-130%)

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

Client Sample ID: C-15-4 Project: WNUC00901
Sample ID: 522863015 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
Toluene-d8		SW846 8260D VOC "Dry Weight Corrected"		42.6	ug/kg	50.0		101	(81%-120%)		

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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Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-17-1	Project:	WNUC00901
Sample ID:	522863016	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	26-SEP-20 09:47		
Receive Date:	30-SEP-20		
Collector:	Client		
Moisture:	9.23%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		11.4	0.375	1.10	mg/kg	10.0	1	LXA2	10/03/20	0444	2046460	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	0925	2046459

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

Client Sample ID:	C-17-2	Project:	WNUC00901
Sample ID:	522863017	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	26-SEP-20 09:55		
Receive Date:	30-SEP-20		
Collector:	Client		
Moisture:	12.1%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		10.1	0.379	1.11	mg/kg	9.80	1	LXA2	10/03/20	0511	2046460	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	0925	2046459

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

Client Sample ID: C-17-3
Sample ID: 522863018
Matrix: Soil
Collect Date: 26-SEP-20 10:01
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.46%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	1.09	0.380	1.12	mg/kg	10.1	1	LXA2	10/02/20	0528	2046865	1
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
1,1,1,2-Tetrachloroethane	U	ND	0.285	0.856	ug/kg	0.775	1	JP1	10/02/20	2248	2047333	2
1,1,1-Trichloroethane	U	ND	0.285	0.856	ug/kg	0.775	1					
1,1,2,2-Tetrachloroethane	U	ND	0.285	0.856	ug/kg	0.775	1					
1,1,2-Trichloroethane	U	ND	0.285	0.856	ug/kg	0.775	1					
1,1-Dichloroethane	U	ND	0.285	0.856	ug/kg	0.775	1					
1,1-Dichloroethylene	U	ND	0.285	0.856	ug/kg	0.775	1					
1,2,3-Trichloropropane	U	ND	0.285	0.856	ug/kg	0.775	1					
1,2,4-Trichlorobenzene	U	ND	0.285	0.856	ug/kg	0.775	1					
1,2-Dibromo-3-chloropropane	U	ND	0.428	0.856	ug/kg	0.775	1					
1,2-Dibromoethane	U	ND	0.285	0.856	ug/kg	0.775	1					
1,2-Dichloroethane	U	ND	0.285	0.856	ug/kg	0.775	1					
1,2-Dichloropropane	U	ND	0.285	0.856	ug/kg	0.775	1					
2-Butanone	U	ND	1.43	4.28	ug/kg	0.775	1					
2-Chloro-1,3-butadiene	U	ND	0.285	0.856	ug/kg	0.775	1					
2-Hexanone	U	ND	1.43	4.28	ug/kg	0.775	1					
4-Methyl-2-pentanone	U	ND	1.43	4.28	ug/kg	0.775	1					
Acetone	U	ND	1.43	4.28	ug/kg	0.775	1					
Acetonitrile	U	ND	7.13	21.4	ug/kg	0.775	1					
Acrolein	U	ND	1.43	4.28	ug/kg	0.775	1					
Acrylonitrile	U	ND	1.43	4.28	ug/kg	0.775	1					
Allyl chloride	U	ND	1.43	4.28	ug/kg	0.775	1					
Benzene	U	ND	0.285	0.856	ug/kg	0.775	1					
Bromodichloromethane	U	ND	0.285	0.856	ug/kg	0.775	1					
Bromoform	U	ND	0.285	0.856	ug/kg	0.775	1					
Bromomethane	U	ND	0.285	0.856	ug/kg	0.775	1					
Carbon disulfide	U	ND	1.43	4.28	ug/kg	0.775	1					
Carbon tetrachloride	U	ND	0.285	0.856	ug/kg	0.775	1					
Chlorobenzene	U	ND	0.285	0.856	ug/kg	0.775	1					
Chloroethane	U	ND	0.285	0.856	ug/kg	0.775	1					
Chloroform	U	ND	0.285	0.856	ug/kg	0.775	1					
Chloromethane	U	ND	0.285	0.856	ug/kg	0.775	1					
Dibromochloromethane	U	ND	0.285	0.856	ug/kg	0.775	1					
Dibromomethane	U	ND	0.285	0.856	ug/kg	0.775	1					

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Address : PO Drawer R

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

Client Sample ID: C-17-3 Project: WNUC00901
Sample ID: 522863018 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
Dichlorodifluoromethane	U	ND	0.285	0.856	ug/kg	0.775	1					
Ethyl methacrylate	U	ND	1.43	4.28	ug/kg	0.775	1					
Ethylbenzene	U	ND	0.285	0.856	ug/kg	0.775	1					
Iodomethane	U	ND	1.43	4.28	ug/kg	0.775	1					
Isobutyl alcohol	U	ND	14.3	42.8	ug/kg	0.775	1					
Methacrylonitrile	U	ND	1.43	4.28	ug/kg	0.775	1					
Methyl methacrylate	U	ND	1.43	4.28	ug/kg	0.775	1					
Methylene chloride	U	ND	1.43	4.28	ug/kg	0.775	1					
Pentachloroethane	U	ND	1.43	4.28	ug/kg	0.775	1					
Propionitrile	U	ND	1.43	4.28	ug/kg	0.775	1					
Styrene	U	ND	0.285	0.856	ug/kg	0.775	1					
Tetrachloroethylene	U	ND	0.285	0.856	ug/kg	0.775	1					
Toluene	U	ND	0.285	0.856	ug/kg	0.775	1					
Trichloroethylene	U	ND	0.285	0.856	ug/kg	0.775	1					
Trichlorofluoromethane	U	ND	0.285	0.856	ug/kg	0.775	1					
Vinyl acetate	U	ND	1.43	4.28	ug/kg	0.775	1					
Vinyl chloride	U	ND	0.285	0.856	ug/kg	0.775	1					
Xylenes (total)	U	ND	0.856	2.57	ug/kg	0.775	1					
bis(2-Chloro-1-methylethyl)ether	U	ND	1.43	4.28	ug/kg	0.775	1					
cis-1,3-Dichloropropylene	U	ND	0.285	0.856	ug/kg	0.775	1					
trans-1,2-Dichloroethylene	U	ND	0.285	0.856	ug/kg	0.775	1					
trans-1,3-Dichloropropylene	U	ND	0.285	0.856	ug/kg	0.775	1					
trans-1,4-Dichloro-2-butene	U	ND	1.43	4.28	ug/kg	0.775	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/26/20	1001	2047332
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/01/20	2107	2046854

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 VOC "Dry Weight Corrected"	42.7 ug/kg	50.0	100	(81%-124%)
Bromofluorobenzene	SW846 8260D VOC "Dry Weight Corrected"	40.2 ug/kg	50.0	94	(70%-130%)

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Certificate of Analysis

Report Date: October 7, 2020

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

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

Client Sample ID: C-17-3 Project: WNUC00901
Sample ID: 522863018 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
Toluene-d8		SW846 8260D VOC "Dry Weight Corrected"		43.1	ug/kg	50.0		101	(81%-120%)		

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

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

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

Client Sample ID: C-17-4
Sample ID: 522863019
Matrix: Soil
Collect Date: 26-SEP-20 10:11
Receive Date: 30-SEP-20
Collector: Client
Moisture: 13%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		6.39	0.361	1.06	mg/kg	9.24	1	LXA2	10/02/20	0649	2046865	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/01/20	2107	2046854

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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: October 7, 2020

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

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

Client Sample ID: C-17-5
Sample ID: 522863020
Matrix: Soil
Collect Date: 26-SEP-20 10:20
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.9%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		6.94	0.384	1.13	mg/kg	10.1	1	LXA2	10/02/20	0716	2046865	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/01/20	2107	2046854

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: October 7, 2020

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

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

Client Sample ID: C-64-5
Sample ID: 522863001
Matrix: Soil
Collect Date: 24-SEP-20 12:08
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.01%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		2.09	+/-0.560	0.348	0.500	pCi/g			MXS2	10/05/20	1122	2046418	1
Uranium-235/236	U	0.122	+/-0.176	0.212	0.500	pCi/g							
Uranium-238		1.20	+/-0.423	0.265	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.304	+/-0.446	0.777	1.00	pCi/g			JJ3	10/06/20	0700	2046353	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	0957	2046329

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/Solid "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
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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Report Date: October 7, 2020

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

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

Client Sample ID: C-4-1
Sample ID: 522863002
Matrix: Soil
Collect Date: 25-SEP-20 11:47
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		0.933	+/-0.373	0.340	0.500	pCi/g			MXS2	10/05/20	1122	2046418	1
Uranium-235/236	U	0.267	+/-0.235	0.275	0.500	pCi/g							
Uranium-238		1.22	+/-0.400	0.235	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.310	+/-0.437	0.764	1.00	pCi/g			JJ3	10/06/20	0801	2046353	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	0949	2046329

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/Solid "Dry Weight Corrected"			80.3	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.5	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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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Report Date: October 7, 2020

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

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

Client Sample ID: C-4-2
Sample ID: 522863003
Matrix: Soil
Collect Date: 25-SEP-20 11:51
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.7%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.71	+/-0.525	0.289	0.500	pCi/g			MXS2	10/05/20	1122	2046418	1
Uranium-235/236	U	0.0877	+/-0.199	0.342	0.500	pCi/g							
Uranium-238		1.66	+/-0.514	0.260	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.361	+/-0.444	0.778	1.00	pCi/g			JJ3	10/06/20	0902	2046353	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	0949	2046329

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/Solid "Dry Weight Corrected"			68.9	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92.3	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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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Report Date: October 7, 2020

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

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

Client Sample ID: C-4-3
Sample ID: 522863004
Matrix: Soil
Collect Date: 25-SEP-20 11:55
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.7%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.60	+/-0.517	0.359	0.500	pCi/g			MXS2	10/05/20	1122	2046418	1
Uranium-235/236	U	0.170	+/-0.215	0.268	0.500	pCi/g							
Uranium-238		0.968	+/-0.392	0.187	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.595	+/-0.437	0.776	1.00	pCi/g			JJ3	10/06/20	1004	2046353	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	0949	2046329

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/Solid "Dry Weight Corrected"			71.7	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.6	(15%-125%)

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

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: October 7, 2020

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

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

Client Sample ID: C-4-4
Sample ID: 522863005
Matrix: Soil
Collect Date: 25-SEP-20 12:04
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.9%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.31	+/-0.526	0.372	0.500	pCi/g			MXS2	10/05/20	1122	2046418	1
Uranium-235/236	U	0.155	+/-0.246	0.340	0.500	pCi/g							
Uranium-238		0.884	+/-0.439	0.348	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.372	+/-0.473	0.827	1.00	pCi/g			JJ3	10/06/20	1105	2046353	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	0949	2046329

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/Solid "Dry Weight Corrected"			60.7	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92	(15%-125%)

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

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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Report Date: October 7, 2020

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

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

Client Sample ID: C-4-5
Sample ID: 522863006
Matrix: Soil
Collect Date: 25-SEP-20 12:10
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.55%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.58	+/-0.483	0.329	0.500	pCi/g			MXS2	10/05/20	1122	2046418	1
Uranium-235/236	U	0.0754	+/-0.148	0.205	0.500	pCi/g							
Uranium-238		0.955	+/-0.375	0.256	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.387	+/-0.426	0.748	1.00	pCi/g			JJ3	10/06/20	1206	2046353	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	0949	2046329

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/Solid "Dry Weight Corrected"			80.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			96.6	(15%-125%)

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

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: October 7, 2020

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

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

Client Sample ID: C-55-1
Sample ID: 522863007
Matrix: Soil
Collect Date: 25-SEP-20 11:17
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.4%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		0.889	+/-0.380	0.329	0.500	pCi/g			MXS2	10/05/20	1122	2046418	1
Uranium-235/236	U	0.166	+/-0.195	0.211	0.500	pCi/g							
Uranium-238		0.742	+/-0.338	0.250	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.166	+/-0.454	0.786	1.00	pCi/g			JJ3	10/06/20	1307	2046353	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	0949	2046329

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/Solid "Dry Weight Corrected"			76.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			93.5	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-55-2
Sample ID: 522863008
Matrix: Soil
Collect Date: 25-SEP-20 11:21
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.8%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.66	+/-0.561	0.369	0.500	pCi/g			MXS2	10/05/20	1122	2046418	1
Uranium-235/236	U	0.0846	+/-0.194	0.308	0.500	pCi/g							
Uranium-238		0.969	+/-0.425	0.249	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.438	+/-0.453	0.796	1.00	pCi/g			JJ3	10/06/20	1408	2046353	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	0949	2046329

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/Solid "Dry Weight Corrected"			65	(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
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: October 7, 2020

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

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

Client Sample ID: C-55-3
Sample ID: 522863009
Matrix: Soil
Collect Date: 25-SEP-20 11:26
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.8%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.33	+/-0.456	0.248	0.500	pCi/g			MXS2	10/05/20	1122	2046418	1
Uranium-235/236	U	0.0831	+/-0.163	0.226	0.500	pCi/g							
Uranium-238		1.09	+/-0.420	0.283	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.496	+/-0.453	0.798	1.00	pCi/g			JJ3	10/06/20	1509	2046353	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	0949	2046329

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/Solid "Dry Weight Corrected"			79.4	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92.3	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-55-4
Sample ID: 522863010
Matrix: Soil
Collect Date: 25-SEP-20 11:34
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.3%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		2.45	+/-0.619	0.372	0.500	pCi/g			MXS2	10/05/20	1122	2046418	1
Uranium-235/236	U	0.154	+/-0.231	0.360	0.500	pCi/g							
Uranium-238		1.32	+/-0.457	0.303	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.283	+/-0.455	0.793	1.00	pCi/g			JJ3	10/06/20	1610	2046353	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	0949	2046329

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/Solid "Dry Weight Corrected"			81.3	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94.3	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-55-5
Sample ID: 522863011
Matrix: Soil
Collect Date: 24-SEP-20 11:39
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.6%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.90	+/-0.527	0.279	0.500	pCi/g			MXS2	10/05/20	1122	2046418	1
Uranium-235/236	U	0.0691	+/-0.182	0.328	0.500	pCi/g							
Uranium-238		1.48	+/-0.462	0.219	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.189	+/-0.417	0.725	1.00	pCi/g			JJ3	10/06/20	1712	2046353	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	0949	2046329

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/Solid "Dry Weight Corrected"			84.9	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94.9	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-15-1
Sample ID: 522863012
Matrix: Soil
Collect Date: 26-SEP-20 08:48
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.63%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.77	+/-0.535	0.312	0.500	pCi/g			MXS2	10/05/20	1122	2046418	1
Uranium-235/236	U	0.268	+/-0.255	0.269	0.500	pCi/g							
Uranium-238		1.18	+/-0.437	0.259	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.250	+/-0.417	0.726	1.00	pCi/g			JJ3	10/06/20	1813	2046353	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	0949	2046329

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/Solid "Dry Weight Corrected"			86.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			97.2	(15%-125%)

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

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: October 7, 2020

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

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

Client Sample ID: C-15-2
Sample ID: 522863013
Matrix: Soil
Collect Date: 26-SEP-20 08:53
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.42%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.82	+/-0.561	0.289	0.500	pCi/g			MXS2	10/05/20	1122	2046418	1
Uranium-235/236	U	0.145	+/-0.209	0.253	0.500	pCi/g							
Uranium-238		0.960	+/-0.411	0.236	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0992	+/-0.448	0.774	1.00	pCi/g			JJ3	10/06/20	1914	2046353	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	0949	2046329

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/Solid "Dry Weight Corrected"			81.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			91.5	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-15-3
Sample ID: 522863014
Matrix: Soil
Collect Date: 26-SEP-20 08:57
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.74%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.70	+/-0.554	0.386	0.500	pCi/g			MXS2	10/05/20	1123	2046418	1
Uranium-235/236	U	0.144	+/-0.208	0.251	0.500	pCi/g							
Uranium-238		1.30	+/-0.479	0.297	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.385	+/-0.429	0.753	1.00	pCi/g			JJ3	10/06/20	2015	2046353	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	0949	2046329

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/Solid "Dry Weight Corrected"			86	(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
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: October 7, 2020

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

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

Client Sample ID: C-15-4
Sample ID: 522863015
Matrix: Soil
Collect Date: 26-SEP-20 09:02
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.7%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		2.24	+/-0.661	0.340	0.500	pCi/g			MXS2	10/05/20	1123	2046418	1
Uranium-235/236	U	0.150	+/-0.238	0.329	0.500	pCi/g							
Uranium-238		1.70	+/-0.575	0.293	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.297	+/-0.423	0.739	1.00	pCi/g			JJ3	10/06/20	2116	2046353	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	0949	2046329

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/Solid "Dry Weight Corrected"			71.9	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			93.3	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-17-1
Sample ID: 522863016
Matrix: Soil
Collect Date: 26-SEP-20 09:47
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.23%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		4.37	+/-0.798	0.344	0.500	pCi/g			MXS2	10/05/20	1608	2046418	1
Uranium-235/236		0.283	+/-0.254	0.275	0.500	pCi/g							
Uranium-238		2.28	+/-0.578	0.270	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0673	+/-0.468	0.806	1.00	pCi/g			JJ3	10/06/20	2217	2046353	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	0949	2046329

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/Solid "Dry Weight Corrected"			74.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			93.3	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-17-2
Sample ID: 522863017
Matrix: Soil
Collect Date: 26-SEP-20 09:55
Receive Date: 30-SEP-20
Collector: Client
Moisture: 12.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		5.18	+/-0.830	0.275	0.500	pCi/g			MXS2	10/05/20	1608	2046418	1
Uranium-235/236		0.357	+/-0.262	0.232	0.500	pCi/g							
Uranium-238		2.16	+/-0.541	0.238	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.397	+/-0.461	0.808	1.00	pCi/g			JJ3	10/06/20	2318	2046353	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	0949	2046329

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/Solid "Dry Weight Corrected"			83.1	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92.6	(15%-125%)

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

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: October 7, 2020

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

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

Client Sample ID: C-17-3
Sample ID: 522863018
Matrix: Soil
Collect Date: 26-SEP-20 10:01
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.46%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		0.862	+/-0.476	0.407	0.500	pCi/g			MXS2	10/05/20	1123	2046418	1
Uranium-235/236	U	0.0376	+/-0.209	0.401	0.500	pCi/g							
Uranium-238		1.33	+/-0.563	0.281	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.229	+/-0.418	0.727	1.00	pCi/g			JJ3	10/07/20	0020	2046353	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	0949	2046329

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/Solid "Dry Weight Corrected"			68.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			96.6	(15%-125%)

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

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: October 7, 2020

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

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

Client Sample ID: C-17-4
Sample ID: 522863019
Matrix: Soil
Collect Date: 26-SEP-20 10:11
Receive Date: 30-SEP-20
Collector: Client
Moisture: 13%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		3.92	+/-0.792	0.279	0.500	pCi/g			MXS2	10/05/20	1123	2046418	1
Uranium-235/236		0.289	+/-0.262	0.240	0.500	pCi/g							
Uranium-238		2.06	+/-0.574	0.195	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.181	+/-0.437	0.757	1.00	pCi/g			JJ3	10/07/20	0234	2046353	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	0949	2046329

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/Solid "Dry Weight Corrected"			89.6	(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
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

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

Certificate of Analysis

Report Date: October 7, 2020

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

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

Client Sample ID: C-17-5
Sample ID: 522863020
Matrix: Soil
Collect Date: 26-SEP-20 10:20
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.9%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		2.43	+/-0.632	0.298	0.500	pCi/g			MXS2	10/05/20	1123	2046418	1
Uranium-235/236		0.252	+/-0.244	0.151	0.500	pCi/g							
Uranium-238		1.46	+/-0.488	0.196	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.347	+/-0.445	0.779	1.00	pCi/g			JJ3	10/07/20	0335	2046353	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	0949	2046329

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/Solid "Dry Weight Corrected"			86.1	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92.9	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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

QC Summary

Report Date: October 7, 2020

Westinghouse Electric Company, LLC
PO Drawer R
Columbia, South Carolina

Contact: **Ms. Cynthia Teague**

Workorder: **522863**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2046460										
QC1204656688 522862015 DUP										
Fluoride	U	ND	U	ND	mg/kg	N/A			LXA2	10/02/20 17:28
QC1204656689 522862019 DUP										
Fluoride	J	0.804	J	0.850	mg/kg	5.55 ^		(+/-1.13)		10/02/20 18:49
QC1204656687 LCS										
Fluoride	24.8			24.4	mg/kg		98.2	(90%-110%)		10/02/20 16:34
QC1204656686 MB										
Fluoride			U	ND	mg/kg					10/02/20 16:07
QC1204656690 522862015 MS										
Fluoride	26.7 U	ND		7.14	mg/kg		26.7*	(75%-125%)		10/02/20 17:55
QC1204656691 522862019 MS										
Fluoride	27.6 J	0.804		9.09	mg/kg		30.1*	(75%-125%)		10/02/20 19:16
Batch 2046865										
QC1204657513 522863018 DUP										
Fluoride	J	1.09		1.28	mg/kg	16 ^		(+/-1.16)	LXA2	10/02/20 05:55
QC1204657511 LCS										
Fluoride	23.3			22.9	mg/kg		98.4	(90%-110%)		10/02/20 03:40
QC1204657510 MB										
Fluoride			U	ND	mg/kg					10/02/20 13:41
QC1204657515 522863018 MS										
Fluoride	27.5 J	1.09		8.62	mg/kg		27.4*	(75%-125%)		10/02/20 06:22

QC Summary

Workorder: **522863**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2046325											
QC1204656335 LCS											
Uranium-235	33.8				36.3	ug/kg		107	(80%-120%)	PRB	10/07/20 08:47
Uranium-238	4660				4980	ug/kg		107	(80%-120%)		
QC1204656339 LCS											
Uranium-234	49.5				53.2	ug/kg		108	(80%-120%)		10/07/20 02:25
QC1204656334 MB											
Uranium-234				U	ND	ug/kg					10/07/20 02:23
Uranium-235				U	ND	ug/kg					10/07/20 08:45
Uranium-238				U	ND	ug/kg					
QC1204656336 522862006 MS											
Uranium-235	39.5	J	12.3		53.9	ug/kg		106	(75%-125%)		10/07/20 08:50
Uranium-238	5440		1190		6940	ug/kg		106	(75%-125%)		
QC1204656340 522862006 MS											
Uranium-234	60.9	U	ND		64.5	ug/kg		105	(75%-125%)		10/07/20 02:28
QC1204656337 522862006 MSD											
Uranium-235	37.8	J	12.3		52.7	ug/kg	2.27	107	(0%-20%)		10/07/20 08:52
Uranium-238	5210		1190		6750	ug/kg	2.76	107	(0%-20%)		
QC1204656341 522862006 MSD											
Uranium-234	56.0	U	ND		59.1	ug/kg	8.74	105	(0%-20%)		10/07/20 02:29
QC1204656338 522862006 SDILT											
Uranium-234		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/07/20 02:31

QC Summary

Workorder: **522863**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2046325										
Uranium-235	J	0.0604	J	0.0112	ug/L	7.28		(0%-20%)	PRB	10/07/20 08:55
Uranium-238		5.88		1.14	ug/L	3.42		(0%-20%)		
Volatile-GC/MS										
Batch 2047333										
QC1204658518 LCS										
1,1,1,2-Tetrachloroethane	50.0			49.8	ug/kg		100	(74%-129%)	JP1	10/02/20 15:29
1,1,1-Trichloroethane	50.0			47.5	ug/kg		95	(73%-135%)		
1,1,2,2-Tetrachloroethane	50.0			47.9	ug/kg		96	(73%-122%)		
1,1,2-Trichloroethane	50.0			48.0	ug/kg		96	(75%-120%)		
1,1-Dichloroethane	50.0			47.9	ug/kg		96	(75%-122%)		
1,1-Dichloroethylene	50.0			49.4	ug/kg		99	(71%-130%)		
1,2,3-Trichloropropane	50.0			46.3	ug/kg		93	(73%-123%)		
1,2,4-Trichlorobenzene	50.0			53.7	ug/kg		107	(69%-130%)		
1,2-Dibromo-3-chloropropane	50.0			48.5	ug/kg		97	(67%-128%)		
1,2-Dibromoethane	50.0			49.2	ug/kg		98	(77%-123%)		
1,2-Dichloroethane	50.0			43.0	ug/kg		86	(72%-121%)		
1,2-Dichloropropane	50.0			48.4	ug/kg		97	(73%-122%)		

QC Summary

Workorder: **522863**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2047333											
2-Butanone	250			216	ug/kg		86	(62%-141%)	JP1	10/02/20	15:29
2-Hexanone	250			226	ug/kg		90	(58%-149%)			
4-Methyl-2-pentanone	250			228	ug/kg		91	(65%-123%)			
Acetone	250			205	ug/kg		82	(60%-143%)			
Acetonitrile	1250			1100	ug/kg		88	(54%-120%)			
Benzene	50.0			45.3	ug/kg		91	(73%-122%)			
Bromodichloromethane	50.0			47.4	ug/kg		95	(76%-129%)			
Bromoform	50.0			57.0	ug/kg		114	(69%-131%)			
Bromomethane	50.0			56.4	ug/kg		113	(66%-132%)			
Carbon disulfide	250			234	ug/kg		94	(66%-134%)			
Carbon tetrachloride	50.0			48.4	ug/kg		97	(71%-140%)			
Chlorobenzene	50.0			48.2	ug/kg		96	(73%-120%)			
Chloroethane	50.0			50.9	ug/kg		102	(67%-129%)			
Chloroform	50.0			48.9	ug/kg		98	(75%-123%)			
Chloromethane	50.0			44.7	ug/kg		89	(58%-129%)			

QC Summary

Workorder: **522863**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2047333											
Dibromochloromethane	50.0			53.1	ug/kg		106	(75%-129%)	JP1	10/02/20	15:29
Dibromomethane	50.0			46.3	ug/kg		93	(76%-121%)			
Dichlorodifluoromethane	50.0			37.7	ug/kg		75	(43%-158%)			
Ethylbenzene	50.0			46.2	ug/kg		92	(72%-123%)			
Iodomethane	250			250	ug/kg		100	(69%-126%)			
Methylene chloride	50.0			43.4	ug/kg		87	(68%-124%)			
Styrene	50.0			48.5	ug/kg		97	(72%-127%)			
Tetrachloroethylene	50.0			51.3	ug/kg		103	(68%-129%)			
Toluene	50.0			45.4	ug/kg		91	(72%-120%)			
Trichloroethylene	50.0			45.5	ug/kg		91	(72%-127%)			
Trichlorofluoromethane	50.0			45.1	ug/kg		90	(69%-135%)			
Vinyl acetate	250			243	ug/kg		97	(59%-139%)			
Vinyl chloride	50.0			46.5	ug/kg		93	(67%-135%)			
Xylenes (total)	150			141	ug/kg		94	(66%-126%)			
cis-1,3-Dichloropropylene	50.0			48.7	ug/kg		97	(78%-129%)			

QC Summary

Workorder: 522863

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2047333											
trans-1,2-Dichloroethylene	50.0			49.0	ug/kg		98	(74%-124%)	JP1	10/02/20	15:29
trans-1,3-Dichloropropylene	50.0			48.6	ug/kg		97	(78%-127%)			
**1,2-Dichloroethane-d4	50.0			50.4	ug/L		101	(81%-124%)			
**Bromofluorobenzene	50.0			49.9	ug/L		100	(70%-130%)			
**Toluene-d8	50.0			51.7	ug/L		103	(81%-120%)			
QC1204658519 LCS											
1,1,1,2-Tetrachloroethane	50.0			47.3	ug/kg		95	(74%-129%)		10/05/20	18:46
1,1,1-Trichloroethane	50.0			45.3	ug/kg		91	(73%-135%)			
1,1,2,2-Tetrachloroethane	50.0			48.1	ug/kg		96	(73%-122%)			
1,1,2-Trichloroethane	50.0			47.3	ug/kg		95	(75%-120%)			
1,1-Dichloroethane	50.0			45.8	ug/kg		92	(75%-122%)			
1,1-Dichloroethylene	50.0			46.4	ug/kg		93	(71%-130%)			
1,2,3-Trichloropropane	50.0			47.3	ug/kg		95	(73%-123%)			
1,2,4-Trichlorobenzene	50.0			51.1	ug/kg		102	(69%-130%)			
1,2-Dibromo-3-chloropropane	50.0			50.8	ug/kg		102	(67%-128%)			
1,2-Dibromoethane	50.0			48.7	ug/kg		97	(77%-123%)			

QC Summary

Workorder: **522863**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
1,2-Dichloroethane	50.0			42.7	ug/kg		85	(72%-121%)	JP1	10/05/20 18:46
1,2-Dichloropropane	50.0			47.2	ug/kg		94	(73%-122%)		
2-Butanone	250			230	ug/kg		92	(62%-141%)		
2-Hexanone	250			244	ug/kg		98	(58%-149%)		
4-Methyl-2-pentanone	250			239	ug/kg		96	(65%-123%)		
Acetone	250			214	ug/kg		86	(60%-143%)		
Acetonitrile	1250			1130	ug/kg		91	(54%-120%)		
Benzene	50.0			43.4	ug/kg		87	(73%-122%)		
Bromodichloromethane	50.0			46.4	ug/kg		93	(76%-129%)		
Bromoform	50.0			56.2	ug/kg		112	(69%-131%)		
Bromomethane	50.0			66.6	ug/kg		133*	(66%-132%)		
Carbon disulfide	250			219	ug/kg		88	(66%-134%)		
Carbon tetrachloride	50.0			46.0	ug/kg		92	(71%-140%)		
Chlorobenzene	50.0			45.9	ug/kg		92	(73%-120%)		
Chloroethane	50.0			59.0	ug/kg		118	(67%-129%)		

QC Summary

Workorder: **522863**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
Chloroform	50.0			47.3	ug/kg		95	(75%-123%)	JP1	10/05/20 18:46
Chloromethane	50.0			55.0	ug/kg		110	(58%-129%)		
Dibromochloromethane	50.0			51.6	ug/kg		103	(75%-129%)		
Dibromomethane	50.0			46.0	ug/kg		92	(76%-121%)		
Dichlorodifluoromethane	50.0			54.7	ug/kg		109	(43%-158%)		
Ethylbenzene	50.0			43.8	ug/kg		88	(72%-123%)		
Iodomethane	250			237	ug/kg		95	(69%-126%)		
Methylene chloride	50.0			42.5	ug/kg		85	(68%-124%)		
Styrene	50.0			46.4	ug/kg		93	(72%-127%)		
Tetrachloroethylene	50.0			48.1	ug/kg		96	(68%-129%)		
Toluene	50.0			42.8	ug/kg		86	(72%-120%)		
Trichloroethylene	50.0			43.9	ug/kg		88	(72%-127%)		
Trichlorofluoromethane	50.0			52.4	ug/kg		105	(69%-135%)		
Vinyl acetate	250			284	ug/kg		114	(59%-139%)		
Vinyl chloride	50.0			56.2	ug/kg		112	(67%-135%)		

QC Summary

Workorder: **522863**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
Xylenes (total)	150			133	ug/kg		89	(66%-126%)	JP1	10/05/20 18:46
cis-1,3-Dichloropropylene	50.0			48.1	ug/kg		96	(78%-129%)		
trans-1,2-Dichloroethylene	50.0			46.8	ug/kg		94	(74%-124%)		
trans-1,3-Dichloropropylene	50.0			47.3	ug/kg		95	(78%-127%)		
**1,2-Dichloroethane-d4	50.0			51.8	ug/L		104	(81%-124%)		
**Bromofluorobenzene	50.0			48.6	ug/L		97	(70%-130%)		
**Toluene-d8	50.0			50.9	ug/L		102	(81%-120%)		
QC1204658514 MB										
1,1,1,2-Tetrachloroethane			U	ND	ug/kg					10/02/20 16:47
1,1,1-Trichloroethane			U	ND	ug/kg					
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-Trichloropropane			U	ND	ug/kg					
1,2,4-Trichlorobenzene			U	ND	ug/kg					

QC Summary

Workorder: **522863**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
1,2-Dibromo-3-chloropropane			U	ND	ug/kg				JP1	10/02/20 16:47
1,2-Dibromoethane			U	ND	ug/kg					
1,2-Dichloroethane			U	ND	ug/kg					
1,2-Dichloropropane			U	ND	ug/kg					
2-Butanone			U	ND	ug/kg					
2-Chloro-1,3-butadiene			U	ND	ug/kg					
2-Hexanone			U	ND	ug/kg					
4-Methyl-2-pentanone			U	ND	ug/kg					
Acetone			U	ND	ug/kg					
Acetonitrile			U	ND	ug/kg					
Acrolein			U	ND	ug/kg					
Acrylonitrile			U	ND	ug/kg					
Allyl chloride			U	ND	ug/kg					
Benzene			U	ND	ug/kg					
Bromodichloromethane			U	ND	ug/kg					

QC Summary

Workorder: **522863**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
Bromoform			U	ND	ug/kg				JP1	10/02/20 16:47
Bromomethane			U	ND	ug/kg					
Carbon disulfide			U	ND	ug/kg					
Carbon tetrachloride			U	ND	ug/kg					
Chlorobenzene			U	ND	ug/kg					
Chloroethane			U	ND	ug/kg					
Chloroform			U	ND	ug/kg					
Chloromethane			U	ND	ug/kg					
Dibromochloromethane			U	ND	ug/kg					
Dibromomethane			U	ND	ug/kg					
Dichlorodifluoromethane			U	ND	ug/kg					
Ethyl methacrylate			U	ND	ug/kg					
Ethylbenzene			U	ND	ug/kg					
Iodomethane			U	ND	ug/kg					
Isobutyl alcohol			U	ND	ug/kg					

QC Summary

Workorder: **522863**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
Methacrylonitrile			U	ND	ug/kg				JP1	10/02/20 16:47
Methyl methacrylate			U	ND	ug/kg					
Methylene chloride			U	ND	ug/kg					
Pentachloroethane			U	ND	ug/kg					
Propionitrile			U	ND	ug/kg					
Styrene			U	ND	ug/kg					
Tetrachloroethylene			U	ND	ug/kg					
Toluene			U	ND	ug/kg					
Trichloroethylene			U	ND	ug/kg					
Trichlorofluoromethane			U	ND	ug/kg					
Vinyl acetate			U	ND	ug/kg					
Vinyl chloride			U	ND	ug/kg					
Xylenes (total)			U	ND	ug/kg					
bis(2-Chloro-1-methylethyl)ether			U	ND	ug/kg					
cis-1,3-Dichloropropylene			U	ND	ug/kg					

QC Summary

Workorder: **522863**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
trans-1,2-Dichloroethylene			U	ND	ug/kg				JP1	10/02/20 16:47
trans-1,3-Dichloropropylene			U	ND	ug/kg					
trans-1,4-Dichloro-2-butene			U	ND	ug/kg					
**1,2-Dichloroethane-d4	50.0			48.9	ug/L		98	(81%-124%)		
**Bromofluorobenzene	50.0			47.9	ug/L		96	(70%-130%)		
**Toluene-d8	50.0			50.9	ug/L		102	(81%-120%)		
QC1204658515 MB										
1,1,1,2-Tetrachloroethane			U	ND	ug/kg					10/05/20 20:04
1,1,1-Trichloroethane			U	ND	ug/kg					
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-Trichloropropane			U	ND	ug/kg					
1,2,4-Trichlorobenzene			U	ND	ug/kg					
1,2-Dibromo-3-chloropropane			U	ND	ug/kg					

QC Summary

Workorder: **522863**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2047333											
1,2-Dibromoethane			U	ND	ug/kg				JP1	10/05/20	20:04
1,2-Dichloroethane			U	ND	ug/kg						
1,2-Dichloropropane			U	ND	ug/kg						
2-Butanone			U	ND	ug/kg						
2-Chloro-1,3-butadiene			U	ND	ug/kg						
2-Hexanone			U	ND	ug/kg						
4-Methyl-2-pentanone			U	ND	ug/kg						
Acetone			U	ND	ug/kg						
Acetonitrile			U	ND	ug/kg						
Acrolein			U	ND	ug/kg						
Acrylonitrile			U	ND	ug/kg						
Allyl chloride			U	ND	ug/kg						
Benzene			U	ND	ug/kg						
Bromodichloromethane			U	ND	ug/kg						
Bromoform			U	ND	ug/kg						

QC Summary

Workorder: **522863**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2047333											
Bromomethane			U	ND	ug/kg				JP1	10/05/20	20:04
Carbon disulfide			U	ND	ug/kg						
Carbon tetrachloride			U	ND	ug/kg						
Chlorobenzene			U	ND	ug/kg						
Chloroethane			U	ND	ug/kg						
Chloroform			U	ND	ug/kg						
Chloromethane			U	ND	ug/kg						
Dibromochloromethane			U	ND	ug/kg						
Dibromomethane			U	ND	ug/kg						
Dichlorodifluoromethane			U	ND	ug/kg						
Ethyl methacrylate			U	ND	ug/kg						
Ethylbenzene			U	ND	ug/kg						
Iodomethane			U	ND	ug/kg						
Isobutyl alcohol			U	ND	ug/kg						
Methacrylonitrile			U	ND	ug/kg						

QC Summary

Workorder: **522863**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
Methyl methacrylate			U	ND	ug/kg				JP1	10/05/20 20:04
Methylene chloride			U	ND	ug/kg					
Pentachloroethane			U	ND	ug/kg					
Propionitrile			U	ND	ug/kg					
Styrene			U	ND	ug/kg					
Tetrachloroethylene			U	ND	ug/kg					
Toluene			U	ND	ug/kg					
Trichloroethylene			U	ND	ug/kg					
Trichlorofluoromethane			U	ND	ug/kg					
Vinyl acetate			U	ND	ug/kg					
Vinyl chloride			U	ND	ug/kg					
Xylenes (total)			U	ND	ug/kg					
bis(2-Chloro-1-methylethyl)ether			U	ND	ug/kg					
cis-1,3-Dichloropropylene			U	ND	ug/kg					
trans-1,2-Dichloroethylene			U	ND	ug/kg					

QC Summary

Workorder: **522863**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2047333											
trans-1,3-Dichloropropylene				U	ND	ug/kg				JP1	10/05/20 20:04
trans-1,4-Dichloro-2-butene				U	ND	ug/kg					
**1,2-Dichloroethane-d4	50.0				50.7	ug/L		101	(81%-124%)		
**Bromofluorobenzene	50.0				47.1	ug/L		94	(70%-130%)		
**Toluene-d8	50.0				51.0	ug/L		102	(81%-120%)		
QC1204658521 522197001 PS											
1,1,1,2-Tetrachloroethane	50.0	U	ND		42.2	ug/L		84	(55%-133%)		10/06/20 02:57
1,1,1-Trichloroethane	50.0	U	ND		42.8	ug/L		86	(65%-137%)		
1,1,2,2-Tetrachloroethane	50.0	U	ND		43.1	ug/L		86	(60%-133%)		
1,1,2-Trichloroethane	50.0	U	ND		43.1	ug/L		86	(46%-136%)		
1,1-Dichloroethane	50.0	U	ND		42.8	ug/L		86	(65%-126%)		
1,1-Dichloroethylene	50.0	U	ND		41.8	ug/L		84	(57%-138%)		
1,2,3-Trichloropropane	50.0	U	ND		42.7	ug/L		85	(63%-132%)		
1,2,4-Trichlorobenzene	50.0	U	ND		41.6	ug/L		83	(38%-150%)		
1,2-Dibromo-3-chloropropane	50.0	U	ND		47.1	ug/L		94	(47%-135%)		
1,2-Dibromoethane	50.0	U	ND		43.0	ug/L		86	(54%-134%)		

QC Summary

Workorder: **522863**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2047333											
1,2-Dichloroethane	50.0	U	ND		38.9	ug/L		78	(62%-125%)	JP1	10/06/20 02:57
1,2-Dichloropropane	50.0	U	ND		44.4	ug/L		89	(58%-127%)		
2-Butanone	250	J	4.54		205	ug/L		80	(40%-147%)		
2-Hexanone	250	U	ND		210	ug/L		84	(28%-152%)		
4-Methyl-2-pentanone	250	U	ND		210	ug/L		84	(47%-135%)		
Acetone	250	U	ND		171	ug/L		68	(30%-151%)		
Acetonitrile	1250	U	ND		1010	ug/L		81	(36%-141%)		
Benzene	50.0	U	ND		40.4	ug/L		81	(56%-129%)		
Bromodichloromethane	50.0	U	ND		43.3	ug/L		87	(58%-135%)		
Bromoform	50.0	U	ND		49.8	ug/L		100	(56%-138%)		
Bromomethane	50.0	U	ND		23.9	ug/L		48	(30%-135%)		
Carbon disulfide	250	U	ND		199	ug/L		80	(51%-145%)		
Carbon tetrachloride	50.0	U	ND		43.5	ug/L		87	(53%-143%)		
Chlorobenzene	50.0	U	ND		39.1	ug/L		78	(48%-127%)		
Chloroethane	50.0	U	ND		61.8	ug/L		124	(45%-130%)		

QC Summary

Workorder: **522863**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2047333											
Chloroform	50.0	U	ND		43.8	ug/L		88	(66%-125%)	JP1	10/06/20 02:57
Chloromethane	50.0	U	ND		61.6	ug/L		123	(42%-150%)		
Dibromochloromethane	50.0	U	ND		46.4	ug/L		93	(53%-138%)		
Dibromomethane	50.0	U	ND		42.0	ug/L		84	(62%-124%)		
Dichlorodifluoromethane	50.0	U	ND		62.7	ug/L		125	(40%-142%)		
Ethylbenzene	50.0	U	ND		36.8	ug/L		74	(45%-132%)		
Iodomethane	250	U	ND		207	ug/L		83	(57%-135%)		
Methylene chloride	50.0	U	ND		38.6	ug/L		77	(60%-127%)		
Styrene	50.0	U	ND		38.4	ug/L		77	(39%-137%)		
Tetrachloroethylene	50.0	J	0.390		41.7	ug/L		83	(51%-138%)		
Toluene	50.0	J	0.380		38.2	ug/L		76	(56%-132%)		
Trichloroethylene	50.0	U	ND		39.9	ug/L		80	(56%-136%)		
Trichlorofluoromethane	50.0		7.96		82.9	ug/L		150*	(55%-135%)		
Vinyl acetate	250	U	ND		208	ug/L		83	(45%-139%)		
Vinyl chloride	50.0	U	ND		60.9	ug/L		122	(50%-145%)		

QC Summary

Workorder: **522863**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2047333											
Xylenes (total)	150	J	1.30		112	ug/L		74	(38%-136%)	JP1	10/06/20 02:57
cis-1,3-Dichloropropylene	50.0	U	ND		42.6	ug/L		85	(47%-139%)		
trans-1,2-Dichloroethylene	50.0	U	ND		41.7	ug/L		83	(57%-129%)		
trans-1,3-Dichloropropylene	50.0	U	ND		40.9	ug/L		82	(48%-138%)		
**1,2-Dichloroethane-d4	50.0		49.6		49.9	ug/L		100	(81%-124%)		
**Bromofluorobenzene	50.0		47.7		49.6	ug/L		99	(70%-130%)		
**Toluene-d8	50.0		51.6		51.9	ug/L		104	(81%-120%)		
QC1204658522 522197001 PSD											
1,1,1,2-Tetrachloroethane	50.0	U	ND		42.2	ug/L	0	84	(0%-20%)		10/06/20 03:22
1,1,1-Trichloroethane	50.0	U	ND		44.9	ug/L	5	90	(0%-20%)		
1,1,2,2-Tetrachloroethane	50.0	U	ND		44.7	ug/L	4	89	(0%-20%)		
1,1,2-Trichloroethane	50.0	U	ND		44.0	ug/L	2	88	(0%-20%)		
1,1-Dichloroethane	50.0	U	ND		43.7	ug/L	2	87	(0%-20%)		
1,1-Dichloroethylene	50.0	U	ND		43.9	ug/L	5	88	(0%-20%)		
1,2,3-Trichloropropane	50.0	U	ND		44.5	ug/L	4	89	(0%-20%)		
1,2,4-Trichlorobenzene	50.0	U	ND		43.5	ug/L	4	87	(0%-20%)		

QC Summary

Workorder: **522863**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2047333											
1,2-Dibromo-3-chloropropane	50.0	U	ND		51.6	ug/L	9	103	(0%-20%)	JP1	10/06/20 03:22
1,2-Dibromoethane	50.0	U	ND		44.4	ug/L	3	89	(0%-20%)		
1,2-Dichloroethane	50.0	U	ND		40.4	ug/L	4	81	(0%-20%)		
1,2-Dichloropropane	50.0	U	ND		46.1	ug/L	4	92	(0%-20%)		
2-Butanone	250	J	4.54		221	ug/L	7	86	(0%-20%)		
2-Hexanone	250	U	ND		223	ug/L	6	89	(0%-20%)		
4-Methyl-2-pentanone	250	U	ND		220	ug/L	5	88	(0%-20%)		
Acetone	250	U	ND		175	ug/L	2	70	(0%-20%)		
Acetonitrile	1250	U	ND		966	ug/L	5	77	(0%-20%)		
Benzene	50.0	U	ND		41.4	ug/L	2	83	(0%-20%)		
Bromodichloromethane	50.0	U	ND		45.1	ug/L	4	90	(0%-20%)		
Bromoform	50.0	U	ND		52.8	ug/L	6	106	(0%-20%)		
Bromomethane	50.0	U	ND		48.2	ug/L	67*	96	(0%-20%)		
Carbon disulfide	250	U	ND		206	ug/L	3	82	(0%-20%)		
Carbon tetrachloride	50.0	U	ND		45.5	ug/L	5	91	(0%-20%)		

QC Summary

Workorder: **522863**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2047333											
Chlorobenzene	50.0	U	ND		38.7	ug/L	1	77	(0%-20%)	JP1	10/06/20 03:22
Chloroethane	50.0	U	ND		57.8	ug/L	7	116	(0%-20%)		
Chloroform	50.0	U	ND		45.0	ug/L	3	90	(0%-20%)		
Chloromethane	50.0	U	ND		61.1	ug/L	1	122	(0%-20%)		
Dibromochloromethane	50.0	U	ND		48.4	ug/L	4	97	(0%-20%)		
Dibromomethane	50.0	U	ND		43.7	ug/L	4	87	(0%-20%)		
Dichlorodifluoromethane	50.0	U	ND		64.6	ug/L	3	129	(0%-20%)		
Ethylbenzene	50.0	U	ND		35.9	ug/L	2	72	(0%-20%)		
Iodomethane	250	U	ND		216	ug/L	4	87	(0%-20%)		
Methylene chloride	50.0	U	ND		39.8	ug/L	3	80	(0%-20%)		
Styrene	50.0	U	ND		38.4	ug/L	0	77	(0%-20%)		
Tetrachloroethylene	50.0	J	0.390		41.1	ug/L	1	81	(0%-20%)		
Toluene	50.0	J	0.380		38.0	ug/L	0	75	(0%-20%)		
Trichloroethylene	50.0	U	ND		40.8	ug/L	2	82	(0%-20%)		
Trichlorofluoromethane	50.0		7.96		81.6	ug/L	2	147*	(0%-20%)		

QC Summary

Workorder: 522863

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2047333											
Vinyl acetate	250	U	ND		220	ug/L	5	88	(0%-20%)	JP1	10/06/20 03:22
Vinyl chloride	50.0	U	ND		61.3	ug/L	1	123	(0%-20%)		
Xylenes (total)	150	J	1.30		111	ug/L	1	73	(0%-20%)		
cis-1,3-Dichloropropylene	50.0	U	ND		44.1	ug/L	4	88	(0%-20%)		
trans-1,2-Dichloroethylene	50.0	U	ND		42.4	ug/L	2	85	(0%-20%)		
trans-1,3-Dichloropropylene	50.0	U	ND		41.8	ug/L	2	84	(0%-20%)		
**1,2-Dichloroethane-d4	50.0		49.6		49.8	ug/L		100	(81%-124%)		
**Bromofluorobenzene	50.0		47.7		48.8	ug/L		98	(70%-130%)		
**Toluene-d8	50.0		51.6		50.3	ug/L		101	(81%-120%)		

Notes:

The Qualifiers in this report are defined as follows:

- ** 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

QC Summary

Workorder: **522863**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

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
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.

QC Summary

Report Date: October 7, 2020

Westinghouse Electric Company, LLC
PO Drawer R
Columbia, South Carolina

Contact: **Ms. Cynthia Teague**

Workorder: **522863**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2046460										
QC1204656688 522862015 DUP										
Fluoride	U	0.000	U	0.000	mg/kg	N/A			LXA2	10/02/20 17:28
QC1204656689 522862019 DUP										
Fluoride	J	0.804	J	0.850	mg/kg	5.55 ^		(+/-1.13)		10/02/20 18:49
QC1204656687 LCS										
Fluoride	24.8			24.4	mg/kg		98.2	(90%-110%)		10/02/20 16:34
QC1204656686 MB										
Fluoride			U	0.000	mg/kg					10/02/20 16:07
QC1204656690 522862015 MS										
Fluoride	26.7 U	0.000		7.14	mg/kg		26.7*	(75%-125%)		10/02/20 17:55
QC1204656691 522862019 MS										
Fluoride	27.6 J	0.804		9.09	mg/kg		30.1*	(75%-125%)		10/02/20 19:16
Batch 2046865										
QC1204657513 522863018 DUP										
Fluoride	J	1.09		1.28	mg/kg	16 ^		(+/-1.16)	LXA2	10/02/20 05:55
QC1204657511 LCS										
Fluoride	23.3			22.9	mg/kg		98.4	(90%-110%)		10/02/20 03:40
QC1204657510 MB										
Fluoride			U	0.000	mg/kg					10/02/20 13:41
QC1204657515 522863018 MS										
Fluoride	27.5 J	1.09		8.62	mg/kg		27.4*	(75%-125%)		10/02/20 06:22

QC Summary

Workorder: **522863**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Alpha Spec										
Batch 2046418										
QC1204656561 522863001 DUP										
Uranium-233/234		2.09		1.82	pCi/g	13.8		(0%-20%)	MXS2	10/05/20 11:23
Uranium-235/236	U	0.122		0.389	pCi/g	58.8		(0% - 100%)		
Uranium-238		1.20		1.18	pCi/g	2.09		(0% - 100%)		
QC1204656562 LCS										
Uranium-233/234				12.3	pCi/g					10/05/20 11:23
Uranium-235/236				0.794	pCi/g					
Uranium-238	12.3			12.5	pCi/g		101	(75%-125%)		
QC1204656560 MB										
Uranium-233/234			U	0.0363	pCi/g					10/05/20 11:23
Uranium-235/236			U	0.0936	pCi/g					
Uranium-238			U	0.0484	pCi/g					
Rad Liquid Scintillation										
Batch 2046353										
QC1204656378 522863001 DUP										
Technetium-99	U	-0.304	U	-0.122	pCi/g	N/A		N/A	JJ3	10/07/20 05:37
QC1204656379 LCS										
Technetium-99	29.4			30.7	pCi/g		104	(75%-125%)		10/07/20 06:38
QC1204656377 MB										
Technetium-99			U	-0.152	pCi/g					10/07/20 04:36

Notes:

The Qualifiers in this report are defined as follows:

QC Summary

Workorder: **522863**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

**	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.
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

QC Summary

Workorder: **522863**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

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.

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: 2047333

Preparation Method: SW846 5035
Preparation Procedure: GL-OA-E-039 REV# 13
Preparation Batch: 2047332

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

GEL Sample ID#	Client Sample Identification
522863004	C-4-3
522863009	C-55-3
522863015	C-15-4
522863018	C-17-3
1204658514	Method Blank (MB)
1204658515	Method Blank (MB)
1204658518	Laboratory Control Sample (LCS)
1204658519	Laboratory Control Sample (LCS)
1204658521	522197001(NonSDG) Post Spike (PS)
1204658522	522197001(NonSDG) Post Spike Duplicate (PSD)

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

Laboratory Control Sample (LCS) Recovery
The LCS/and or LCSD (See Below) recovery was not within the acceptance limits for all analytes. The unacceptable analyte was not detected in the samples associated with the laboratory control sample. Therefore, the data were reported.

Sample	Analyte	Value
1204658519 (LCS)	Bromomethane	133* (66%-132%)

Matrix Spike/Matrix Spike Duplicate Recovery Statement
The spike and/or spike duplicate (See Below) recoveries were not all within the acceptance limits. The recoveries were similar. It is believed possible matrix interference has been demonstrated.

Sample	Analyte	Value
1204658521 (Non SDG 522197001PS)	Trichlorofluoromethane	150* (55%-135%)
1204658522 (Non SDG 522197001PSD)	Trichlorofluoromethane	147* (55%-135%)

Relative Percent Difference (RPD) Statement
The RPD between the matrix spike pair (See Below) were not all within the acceptance limits. The unacceptable RPD may be attributed to matrix interference and/or sample non-homogeneity.

Sample	Analyte	Value
1204658521PS and 1204658522PSD (Non SDG 522197001)	Bromomethane	RPD 67* (0%-20%)

Technical Information

Sample Dilutions/Methanol Dilutions
Samples were analyzed using a methanol dilution extraction procedure because the sample matrices were not amenable to more concentrated analyses.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3050B/6020B
Analytical Procedure: GL-MA-E-014 REV# 34
Analytical Batch: 2046325

Preparation Method: SW846 3050B
Preparation Procedure: GL-MA-E-009 REV# 29
Preparation Batch: 2046324

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

GEL Sample ID#	Client Sample Identification
522863001	C-64-5
522863011	C-55-5
1204656334	Method Blank (MB)**ICP-MS**
1204656335	Laboratory Control Sample (LCS)
1204656339	Laboratory Control Sample (LCS)
1204656338	522862006(C-22-6L) Serial Dilution (SD)
1204656336	522862006(C-22-6S) Matrix Spike (MS)
1204656340	522862006(C-22-6S) Matrix Spike (MS)
1204656337	522862006(C-22-6SD) Matrix Spike Duplicate (MSD)
1204656341	522862006(C-22-6SD) Matrix Spike Duplicate (MSD)

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.

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	522863	
	001	011
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: 2046460 and 2046459

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

GEL Sample ID#	Client Sample Identification
522863001	C-64-5
522863002	C-4-1
522863003	C-4-2
522863004	C-4-3
522863005	C-4-4
522863006	C-4-5
522863007	C-55-1
522863008	C-55-2
522863009	C-55-3
522863010	C-55-4
522863011	C-55-5
522863012	C-15-1
522863013	C-15-2
522863014	C-15-3
522863015	C-15-4

522863016	C-17-1
522863017	C-17-2
1204656686	Method Blank (MB)
1204656687	Laboratory Control Sample (LCS)
1204656688	522862015(C-61-4) Sample Duplicate (DUP)
1204656689	522862019(C-64-3) Sample Duplicate (DUP)
1204656690	522862015(C-61-4) Matrix Spike (MS)
1204656691	522862019(C-64-3) 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	1204656690 (C-61-4MS)	26.7* (75%-125%)
	1204656691 (C-64-3MS)	30.1* (75%-125%)

Product: **Ion Chromatography**
Analytical Method: SW846 9056A
Analytical Procedure: GL-GC-E-086 REV# 28
Analytical Batches: 2046865 and 2046854

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

GEL Sample ID#	Client Sample Identification
522863018	C-17-3
522863019	C-17-4
522863020	C-17-5
1204657510	Method Blank (MB)
1204657511	Laboratory Control Sample (LCS)
1204657513	522863018(C-17-3) Sample Duplicate (DUP)
1204657515	522863018(C-17-3) 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	1204657515 (C-17-3MS)	27.4* (75%-125%)

Radiochemistry

Product: **Alphaspec U, Soil/Veg/Solid**
Analytical Method: DOE EML HASL-300, U-02-RC Modified
Analytical Procedure: GL-RAD-A-011 REV# 28
Analytical Batch: 2046418

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2046329

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

GEL Sample ID#	Client Sample Identification
522863001	C-64-5
522863002	C-4-1
522863003	C-4-2
522863004	C-4-3
522863005	C-4-4
522863006	C-4-5
522863007	C-55-1
522863008	C-55-2
522863009	C-55-3
522863010	C-55-4
522863011	C-55-5
522863012	C-15-1
522863013	C-15-2
522863014	C-15-3
522863015	C-15-4
522863016	C-17-1
522863017	C-17-2
522863018	C-17-3
522863019	C-17-4
522863020	C-17-5
1204656560	Method Blank (MB)
1204656561	522863001(C-64-5) Sample Duplicate (DUP)
1204656562	Laboratory Control Sample (LCS)

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.

Miscellaneous Information

Manual Integration
Manual integration of alpha spectroscopy spectra 522863014 (C-15-3) was performed to fully separate counts in Regions of Interest which would have been biased.

Additional Comments
The tracer peak centroid for sample 522863014 (C-15-3) is greater than 50 keV from the expected library energy value for the tracer; however, the tracer yield requirement was met and the tracer peak is within the tracer region of interest.

Product: **Dry Weight**
Preparation Method: ASTM D 2216 (Modified)
Preparation Procedure: GL-OA-E-020 REV# 13
Preparation Batch: 2046329

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2046329

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

GEL Sample ID#	Client Sample Identification
522863001	C-64-5
522863002	C-4-1
522863003	C-4-2
522863004	C-4-3
522863005	C-4-4
522863006	C-4-5
522863007	C-55-1
522863008	C-55-2
522863009	C-55-3
522863010	C-55-4
522863011	C-55-5
522863012	C-15-1
522863013	C-15-2
522863014	C-15-3
522863015	C-15-4
522863016	C-17-1
522863017	C-17-2
522863018	C-17-3
522863019	C-17-4

522863020	C-17-5
1204656347	522863001(C-64-5) 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: 2046353

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

GEL Sample ID#	Client Sample Identification
522863001	C-64-5
522863002	C-4-1
522863003	C-4-2
522863004	C-4-3
522863005	C-4-4
522863006	C-4-5
522863007	C-55-1
522863008	C-55-2
522863009	C-55-3
522863010	C-55-4
522863011	C-55-5
522863012	C-15-1
522863013	C-15-2
522863014	C-15-3
522863015	C-15-4
522863016	C-17-1
522863017	C-17-2
522863018	C-17-3
522863019	C-17-4
522863020	C-17-5
1204656377	Method Blank (MB)
1204656378	522863001(C-64-5) Sample Duplicate (DUP)
1204656379	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.

Page: 3 of 7
Project # Sealand Soil Sampling
GEL Quote #: WNUC009
COC Number (1):
PO # 4500778461, Line 1

GEL Laboratories LLC — gel.com — Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

522863

GEL Work Order Number: **GEL Project Manager:**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Westinghouse — Phone # 803.647.3171
Project/Site Name: — Fax # 803.695.3964
Address: 5801 Bluff Road, Hopkins, SC 29061
Collected By: Randy Crews [signature] Send Results To: Teaguecj@westinghouse.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

<-- Preservative Type (6)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Radioactive (If yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of containers	Isotopic Uranium by Alpha Spec	Isotopic Uranium by ICPMS	Tc-99	Fluoride	VOCs						Comments: Note: extra sample is required for sample specific QC
C-64-5	9/24/2020	1208	G		SO			1	X	X	X	X							
C-4-1	9/25/2020	1147	G		SO			1	X		X	X							
C-4-2	9/25/2020	1151	G		SO			1	X		X	X							
C-4-3	9/25/2020	1155	G		SO			2	X		X	X	X						
C-4-4	9/25/2020	1204	G		SO			1	X		X	X							
C-4-5	9/25/2020	1210	G		SO			1	X		X	X							
C-55-1	9/25/2020	1117	G		SO			1	X		X	X							
C-55-2	9/25/2020	1121	G		SO			1	X		X	X							
C-55-3	9/25/2020	1126	G		SO			2	X		X	X	X						
C-55-4	9/25/2020	1134	G		SO			1	X		X	X							

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Randy Crews [signature]	09/30/2020	1002	1 Secure Location	09/30/2020	1002
2 Secure Location	09/30/2020	1105	2 [signature]	9-30-20	1105
3 [signature]	9-30-20	1530	[signature]	9/30/20	1530

TAT Requested: Normal: ____ Rush: X Specify: 5 days (1 week)

Fax Results: [ ] Yes [x] 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:*** 2 °C

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

Sample Collection Time Zone: [ ] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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**=Fecal, **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**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
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 concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 4 of 7
Project # Sealand Soil Sampling
GEL Quote #: WNUC009
COC Number (1):
PO # 4500778461, Line 1

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Westinghouse
Phone # 803.647.3171
Project/Site Name:
Fax # 803.695.3964
Address: 5801 Bluff Road, Hopkins, SC 29061
Collected By: Randy Crews
Send Results To: Teaguecj@westinghouse.com

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Isotopic Uranium by Alpha Spec	Isotopic Uranium by ICPMS	Tc-99	Fluoride	VOCs						<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
C-55-5	9/24/2020	1139	G		SO			1	X	X	X	X								
C-15-1	9/26/2020	0848	G		SO			1	X		X	X								
C-15-2	9/26/2020	0853	G		SO			1	X		X	X								
C-15-3	9/26/2020	0857	G		SO			1	X		X	X								
C-15-4	9/26/2020	0902	G		SO			2	X		X	X	X							
C-17-1	9/26/2020	0947	G		SO			1	X		X	X								
C-17-2	9/26/2020	0955	G		SO			1	X		X	X								
C-17-3	9/26/2020	1001	G		SO			2	X		X	X	X							
C-17-4	9/26/2020	1011	G		SO			1	X		X	X								
C-17-5	9/26/2020	1020	G		SO			1	X		X	X								

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Randy Crews	09/30/2020	1002	1 Secure Location	09/30/2020	1002
2 Secure Location	09/30/2020	1105	2	9/30/20	1105
3	9-30-20	1530		9/30/20	1530

TAT Requested: Normal: ____ Rush: X Specify: 5 days (1 week)

Fax Results: [ ] Yes [x] 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: 2 °C

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

Sample Collection Time Zone: [ ] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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**=Fecal, **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**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
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 concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: WMUC

SDG/AR/COC/Work Order: 522863

Received By: Tye

Date Received: 9/30/20

Carrier and Tracking Number

Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier 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?		✓	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?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	✓		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr. Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	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?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: "all temperatures are recorded in Celsius
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR3-19 TEMP: 2C Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers affected:
7	Do any samples require Volatile Analysis?	✓			If Preservation added, Lot#: Is headspace present for solids? Yes ✓ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			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?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials NRG Date 9/1/20 Page 1 of 1

List of current GEL Certifications as of 07 October 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

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
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gel.com

October 07, 2020

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

Re: ENV-CONSENTA-4500778461
Work Order: 522864

Dear Ms. Teague:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 30, 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

Lindsay Fabra
Project Manager

Purchase Order: PO 4500778461
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: 522864 GEL Work Order: 522864

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

GEL Laboratories LLC
a member of The GEL Group INC

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Analytical Detections Summary

SDG/Report#	522864	**Client**	Westinghouse Electric Co, LLC
Project ID	ENV-CONSENTA-4500778461		

GEL ID	Client Sample ID	Method	CAS	Analyte	Result	Q
522864001	C-34-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.716 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.68 pCi/g	
		SW846 3050B/6020B	7440-61-1	Uranium-238	1010 ug/kg	
522864002	C-34-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.768 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.32 pCi/g	
522864003	C-34-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.928 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.33 pCi/g	
522864004	C-34-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.727 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	0.947 pCi/g	
522864005	C-34-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.08 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.16 pCi/g	
522864006	C-38-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.904 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	0.965 pCi/g	
522864007	C-38-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.24 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.68 pCi/g	
522864008	C-38-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.682 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.54 pCi/g	
522864009	C-38-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.01 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.1 pCi/g	
522864010	C-38-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.551 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.08 pCi/g	
522864011	S-38-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.5 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	2.07 pCi/g	
		SW846 3050B/6020B	15117-96-1	Uranium-235	17.4 ug/kg	
			7440-61-1	Uranium-238	1490 ug/kg	
		SW846 9056A	16984-48-8	Fluoride	6.56 mg/kg	
522864012	S-38-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.534 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.09 pCi/g	
522864013	S-38-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.51 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	3.48 pCi/g	

GEL Laboratories LLC

Analytical Detections Summary

SDG/Report#	522864	**Client**	Westinghouse Electric Co, LLC
Project ID	ENV-CONSENTA-4500778461		

GEL ID	Client Sample ID	Method	CAS	Analyte	Result	Q
522864013	S-38-3	SW846 8260D	67-64-1	Acetone	82.4 ug/kg	
		SW846 9056A	16984-48-8	Fluoride	5.45 mg/kg	
522864014	S-38-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.834 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	3.3 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	8.09 mg/kg	
522864015	S-38-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	2.76 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	9.76 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	7.47 mg/kg	
522864016	C-47-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.29 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.62 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.65 mg/kg	
522864017	C-47-6	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.08 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	0.901 pCi/g	
			15117-96-1/1 3982-70-2	Uranium-235/236	0.192 pCi/g	
522864018	C-47-7	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	0.932 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.31 pCi/g	
522864019	C-47-8	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.06 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.68 pCi/g	
			15117-96-1/1 3982-70-2	Uranium-235/236	0.147 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	1.16 mg/kg	
522864020	C-8-1	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.47 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.33 pCi/g	
		SW846 3050B/6020B	15117-96-1	Uranium-235	26.1 ug/kg	
			7440-61-1	Uranium-238	3300 ug/kg	
		SW846 9056A	16984-48-8	Fluoride	6.65 mg/kg	
522864021	C-8-2	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.57 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	2.58 pCi/g	
			15117-96-1/1 3982-70-2	Uranium-235/236	0.15 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	17.3 mg/kg	
522864022	C-8-3	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.44 pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	1.22 pCi/g	
			15117-96-1/1 3982-70-2	Uranium-235/236	0.324 pCi/g	
		SW846 9056A	16984-48-8	Fluoride	6.13 mg/kg	
522864023	C-8-4	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	3.07 pCi/g	
			13968-55-3/1	Uranium-233/234	2.72 pCi/g	

Analytical Detections Summary

SDG/Report#	522864	**Client**	Westinghouse Electric Co, LLC
Project ID	ENV-CONSENTA-4500778461		

GEL ID	Client Sample ID	Method	CAS	Analyte	Result		Q
522864023	C-8-4	DOE EML HASL-300, U-02-RC Modified	3966-29-5				
		SW846 9056A	16984-48-8	Fluoride	11.8	mg/kg	
522864024	C-8-5	DOE EML HASL-300, U-02-RC Modified	7440-61-1	Uranium-238	1.71	pCi/g	
			13968-55-3/1 3966-29-5	Uranium-233/234	2.54	pCi/g	
			15117-96-1/1 3982-70-2	Uranium-235/236	0.325	pCi/g	
		SW846 9056A	16984-48-8	Fluoride	14.9	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: October 7, 2020

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

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

Client Sample ID: C-34-1
Sample ID: 522864001
Matrix: Soil
Collect Date: 26-SEP-20 08:10
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.491	0.363	1.07	mg/kg	9.50	1	LXA2	10/02/20	0959	2046865	1
Metals Analysis-ICP-MS												
SW846 3050B/6020B Isotopic Uranium-234/235/238 "Dry Weight Corrected"												
Uranium-234	U	ND	2.02	10.1	ug/kg	89.8	2	PRB	10/07/20	0240	2046325	2
Uranium-235	J	8.99	2.02	14.1	ug/kg	89.8	2	PRB	10/07/20	0905	2046325	3
Uranium-238		1010	13.3	40.4	ug/kg	89.8	2					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	SM1	10/01/20	0915	2046324
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/01/20	2107	2046854

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
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: October 7, 2020

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

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

Client Sample ID: C-34-2
Sample ID: 522864002
Matrix: Soil
Collect Date: 26-SEP-20 08:15
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.9%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.399	1.17	mg/kg	10.3	1	LXA2	10/02/20	1026	2046865	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/01/20	2107	2046854

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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: October 7, 2020

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

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

Client Sample ID: C-34-3
Sample ID: 522864003
Matrix: Soil
Collect Date: 26-SEP-20 08:20
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.828	0.373	1.10	mg/kg	9.85	1	LXA2	10/02/20	1053	2046865	1
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
1,1,1,2-Tetrachloroethane	U	ND	0.286	0.860	ug/kg	0.773	1	JP1	10/02/20	2314	2047333	2
1,1,1-Trichloroethane	U	ND	0.286	0.860	ug/kg	0.773	1					
1,1,2,2-Tetrachloroethane	U	ND	0.286	0.860	ug/kg	0.773	1					
1,1,2-Trichloroethane	U	ND	0.286	0.860	ug/kg	0.773	1					
1,1-Dichloroethane	U	ND	0.286	0.860	ug/kg	0.773	1					
1,1-Dichloroethylene	U	ND	0.286	0.860	ug/kg	0.773	1					
1,2,3-Trichloropropane	U	ND	0.286	0.860	ug/kg	0.773	1					
1,2,4-Trichlorobenzene	U	ND	0.286	0.860	ug/kg	0.773	1					
1,2-Dibromo-3-chloropropane	U	ND	0.430	0.860	ug/kg	0.773	1					
1,2-Dibromoethane	U	ND	0.286	0.860	ug/kg	0.773	1					
1,2-Dichloroethane	U	ND	0.286	0.860	ug/kg	0.773	1					
1,2-Dichloropropane	U	ND	0.286	0.860	ug/kg	0.773	1					
2-Butanone	U	ND	1.43	4.30	ug/kg	0.773	1					
2-Chloro-1,3-butadiene	U	ND	0.286	0.860	ug/kg	0.773	1					
2-Hexanone	U	ND	1.43	4.30	ug/kg	0.773	1					
4-Methyl-2-pentanone	U	ND	1.43	4.30	ug/kg	0.773	1					
Acetone	J	3.00	1.43	4.30	ug/kg	0.773	1					
Acetonitrile	U	ND	7.16	21.5	ug/kg	0.773	1					
Acrolein	U	ND	1.43	4.30	ug/kg	0.773	1					
Acrylonitrile	U	ND	1.43	4.30	ug/kg	0.773	1					
Allyl chloride	U	ND	1.43	4.30	ug/kg	0.773	1					
Benzene	U	ND	0.286	0.860	ug/kg	0.773	1					
Bromodichloromethane	U	ND	0.286	0.860	ug/kg	0.773	1					
Bromoform	U	ND	0.286	0.860	ug/kg	0.773	1					
Bromomethane	U	ND	0.286	0.860	ug/kg	0.773	1					
Carbon disulfide	U	ND	1.43	4.30	ug/kg	0.773	1					
Carbon tetrachloride	U	ND	0.286	0.860	ug/kg	0.773	1					
Chlorobenzene	U	ND	0.286	0.860	ug/kg	0.773	1					
Chloroethane	U	ND	0.286	0.860	ug/kg	0.773	1					
Chloroform	U	ND	0.286	0.860	ug/kg	0.773	1					
Chloromethane	U	ND	0.286	0.860	ug/kg	0.773	1					
Dibromochloromethane	U	ND	0.286	0.860	ug/kg	0.773	1					
Dibromomethane	U	ND	0.286	0.860	ug/kg	0.773	1					

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Certificate of Analysis

Report Date: October 7, 2020

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

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

Client Sample ID: C-34-3 Project: WNUC00901
Sample ID: 522864003 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
Dichlorodifluoromethane	U	ND	0.286	0.860	ug/kg	0.773	1					
Ethyl methacrylate	U	ND	1.43	4.30	ug/kg	0.773	1					
Ethylbenzene	U	ND	0.286	0.860	ug/kg	0.773	1					
Iodomethane	U	ND	1.43	4.30	ug/kg	0.773	1					
Isobutyl alcohol	U	ND	14.3	43.0	ug/kg	0.773	1					
Methacrylonitrile	U	ND	1.43	4.30	ug/kg	0.773	1					
Methyl methacrylate	U	ND	1.43	4.30	ug/kg	0.773	1					
Methylene chloride	U	ND	1.43	4.30	ug/kg	0.773	1					
Pentachloroethane	U	ND	1.43	4.30	ug/kg	0.773	1					
Propionitrile	U	ND	1.43	4.30	ug/kg	0.773	1					
Styrene	U	ND	0.286	0.860	ug/kg	0.773	1					
Tetrachloroethylene	U	ND	0.286	0.860	ug/kg	0.773	1					
Toluene	U	ND	0.286	0.860	ug/kg	0.773	1					
Trichloroethylene	U	ND	0.286	0.860	ug/kg	0.773	1					
Trichlorofluoromethane	U	ND	0.286	0.860	ug/kg	0.773	1					
Vinyl acetate	U	ND	1.43	4.30	ug/kg	0.773	1					
Vinyl chloride	U	ND	0.286	0.860	ug/kg	0.773	1					
Xylenes (total)	U	ND	0.860	2.58	ug/kg	0.773	1					
bis(2-Chloro-1-methylethyl)ether	U	ND	1.43	4.30	ug/kg	0.773	1					
cis-1,3-Dichloropropylene	U	ND	0.286	0.860	ug/kg	0.773	1					
trans-1,2-Dichloroethylene	U	ND	0.286	0.860	ug/kg	0.773	1					
trans-1,3-Dichloropropylene	U	ND	0.286	0.860	ug/kg	0.773	1					
trans-1,4-Dichloro-2-butene	U	ND	1.43	4.30	ug/kg	0.773	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/26/20	0820	2047332
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/01/20	2107	2046854

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 VOC "Dry Weight Corrected"	41.9 ug/kg	50.0	98	(81%-124%)
Bromofluorobenzene	SW846 8260D VOC "Dry Weight Corrected"	40.2 ug/kg	50.0	94	(70%-130%)

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

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

Client Sample ID: C-34-3 Project: WNUC00901
Sample ID: 522864003 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
Toluene-d8		SW846 8260D VOC "Dry Weight Corrected"		43.9	ug/kg	50.0		102	(81%-120%)		

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: October 7, 2020

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

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

Client Sample ID: C-34-4
Sample ID: 522864004
Matrix: Soil
Collect Date: 26-SEP-20 08:27
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.5%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.390	1.15	mg/kg	10.3	1	LXA2	10/02/20	1120	2046865	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/01/20	2107	2046854

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: October 7, 2020

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

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

Client Sample ID: C-34-5
Sample ID: 522864005
Matrix: Soil
Collect Date: 26-SEP-20 08:33
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.2%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.384	1.13	mg/kg	10.0	1	LXA2	10/02/20	1147	2046865	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/01/20	2107	2046854

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: October 7, 2020

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

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

Client Sample ID: C-38-1
Sample ID: 522864006
Matrix: Soil
Collect Date: 26-SEP-20 07:16
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.6%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.380	1.12	mg/kg	9.88	1	LXA2	10/02/20	1217	2046865	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/01/20	2107	2046854

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Company : Westinghouse Electric Company, LLC
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Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-38-2
Sample ID: 522864007
Matrix: Soil
Collect Date: 26-SEP-20 07:23
Receive Date: 30-SEP-20
Collector: Client
Moisture: 12.2%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.510	0.388	1.14	mg/kg	10.0	1	LXA2	10/02/20	1247	2046865	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/01/20	2107	2046854

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: October 7, 2020

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

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

Client Sample ID: C-38-3
Sample ID: 522864008
Matrix: Soil
Collect Date: 26-SEP-20 07:29
Receive Date: 30-SEP-20
Collector: Client
Moisture: 12.7%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.505	0.380	1.12	mg/kg	9.76	1	LXA2	10/03/20	0259	2046867	1
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
1,1,1,2-Tetrachloroethane	U	ND	0.307	0.923	ug/kg	0.805	1	JP1	10/02/20	2340	2047333	2
1,1,1-Trichloroethane	U	ND	0.307	0.923	ug/kg	0.805	1					
1,1,2,2-Tetrachloroethane	U	ND	0.307	0.923	ug/kg	0.805	1					
1,1,2-Trichloroethane	U	ND	0.307	0.923	ug/kg	0.805	1					
1,1-Dichloroethane	U	ND	0.307	0.923	ug/kg	0.805	1					
1,1-Dichloroethylene	U	ND	0.307	0.923	ug/kg	0.805	1					
1,2,3-Trichloropropane	U	ND	0.307	0.923	ug/kg	0.805	1					
1,2,4-Trichlorobenzene	U	ND	0.307	0.923	ug/kg	0.805	1					
1,2-Dibromo-3-chloropropane	U	ND	0.461	0.923	ug/kg	0.805	1					
1,2-Dibromoethane	U	ND	0.307	0.923	ug/kg	0.805	1					
1,2-Dichloroethane	U	ND	0.307	0.923	ug/kg	0.805	1					
1,2-Dichloropropane	U	ND	0.307	0.923	ug/kg	0.805	1					
2-Butanone	U	ND	1.54	4.61	ug/kg	0.805	1					
2-Chloro-1,3-butadiene	U	ND	0.307	0.923	ug/kg	0.805	1					
2-Hexanone	U	ND	1.54	4.61	ug/kg	0.805	1					
4-Methyl-2-pentanone	U	ND	1.54	4.61	ug/kg	0.805	1					
Acetone	J	2.48	1.54	4.61	ug/kg	0.805	1					
Acetonitrile	U	ND	7.69	23.1	ug/kg	0.805	1					
Acrolein	U	ND	1.54	4.61	ug/kg	0.805	1					
Acrylonitrile	U	ND	1.54	4.61	ug/kg	0.805	1					
Allyl chloride	U	ND	1.54	4.61	ug/kg	0.805	1					
Benzene	U	ND	0.307	0.923	ug/kg	0.805	1					
Bromodichloromethane	U	ND	0.307	0.923	ug/kg	0.805	1					
Bromoform	U	ND	0.307	0.923	ug/kg	0.805	1					
Bromomethane	U	ND	0.307	0.923	ug/kg	0.805	1					
Carbon disulfide	U	ND	1.54	4.61	ug/kg	0.805	1					
Carbon tetrachloride	U	ND	0.307	0.923	ug/kg	0.805	1					
Chlorobenzene	U	ND	0.307	0.923	ug/kg	0.805	1					
Chloroethane	U	ND	0.307	0.923	ug/kg	0.805	1					
Chloroform	U	ND	0.307	0.923	ug/kg	0.805	1					
Chloromethane	U	ND	0.307	0.923	ug/kg	0.805	1					
Dibromochloromethane	U	ND	0.307	0.923	ug/kg	0.805	1					
Dibromomethane	U	ND	0.307	0.923	ug/kg	0.805	1					

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Report Date: October 7, 2020

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

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

Client Sample ID: C-38-3 Project: WNUC00901
Sample ID: 522864008 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
Dichlorodifluoromethane	U	ND	0.307	0.923	ug/kg	0.805	1					
Ethyl methacrylate	U	ND	1.54	4.61	ug/kg	0.805	1					
Ethylbenzene	U	ND	0.307	0.923	ug/kg	0.805	1					
Iodomethane	U	ND	1.54	4.61	ug/kg	0.805	1					
Isobutyl alcohol	U	ND	15.4	46.1	ug/kg	0.805	1					
Methacrylonitrile	U	ND	1.54	4.61	ug/kg	0.805	1					
Methyl methacrylate	U	ND	1.54	4.61	ug/kg	0.805	1					
Methylene chloride	U	ND	1.54	4.61	ug/kg	0.805	1					
Pentachloroethane	U	ND	1.54	4.61	ug/kg	0.805	1					
Propionitrile	U	ND	1.54	4.61	ug/kg	0.805	1					
Styrene	U	ND	0.307	0.923	ug/kg	0.805	1					
Tetrachloroethylene	U	ND	0.307	0.923	ug/kg	0.805	1					
Toluene	U	ND	0.307	0.923	ug/kg	0.805	1					
Trichloroethylene	U	ND	0.307	0.923	ug/kg	0.805	1					
Trichlorofluoromethane	U	ND	0.307	0.923	ug/kg	0.805	1					
Vinyl acetate	U	ND	1.54	4.61	ug/kg	0.805	1					
Vinyl chloride	U	ND	0.307	0.923	ug/kg	0.805	1					
Xylenes (total)	U	ND	0.923	2.77	ug/kg	0.805	1					
bis(2-Chloro-1-methylethyl)ether	U	ND	1.54	4.61	ug/kg	0.805	1					
cis-1,3-Dichloropropylene	U	ND	0.307	0.923	ug/kg	0.805	1					
trans-1,2-Dichloroethylene	U	ND	0.307	0.923	ug/kg	0.805	1					
trans-1,3-Dichloropropylene	U	ND	0.307	0.923	ug/kg	0.805	1					
trans-1,4-Dichloro-2-butene	U	ND	1.54	4.61	ug/kg	0.805	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/26/20	0729	2047332
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	2236	2046866

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 VOC "Dry Weight Corrected"	44.6 ug/kg	50.0	97	(81%-124%)
Bromofluorobenzene	SW846 8260D VOC "Dry Weight Corrected"	43.7 ug/kg	50.0	95	(70%-130%)

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

Client Sample ID: C-38-3 Project: WNUC00901
Sample ID: 522864008 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
Toluene-d8		SW846 8260D VOC "Dry Weight Corrected"		47.4	ug/kg	50.0		103	(81%-120%)		

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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Report Date: October 7, 2020

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

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

Client Sample ID: C-38-4
Sample ID: 522864009
Matrix: Soil
Collect Date: 26-SEP-20 07:37
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.2%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	U	ND	0.387	1.14	mg/kg	10.1	1	LXA2	10/03/20	0423	2046867	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	2236	2046866

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: October 7, 2020

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

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

Client Sample ID: C-38-5
Sample ID: 522864010
Matrix: Soil
Collect Date: 26-SEP-20 07:43
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.3%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.439	0.369	1.09	mg/kg	9.64	1	LXA2	10/03/20	0547	2046867	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	2236	2046866

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: October 7, 2020

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

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

Client Sample ID: S-38-1
Sample ID: 522864011
Matrix: Soil
Collect Date: 26-SEP-20 10:43
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.4%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		6.56	0.372	1.09	mg/kg	9.80	1	LXA2	10/03/20	0615	2046867	1
Metals Analysis-ICP-MS												
SW846 3050B/6020B Isotopic Uranium-234/235/238 "Dry Weight Corrected"												
Uranium-234	U	ND	2.05	10.2	ug/kg	91.7	2	PRB	10/07/20	0241	2046325	2
Uranium-235		17.4	2.05	14.3	ug/kg	91.7	2	PRB	10/07/20	0907	2046325	3
Uranium-238		1490	13.5	40.9	ug/kg	91.7	2					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	SM1	10/01/20	0915	2046324
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	2236	2046866

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
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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Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	S-38-2	Project:	WNUC00901
Sample ID:	522864012	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	26-SEP-20 10:51		
Receive Date:	30-SEP-20		
Collector:	Client		
Moisture:	11.3%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.877	0.374	1.10	mg/kg	9.76	1	LXA2	10/03/20	0739	2046867	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	2236	2046866

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 Teague
Project: ENV-CONSENTA-4500778461

Client Sample ID: S-38-3
Sample ID: 522864013
Matrix: Soil
Collect Date: 26-SEP-20 10:57
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.6%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		5.45	0.380	1.12	mg/kg	10.0	1	LXA2	10/03/20	0807	2046867	1
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
1,1,1,2-Tetrachloroethane	U	ND	0.330	0.991	ug/kg	0.887	1	JP1	10/03/20	0006	2047333	2
1,1,1-Trichloroethane	U	ND	0.330	0.991	ug/kg	0.887	1					
1,1,2,2-Tetrachloroethane	U	ND	0.330	0.991	ug/kg	0.887	1					
1,1,2-Trichloroethane	U	ND	0.330	0.991	ug/kg	0.887	1					
1,1-Dichloroethane	U	ND	0.330	0.991	ug/kg	0.887	1					
1,1-Dichloroethylene	U	ND	0.330	0.991	ug/kg	0.887	1					
1,2,3-Trichloropropane	U	ND	0.330	0.991	ug/kg	0.887	1					
1,2,4-Trichlorobenzene	U	ND	0.330	0.991	ug/kg	0.887	1					
1,2-Dibromo-3-chloropropane	U	ND	0.496	0.991	ug/kg	0.887	1					
1,2-Dibromoethane	U	ND	0.330	0.991	ug/kg	0.887	1					
1,2-Dichloroethane	U	ND	0.330	0.991	ug/kg	0.887	1					
1,2-Dichloropropane	U	ND	0.330	0.991	ug/kg	0.887	1					
2-Butanone	U	ND	1.65	4.96	ug/kg	0.887	1					
2-Chloro-1,3-butadiene	U	ND	0.330	0.991	ug/kg	0.887	1					
2-Hexanone	U	ND	1.65	4.96	ug/kg	0.887	1					
4-Methyl-2-pentanone	U	ND	1.65	4.96	ug/kg	0.887	1					
Acetone		82.4	1.65	4.96	ug/kg	0.887	1					
Acetonitrile	U	ND	8.26	24.8	ug/kg	0.887	1					
Acrolein	U	ND	1.65	4.96	ug/kg	0.887	1					
Acrylonitrile	U	ND	1.65	4.96	ug/kg	0.887	1					
Allyl chloride	U	ND	1.65	4.96	ug/kg	0.887	1					
Benzene	U	ND	0.330	0.991	ug/kg	0.887	1					
Bromodichloromethane	U	ND	0.330	0.991	ug/kg	0.887	1					
Bromoform	U	ND	0.330	0.991	ug/kg	0.887	1					
Bromomethane	U	ND	0.330	0.991	ug/kg	0.887	1					
Carbon disulfide	U	ND	1.65	4.96	ug/kg	0.887	1					
Carbon tetrachloride	U	ND	0.330	0.991	ug/kg	0.887	1					
Chlorobenzene	U	ND	0.330	0.991	ug/kg	0.887	1					
Chloroethane	U	ND	0.330	0.991	ug/kg	0.887	1					
Chloroform	U	ND	0.330	0.991	ug/kg	0.887	1					
Chloromethane	U	ND	0.330	0.991	ug/kg	0.887	1					
Dibromochloromethane	U	ND	0.330	0.991	ug/kg	0.887	1					
Dibromomethane	U	ND	0.330	0.991	ug/kg	0.887	1					

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Report Date: October 7, 2020

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

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

Client Sample ID: S-38-3 Project: WNUC00901
Sample ID: 522864013 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
Dichlorodifluoromethane	U	ND	0.330	0.991	ug/kg	0.887	1					
Ethyl methacrylate	U	ND	1.65	4.96	ug/kg	0.887	1					
Ethylbenzene	U	ND	0.330	0.991	ug/kg	0.887	1					
Iodomethane	U	ND	1.65	4.96	ug/kg	0.887	1					
Isobutyl alcohol	U	ND	16.5	49.6	ug/kg	0.887	1					
Methacrylonitrile	U	ND	1.65	4.96	ug/kg	0.887	1					
Methyl methacrylate	U	ND	1.65	4.96	ug/kg	0.887	1					
Methylene chloride	U	ND	1.65	4.96	ug/kg	0.887	1					
Pentachloroethane	U	ND	1.65	4.96	ug/kg	0.887	1					
Propionitrile	U	ND	1.65	4.96	ug/kg	0.887	1					
Styrene	U	ND	0.330	0.991	ug/kg	0.887	1					
Tetrachloroethylene	U	ND	0.330	0.991	ug/kg	0.887	1					
Toluene	U	ND	0.330	0.991	ug/kg	0.887	1					
Trichloroethylene	U	ND	0.330	0.991	ug/kg	0.887	1					
Trichlorofluoromethane	U	ND	0.330	0.991	ug/kg	0.887	1					
Vinyl acetate	U	ND	1.65	4.96	ug/kg	0.887	1					
Vinyl chloride	U	ND	0.330	0.991	ug/kg	0.887	1					
Xylenes (total)	U	ND	0.991	2.97	ug/kg	0.887	1					
bis(2-Chloro-1-methylethyl)ether	U	ND	1.65	4.96	ug/kg	0.887	1					
cis-1,3-Dichloropropylene	U	ND	0.330	0.991	ug/kg	0.887	1					
trans-1,2-Dichloroethylene	U	ND	0.330	0.991	ug/kg	0.887	1					
trans-1,3-Dichloropropylene	U	ND	0.330	0.991	ug/kg	0.887	1					
trans-1,4-Dichloro-2-butene	U	ND	1.65	4.96	ug/kg	0.887	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/26/20	1057	2047332
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	2236	2046866

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 VOC "Dry Weight Corrected"	48.1 ug/kg	50.0	97	(81%-124%)
Bromofluorobenzene	SW846 8260D VOC "Dry Weight Corrected"	46.7 ug/kg	50.0	94	(70%-130%)

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Report Date: October 7, 2020

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

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

Client Sample ID: S-38-3 Project: WNUC00901
Sample ID: 522864013 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
Toluene-d8		SW846 8260D VOC "Dry Weight Corrected"		50.4	ug/kg	50.0		102	(81%-120%)		

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: October 7, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	S-38-4	Project:	WNUC00901
Sample ID:	522864014	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	26-SEP-20 11:07		
Receive Date:	30-SEP-20		
Collector:	Client		
Moisture:	8.78%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		8.09	0.363	1.07	mg/kg	9.73	1	LXA2	10/03/20	0836	2046867	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	2236	2046866

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: October 7, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	S-38-5	Project:	WNUC00901
Sample ID:	522864015	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	26-SEP-20 11:18		
Receive Date:	30-SEP-20		
Collector:	Client		
Moisture:	8.89%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		7.47	0.375	1.10	mg/kg	10.1	1	LXA2	10/03/20	0904	2046867	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	2236	2046866

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: October 7, 2020

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

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

Client Sample ID: C-47-5
Sample ID: 522864016
Matrix: Soil
Collect Date: 26-SEP-20 09:12
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.2%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.65	0.378	1.11	mg/kg	9.98	1	LXA2	10/03/20	0932	2046867	1
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
1,1,1,2-Tetrachloroethane	U	ND	0.265	0.795	ug/kg	0.714	1	JP1	10/03/20	0032	2047333	2
1,1,1-Trichloroethane	U	ND	0.265	0.795	ug/kg	0.714	1					
1,1,2,2-Tetrachloroethane	U	ND	0.265	0.795	ug/kg	0.714	1					
1,1,2-Trichloroethane	U	ND	0.265	0.795	ug/kg	0.714	1					
1,1-Dichloroethane	U	ND	0.265	0.795	ug/kg	0.714	1					
1,1-Dichloroethylene	U	ND	0.265	0.795	ug/kg	0.714	1					
1,2,3-Trichloropropane	U	ND	0.265	0.795	ug/kg	0.714	1					
1,2,4-Trichlorobenzene	U	ND	0.265	0.795	ug/kg	0.714	1					
1,2-Dibromo-3-chloropropane	U	ND	0.398	0.795	ug/kg	0.714	1					
1,2-Dibromoethane	U	ND	0.265	0.795	ug/kg	0.714	1					
1,2-Dichloroethane	U	ND	0.265	0.795	ug/kg	0.714	1					
1,2-Dichloropropane	U	ND	0.265	0.795	ug/kg	0.714	1					
2-Butanone	U	ND	1.33	3.98	ug/kg	0.714	1					
2-Chloro-1,3-butadiene	U	ND	0.265	0.795	ug/kg	0.714	1					
2-Hexanone	U	ND	1.33	3.98	ug/kg	0.714	1					
4-Methyl-2-pentanone	U	ND	1.33	3.98	ug/kg	0.714	1					
Acetone	J	2.09	1.33	3.98	ug/kg	0.714	1					
Acetonitrile	U	ND	6.63	19.9	ug/kg	0.714	1					
Acrolein	U	ND	1.33	3.98	ug/kg	0.714	1					
Acrylonitrile	U	ND	1.33	3.98	ug/kg	0.714	1					
Allyl chloride	U	ND	1.33	3.98	ug/kg	0.714	1					
Benzene	U	ND	0.265	0.795	ug/kg	0.714	1					
Bromodichloromethane	U	ND	0.265	0.795	ug/kg	0.714	1					
Bromoform	U	ND	0.265	0.795	ug/kg	0.714	1					
Bromomethane	U	ND	0.265	0.795	ug/kg	0.714	1					
Carbon disulfide	U	ND	1.33	3.98	ug/kg	0.714	1					
Carbon tetrachloride	U	ND	0.265	0.795	ug/kg	0.714	1					
Chlorobenzene	U	ND	0.265	0.795	ug/kg	0.714	1					
Chloroethane	U	ND	0.265	0.795	ug/kg	0.714	1					
Chloroform	U	ND	0.265	0.795	ug/kg	0.714	1					
Chloromethane	U	ND	0.265	0.795	ug/kg	0.714	1					
Dibromochloromethane	U	ND	0.265	0.795	ug/kg	0.714	1					
Dibromomethane	U	ND	0.265	0.795	ug/kg	0.714	1					

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

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

Client Sample ID: C-47-5 Project: WNUC00901
Sample ID: 522864016 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
Dichlorodifluoromethane	U	ND	0.265	0.795	ug/kg	0.714	1					
Ethyl methacrylate	U	ND	1.33	3.98	ug/kg	0.714	1					
Ethylbenzene	U	ND	0.265	0.795	ug/kg	0.714	1					
Iodomethane	U	ND	1.33	3.98	ug/kg	0.714	1					
Isobutyl alcohol	U	ND	13.3	39.8	ug/kg	0.714	1					
Methacrylonitrile	U	ND	1.33	3.98	ug/kg	0.714	1					
Methyl methacrylate	U	ND	1.33	3.98	ug/kg	0.714	1					
Methylene chloride	U	ND	1.33	3.98	ug/kg	0.714	1					
Pentachloroethane	U	ND	1.33	3.98	ug/kg	0.714	1					
Propionitrile	U	ND	1.33	3.98	ug/kg	0.714	1					
Styrene	U	ND	0.265	0.795	ug/kg	0.714	1					
Tetrachloroethylene	U	ND	0.265	0.795	ug/kg	0.714	1					
Toluene	U	ND	0.265	0.795	ug/kg	0.714	1					
Trichloroethylene	U	ND	0.265	0.795	ug/kg	0.714	1					
Trichlorofluoromethane	U	ND	0.265	0.795	ug/kg	0.714	1					
Vinyl acetate	U	ND	1.33	3.98	ug/kg	0.714	1					
Vinyl chloride	U	ND	0.265	0.795	ug/kg	0.714	1					
Xylenes (total)	U	ND	0.795	2.39	ug/kg	0.714	1					
bis(2-Chloro-1-methylethyl)ether	U	ND	1.33	3.98	ug/kg	0.714	1					
cis-1,3-Dichloropropylene	U	ND	0.265	0.795	ug/kg	0.714	1					
trans-1,2-Dichloroethylene	U	ND	0.265	0.795	ug/kg	0.714	1					
trans-1,3-Dichloropropylene	U	ND	0.265	0.795	ug/kg	0.714	1					
trans-1,4-Dichloro-2-butene	U	ND	1.33	3.98	ug/kg	0.714	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/26/20	0912	2047332
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	2236	2046866

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 VOC "Dry Weight Corrected"	38.9 ug/kg	50.0	98	(81%-124%)
Bromofluorobenzene	SW846 8260D VOC "Dry Weight Corrected"	37.2 ug/kg	50.0	94	(70%-130%)

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Address : PO Drawer R

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

Client Sample ID: C-47-5 Project: WNUC00901
Sample ID: 522864016 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
Toluene-d8		SW846 8260D VOC "Dry Weight Corrected"		40.5	ug/kg	50.0		102	(81%-120%)		

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

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

Client Sample ID: C-47-6
Sample ID: 522864017
Matrix: Soil
Collect Date: 26-SEP-20 09:20
Receive Date: 30-SEP-20
Collector: Client
Moisture: 8.03%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.733	0.378	1.11	mg/kg	10.2	1	LXA2	10/03/20	1000	2046867	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	2236	2046866

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: October 7, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-47-7	Project:	WNUC00901
Sample ID:	522864018	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	26-SEP-20 09:26		
Receive Date:	30-SEP-20		
Collector:	Client		
Moisture:	9.22%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride	J	0.766	0.382	1.12	mg/kg	10.2	1	LXA2	10/03/20	1028	2046867	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	2236	2046866

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: October 7, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-47-8	Project:	WNUC00901
Sample ID:	522864019	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	26-SEP-20 09:31		
Receive Date:	30-SEP-20		
Collector:	Client		
Moisture:	11.3%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		1.16	0.381	1.12	mg/kg	9.95	1	LXA2	10/03/20	1056	2046867	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	2236	2046866

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 Teague
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-8-1
Sample ID: 522864020
Matrix: Soil
Collect Date: 30-SEP-20 06:40
Receive Date: 30-SEP-20
Collector: Client
Moisture: 12.2%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		6.65	0.380	1.12	mg/kg	9.80	1	LXA2	10/03/20	1124	2046867	1
Metals Analysis-ICP-MS												
SW846 3050B/6020B Isotopic Uranium-234/235/238 "Dry Weight Corrected"												
Uranium-234	U	ND	2.05	10.3	ug/kg	90.1	2	PRB	10/07/20	0243	2046325	2
Uranium-235		26.1	2.05	14.4	ug/kg	90.1	2	PRB	10/07/20	0909	2046325	3
Uranium-238		3300	13.5	41.0	ug/kg	90.1	2					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	SM1	10/01/20	0915	2046324
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	2236	2046866

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
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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Report Date: October 7, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-8-2	Project:	WNUC00901
Sample ID:	522864021	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	30-SEP-20 06:50		
Receive Date:	30-SEP-20		
Collector:	Client		
Moisture:	13.2%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		17.3	0.391	1.15	mg/kg	9.98	1	LXA2	10/03/20	1152	2046867	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	2236	2046866

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: October 7, 2020

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

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

Client Sample ID: C-8-3
Sample ID: 522864022
Matrix: Soil
Collect Date: 30-SEP-20 06:57
Receive Date: 30-SEP-20
Collector: Client
Moisture: 18.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		6.13	0.397	1.17	mg/kg	9.55	1	LXA2	10/03/20	1715	2046867	1
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
1,1,1,2-Tetrachloroethane	U	ND	0.321	0.963	ug/kg	0.789	1	JP1	10/05/20	2147	2048011	2
1,1,1-Trichloroethane	U	ND	0.321	0.963	ug/kg	0.789	1					
1,1,2,2-Tetrachloroethane	U	ND	0.321	0.963	ug/kg	0.789	1					
1,1,2-Trichloroethane	U	ND	0.321	0.963	ug/kg	0.789	1					
1,1-Dichloroethane	U	ND	0.321	0.963	ug/kg	0.789	1					
1,1-Dichloroethylene	U	ND	0.321	0.963	ug/kg	0.789	1					
1,2,3-Trichloropropane	U	ND	0.321	0.963	ug/kg	0.789	1					
1,2,4-Trichlorobenzene	U	ND	0.321	0.963	ug/kg	0.789	1					
1,2-Dibromo-3-chloropropane	U	ND	0.482	0.963	ug/kg	0.789	1					
1,2-Dibromoethane	U	ND	0.321	0.963	ug/kg	0.789	1					
1,2-Dichloroethane	U	ND	0.321	0.963	ug/kg	0.789	1					
1,2-Dichloropropane	U	ND	0.321	0.963	ug/kg	0.789	1					
2-Butanone	U	ND	1.61	4.82	ug/kg	0.789	1					
2-Chloro-1,3-butadiene	U	ND	0.321	0.963	ug/kg	0.789	1					
2-Hexanone	U	ND	1.61	4.82	ug/kg	0.789	1					
4-Methyl-2-pentanone	U	ND	1.61	4.82	ug/kg	0.789	1					
Acetone	U	ND	1.61	4.82	ug/kg	0.789	1					
Acetonitrile	U	ND	8.03	24.1	ug/kg	0.789	1					
Acrolein	U	ND	1.61	4.82	ug/kg	0.789	1					
Acrylonitrile	U	ND	1.61	4.82	ug/kg	0.789	1					
Allyl chloride	U	ND	1.61	4.82	ug/kg	0.789	1					
Benzene	U	ND	0.321	0.963	ug/kg	0.789	1					
Bromodichloromethane	U	ND	0.321	0.963	ug/kg	0.789	1					
Bromoform	U	ND	0.321	0.963	ug/kg	0.789	1					
Bromomethane	U	ND	0.321	0.963	ug/kg	0.789	1					
Carbon disulfide	U	ND	1.61	4.82	ug/kg	0.789	1					
Carbon tetrachloride	U	ND	0.321	0.963	ug/kg	0.789	1					
Chlorobenzene	U	ND	0.321	0.963	ug/kg	0.789	1					
Chloroethane	U	ND	0.321	0.963	ug/kg	0.789	1					
Chloroform	U	ND	0.321	0.963	ug/kg	0.789	1					
Chloromethane	U	ND	0.321	0.963	ug/kg	0.789	1					
Dibromochloromethane	U	ND	0.321	0.963	ug/kg	0.789	1					
Dibromomethane	U	ND	0.321	0.963	ug/kg	0.789	1					

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Certificate of Analysis

Report Date: October 7, 2020

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

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

Client Sample ID: C-8-3 Project: WNUC00901
Sample ID: 522864022 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D VOC "Dry Weight Corrected"												
Dichlorodifluoromethane	U	ND	0.321	0.963	ug/kg	0.789	1					
Ethyl methacrylate	U	ND	1.61	4.82	ug/kg	0.789	1					
Ethylbenzene	U	ND	0.321	0.963	ug/kg	0.789	1					
Iodomethane	U	ND	1.61	4.82	ug/kg	0.789	1					
Isobutyl alcohol	U	ND	16.1	48.2	ug/kg	0.789	1					
Methacrylonitrile	U	ND	1.61	4.82	ug/kg	0.789	1					
Methyl methacrylate	U	ND	1.61	4.82	ug/kg	0.789	1					
Methylene chloride	U	ND	1.61	4.82	ug/kg	0.789	1					
Pentachloroethane	U	ND	1.61	4.82	ug/kg	0.789	1					
Propionitrile	U	ND	1.61	4.82	ug/kg	0.789	1					
Styrene	U	ND	0.321	0.963	ug/kg	0.789	1					
Tetrachloroethylene	U	ND	0.321	0.963	ug/kg	0.789	1					
Toluene	U	ND	0.321	0.963	ug/kg	0.789	1					
Trichloroethylene	U	ND	0.321	0.963	ug/kg	0.789	1					
Trichlorofluoromethane	U	ND	0.321	0.963	ug/kg	0.789	1					
Vinyl acetate	U	ND	1.61	4.82	ug/kg	0.789	1					
Vinyl chloride	U	ND	0.321	0.963	ug/kg	0.789	1					
Xylenes (total)	U	ND	0.963	2.89	ug/kg	0.789	1					
bis(2-Chloro-1-methylethyl)ether	U	ND	1.61	4.82	ug/kg	0.789	1					
cis-1,3-Dichloropropylene	U	ND	0.321	0.963	ug/kg	0.789	1					
trans-1,2-Dichloroethylene	U	ND	0.321	0.963	ug/kg	0.789	1					
trans-1,3-Dichloropropylene	U	ND	0.321	0.963	ug/kg	0.789	1					
trans-1,4-Dichloro-2-butene	U	ND	1.61	4.82	ug/kg	0.789	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	09/30/20	0657	2048010
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	2236	2046866

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 VOC "Dry Weight Corrected"	45.7 ug/kg	50.0	95	(81%-124%)
Bromofluorobenzene	SW846 8260D VOC "Dry Weight Corrected"	45.8 ug/kg	50.0	95	(70%-130%)

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

Client Sample ID: C-8-3 Project: WNUC00901
Sample ID: 522864022 Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
Toluene-d8		SW846 8260D VOC "Dry Weight Corrected"		49.1	ug/kg	50.0		102	(81%-120%)		

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: October 7, 2020

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

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

Client Sample ID: C-8-4
Sample ID: 522864023
Matrix: Soil
Collect Date: 30-SEP-20 07:11
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.62%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		11.8	0.373	1.10	mg/kg	9.93	1	LXA2	10/03/20	1743	2046867	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	2236	2046866

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: October 7, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	ENV-CONSENTA-4500778461

Client Sample ID:	C-8-5	Project:	WNUC00901
Sample ID:	522864024	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	30-SEP-20 07:25		
Receive Date:	30-SEP-20		
Collector:	Client		
Moisture:	13%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		14.9	0.390	1.15	mg/kg	9.98	1	LXA2	10/03/20	1811	2046867	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	LXA2	10/02/20	2236	2046866

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 Teague
Project: ENV-CONSENTA-4500778461

Client Sample ID: C-34-1
Sample ID: 522864001
Matrix: Soil
Collect Date: 26-SEP-20 08:10
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.68	+/-0.548	0.363	0.500	pCi/g			MP2	10/05/20	1608	2046419	1
Uranium-235/236	U	0.145	+/-0.208	0.251	0.500	pCi/g							
Uranium-238		0.716	+/-0.388	0.402	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.0190	+/-0.503	0.887	1.00	pCi/g			JJ3	10/06/20	2130	2046354	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1010	2046330

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/Solid "Dry Weight Corrected"			81.2	(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
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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Report Date: October 7, 2020

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

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

Client Sample ID: C-34-2
Sample ID: 522864002
Matrix: Soil
Collect Date: 26-SEP-20 08:15
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.9%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.32	+/-0.426	0.277	0.500	pCi/g			MP2	10/05/20	1608	2046419	1
Uranium-235/236	U	0.0322	+/-0.144	0.282	0.500	pCi/g							
Uranium-238		0.768	+/-0.328	0.241	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.347	+/-0.467	0.858	1.00	pCi/g			JJ3	10/06/20	2202	2046354	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1010	2046330

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/Solid "Dry Weight Corrected"			94.4	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			91.8	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-34-3
Sample ID: 522864003
Matrix: Soil
Collect Date: 26-SEP-20 08:20
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.33	+/-0.404	0.285	0.500	pCi/g			MP2	10/05/20	1608	2046419	1
Uranium-235/236	U	0.0709	+/-0.121	0.106	0.500	pCi/g							
Uranium-238		0.928	+/-0.340	0.257	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.241	+/-0.494	0.849	1.00	pCi/g			JJ3	10/06/20	2235	2046354	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1010	2046330

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/Solid "Dry Weight Corrected"			104	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.2	(15%-125%)

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

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: October 7, 2020

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

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

Client Sample ID: C-34-4
Sample ID: 522864004
Matrix: Soil
Collect Date: 26-SEP-20 08:27
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.5%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		0.947	+/-0.372	0.315	0.500	pCi/g			MP2	10/05/20	1608	2046419	1
Uranium-235/236	U	-0.00956	+/-0.0824	0.191	0.500	pCi/g							
Uranium-238		0.727	+/-0.318	0.238	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.385	+/-0.457	0.845	1.00	pCi/g			JJ3	10/06/20	2307	2046354	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1010	2046330

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/Solid "Dry Weight Corrected"			90.7	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.5	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-34-5
Sample ID: 522864005
Matrix: Soil
Collect Date: 26-SEP-20 08:33
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.2%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.16	+/-0.381	0.304	0.500	pCi/g			MP2	10/05/20	1608	2046419	1
Uranium-235/236	U	0.0973	+/-0.157	0.244	0.500	pCi/g							
Uranium-238		1.08	+/-0.355	0.208	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.182	+/-0.471	0.814	1.00	pCi/g			JJ3	10/06/20	2340	2046354	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1010	2046330

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/Solid "Dry Weight Corrected"			94.7	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			91.6	(15%-125%)

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

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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Address : PO Drawer R

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

Client Sample ID: C-38-1
Sample ID: 522864006
Matrix: Soil
Collect Date: 26-SEP-20 07:16
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.6%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		0.965	+/-0.344	0.224	0.500	pCi/g			MP2	10/05/20	1608	2046419	1
Uranium-235/236	U	0.0288	+/-0.129	0.252	0.500	pCi/g							
Uranium-238		0.904	+/-0.329	0.192	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.00588	+/-0.500	0.883	1.00	pCi/g			JJ3	10/07/20	0012	2046354	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1010	2046330

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/Solid "Dry Weight Corrected"			92.7	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			91.3	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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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Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

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

Client Sample ID: C-38-2
Sample ID: 522864007
Matrix: Soil
Collect Date: 26-SEP-20 07:23
Receive Date: 30-SEP-20
Collector: Client
Moisture: 12.2%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.68	+/-0.511	0.338	0.500	pCi/g			MP2	10/05/20	1608	2046419	1
Uranium-235/236	U	0.159	+/-0.202	0.251	0.500	pCi/g							
Uranium-238		1.24	+/-0.426	0.176	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.229	+/-0.557	0.960	1.00	pCi/g			JJ3	10/07/20	0045	2046354	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1010	2046330

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/Solid "Dry Weight Corrected"			75	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			85.9	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-38-3
Sample ID: 522864008
Matrix: Soil
Collect Date: 26-SEP-20 07:29
Receive Date: 30-SEP-20
Collector: Client
Moisture: 12.7%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.54	+/-0.456	0.258	0.500	pCi/g			MP2	10/05/20	1608	2046419	1
Uranium-235/236	U	0.102	+/-0.162	0.224	0.500	pCi/g							
Uranium-238		0.682	+/-0.310	0.230	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.121	+/-0.493	0.883	1.00	pCi/g			JJ3	10/07/20	0117	2046354	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1010	2046330

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/Solid "Dry Weight Corrected"			91.4	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			90.2	(15%-125%)

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

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: October 7, 2020

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

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

Client Sample ID: C-38-4
Sample ID: 522864009
Matrix: Soil
Collect Date: 26-SEP-20 07:37
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.2%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.10	+/-0.443	0.373	0.500	pCi/g			MP2	10/05/20	1608	2046419	1
Uranium-235/236	U	0.0372	+/-0.139	0.234	0.500	pCi/g							
Uranium-238		1.01	+/-0.413	0.293	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.266	+/-0.485	0.830	1.00	pCi/g			JJ3	10/07/20	0150	2046354	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1010	2046330

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/Solid "Dry Weight Corrected"			74.7	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92.8	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-38-5
Sample ID: 522864010
Matrix: Soil
Collect Date: 26-SEP-20 07:43
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.3%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.08	+/-0.407	0.322	0.500	pCi/g			MP2	10/05/20	1608	2046419	1
Uranium-235/236	U	0.0327	+/-0.123	0.207	0.500	pCi/g							
Uranium-238		0.551	+/-0.293	0.244	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.121	+/-0.445	0.774	1.00	pCi/g			JJ3	10/07/20	0337	2046354	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1010	2046330

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/Solid "Dry Weight Corrected"			77.1	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			90.5	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: S-38-1
Sample ID: 522864011
Matrix: Soil
Collect Date: 26-SEP-20 10:43
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.4%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		2.07	+/-0.500	0.255	0.500	pCi/g			MP2	10/05/20	1608	2046419	1
Uranium-235/236	U	0.166	+/-0.179	0.204	0.500	pCi/g							
Uranium-238		1.50	+/-0.422	0.165	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0775	+/-0.435	0.776	1.00	pCi/g			JJ3	10/07/20	0410	2046354	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1010	2046330

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/Solid "Dry Weight Corrected"			99.7	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			93.2	(15%-125%)

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

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: October 7, 2020

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

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

Client Sample ID: S-38-2
Sample ID: 522864012
Matrix: Soil
Collect Date: 26-SEP-20 10:51
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.3%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.09	+/-0.380	0.214	0.500	pCi/g			MP2	10/05/20	1608	2046419	1
Uranium-235/236	U	0.0701	+/-0.138	0.191	0.500	pCi/g							
Uranium-238		0.534	+/-0.278	0.238	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0108	+/-0.487	0.861	1.00	pCi/g			JJ3	10/07/20	0442	2046354	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1010	2046330

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/Solid "Dry Weight Corrected"			89.4	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92.2	(15%-125%)

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

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: October 7, 2020

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

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

Client Sample ID: S-38-3
Sample ID: 522864013
Matrix: Soil
Collect Date: 26-SEP-20 10:57
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.6%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		3.48	+/-0.731	0.374	0.500	pCi/g			MP2	10/05/20	1608	2046419	1
Uranium-235/236	U	0.201	+/-0.250	0.361	0.500	pCi/g							
Uranium-238		1.51	+/-0.488	0.305	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0342	+/-0.469	0.832	1.00	pCi/g			JJ3	10/07/20	0515	2046354	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1010	2046330

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/Solid "Dry Weight Corrected"			81.3	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			91.9	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: S-38-4
Sample ID: 522864014
Matrix: Soil
Collect Date: 26-SEP-20 11:07
Receive Date: 30-SEP-20
Collector: Client
Moisture: 8.78%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		3.30	+/-0.671	0.269	0.500	pCi/g			MP2	10/05/20	1608	2046419	1
Uranium-235/236	U	0.109	+/-0.193	0.314	0.500	pCi/g							
Uranium-238		0.834	+/-0.345	0.210	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.356	+/-0.478	0.879	1.00	pCi/g			JJ3	10/07/20	0547	2046354	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1010	2046330

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/Solid "Dry Weight Corrected"			90.3	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			88.9	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: S-38-5
Sample ID: 522864015
Matrix: Soil
Collect Date: 26-SEP-20 11:18
Receive Date: 30-SEP-20
Collector: Client
Moisture: 8.89%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		9.76	+/-1.36	0.345	0.500	pCi/g			MP2	10/05/20	1614	2046419	1
Uranium-235/236	U	0.151	+/-0.241	0.333	0.500	pCi/g							
Uranium-238		2.76	+/-0.727	0.233	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0560	+/-0.468	0.832	1.00	pCi/g			JJ3	10/07/20	0620	2046354	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1010	2046330

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/Solid "Dry Weight Corrected"			82	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			89.1	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-47-5
Sample ID: 522864016
Matrix: Soil
Collect Date: 26-SEP-20 09:12
Receive Date: 30-SEP-20
Collector: Client
Moisture: 10.2%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.62	+/-0.495	0.260	0.500	pCi/g			MP2	10/05/20	1614	2046419	1
Uranium-235/236	U	0.219	+/-0.223	0.220	0.500	pCi/g							
Uranium-238		1.29	+/-0.438	0.178	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.0508	+/-0.470	0.824	1.00	pCi/g			JJ3	10/07/20	0652	2046354	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1010	2046330

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/Solid "Dry Weight Corrected"			97.3	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			91	(15%-125%)

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

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: October 7, 2020

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

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

Client Sample ID: C-47-6
Sample ID: 522864017
Matrix: Soil
Collect Date: 26-SEP-20 09:20
Receive Date: 30-SEP-20
Collector: Client
Moisture: 8.03%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		0.901	+/-0.399	0.346	0.500	pCi/g			MP2	10/05/20	1614	2046419	1
Uranium-235/236		0.192	+/-0.211	0.144	0.500	pCi/g							
Uranium-238		1.08	+/-0.411	0.186	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.0778	+/-0.512	0.896	1.00	pCi/g			JJ3	10/07/20	0725	2046354	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1010	2046330

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/Solid "Dry Weight Corrected"			97.9	(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
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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 7, 2020

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

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

Client Sample ID: C-47-7
Sample ID: 522864018
Matrix: Soil
Collect Date: 26-SEP-20 09:26
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.22%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.31	+/-0.435	0.235	0.500	pCi/g			MP2	10/05/20	1614	2046419	1
Uranium-235/236	U	-0.0316	+/-0.0953	0.268	0.500	pCi/g							
Uranium-238		0.932	+/-0.369	0.217	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.242	+/-0.469	0.852	1.00	pCi/g			JJ3	10/07/20	0757	2046354	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1010	2046330

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/Solid "Dry Weight Corrected"			99.2	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			89.9	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-47-8
Sample ID: 522864019
Matrix: Soil
Collect Date: 26-SEP-20 09:31
Receive Date: 30-SEP-20
Collector: Client
Moisture: 11.3%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.68	+/-0.524	0.304	0.500	pCi/g			MP2	10/05/20	1611	2046419	1
Uranium-235/236		0.147	+/-0.194	0.147	0.500	pCi/g							
Uranium-238		1.06	+/-0.413	0.190	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.103	+/-0.527	0.940	1.00	pCi/g			JJ3	10/07/20	0830	2046354	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1010	2046330

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/Solid "Dry Weight Corrected"			93.3	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			86.3	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-8-1
Sample ID: 522864020
Matrix: Soil
Collect Date: 30-SEP-20 06:40
Receive Date: 30-SEP-20
Collector: Client
Moisture: 12.2%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.33	+/-0.460	0.281	0.500	pCi/g			MP2	10/05/20	1612	2046419	1
Uranium-235/236	U	0.0247	+/-0.137	0.264	0.500	pCi/g							
Uranium-238		1.47	+/-0.479	0.235	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0766	+/-0.512	0.912	1.00	pCi/g			JJ3	10/07/20	0902	2046354	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1010	2046330

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/Solid "Dry Weight Corrected"			87.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			86.6	(15%-125%)

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

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: October 7, 2020

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

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

Client Sample ID: C-8-2
Sample ID: 522864021
Matrix: Soil
Collect Date: 30-SEP-20 06:50
Receive Date: 30-SEP-20
Collector: Client
Moisture: 13.2%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		2.58	+/-0.650	0.323	0.500	pCi/g			MG1	10/05/20	1122	2046422	1
Uranium-235/236		0.150	+/-0.197	0.150	0.500	pCi/g							
Uranium-238		1.57	+/-0.501	0.194	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.368	+/-0.440	0.758	1.00	pCi/g			JJ3	10/06/20	1226	2047076	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1008	2046331

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/Solid "Dry Weight Corrected"			86.2	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94.8	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-8-3
Sample ID: 522864022
Matrix: Soil
Collect Date: 30-SEP-20 06:57
Receive Date: 30-SEP-20
Collector: Client
Moisture: 18.1%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		1.22	+/-0.404	0.269	0.500	pCi/g			MG1	10/05/20	1122	2046422	1
Uranium-235/236		0.324	+/-0.245	0.239	0.500	pCi/g							
Uranium-238		1.44	+/-0.437	0.275	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.497	+/-0.426	0.738	1.00	pCi/g			JJ3	10/06/20	1431	2047076	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1008	2046331

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/Solid "Dry Weight Corrected"			87.5	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94.7	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: October 7, 2020

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

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

Client Sample ID: C-8-4
Sample ID: 522864023
Matrix: Soil
Collect Date: 30-SEP-20 07:11
Receive Date: 30-SEP-20
Collector: Client
Moisture: 9.62%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		2.72	+/-0.628	0.409	0.500	pCi/g			MG1	10/05/20	1608	2046422	1
Uranium-235/236	U	0.128	+/-0.190	0.278	0.500	pCi/g							
Uranium-238		3.07	+/-0.646	0.275	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.419	+/-0.413	0.714	1.00	pCi/g			JJ3	10/06/20	1636	2047076	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1008	2046331

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/Solid "Dry Weight Corrected"			78.8	(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
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: October 7, 2020

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

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

Client Sample ID: C-8-5
Sample ID: 522864024
Matrix: Soil
Collect Date: 30-SEP-20 07:25
Receive Date: 30-SEP-20
Collector: Client
Moisture: 13%

Project: WNUC00901
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg/Solid "Dry Weight Corrected"													
Uranium-233/234		2.54	+/-0.666	0.403	0.500	pCi/g			MG1	10/05/20	1608	2046422	1
Uranium-235/236		0.325	+/-0.291	0.316	0.500	pCi/g							
Uranium-238		1.71	+/-0.541	0.294	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.264	+/-0.494	0.847	1.00	pCi/g			JJ3	10/06/20	1842	2047076	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	10/01/20	1008	2046331

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/Solid "Dry Weight Corrected"			78.4	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			93.1	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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

QC Summary

Report Date: October 7, 2020

Westinghouse Electric Company, LLC
PO Drawer R
Columbia, South Carolina

Contact: **Ms. Cynthia Teague**

Workorder: **522864**

Parmname			NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography															
Batch 2046865															
QC1204657513	522863018	DUP													
Fluoride				J	1.09		1.28	mg/kg	16	^		(+/-1.16)	LXA2	10/02/20	05:55
QC1204657511	LCS														
Fluoride			23.3				22.9	mg/kg			98.4	(90%-110%)		10/02/20	03:40
QC1204657510	MB														
Fluoride						U	ND	mg/kg						10/02/20	13:41
QC1204657515	522863018	MS													
Fluoride			27.5	J	1.09		8.62	mg/kg			27.4*	(75%-125%)		10/02/20	06:22
Batch 2046867															
QC1204657518	522864008	DUP													
Fluoride				J	0.505	J	0.517	mg/kg	2.25	^		(+/-1.17)	LXA2	10/03/20	03:27
QC1204657519	522864009	DUP													
Fluoride				U	ND	U	ND	mg/kg	N/A					10/03/20	04:51
QC1204657517	LCS														
Fluoride			25.2				24.7	mg/kg			97.9	(90%-110%)		10/03/20	02:31
QC1204657516	MB														
Fluoride						U	ND	mg/kg						10/03/20	02:03
QC1204657520	522864008	MS													
Fluoride			28.9	J	0.505		10.4	mg/kg			34.3*	(75%-125%)		10/03/20	03:55
QC1204657521	522864009	MS													
Fluoride			27.2	U	ND		8.53	mg/kg			30.2*	(75%-125%)		10/03/20	05:19

QC Summary

Workorder: 522864

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2046325											
QC1204656335 LCS											
Uranium-235	33.8				36.3	ug/kg		107	(80%-120%)	PRB	10/07/20 08:47
Uranium-238	4660				4980	ug/kg		107	(80%-120%)		
QC1204656339 LCS											
Uranium-234	49.5				53.2	ug/kg		108	(80%-120%)		10/07/20 02:25
QC1204656334 MB											
Uranium-234				U	ND	ug/kg					10/07/20 02:23
Uranium-235				U	ND	ug/kg					10/07/20 08:45
Uranium-238				U	ND	ug/kg					
QC1204656336 522862006 MS											
Uranium-235	39.5	J	12.3		53.9	ug/kg		106	(75%-125%)		10/07/20 08:50
Uranium-238	5440		1190		6940	ug/kg		106	(75%-125%)		
QC1204656340 522862006 MS											
Uranium-234	60.9	U	ND		64.5	ug/kg		105	(75%-125%)		10/07/20 02:28
QC1204656337 522862006 MSD											
Uranium-235	37.8	J	12.3		52.7	ug/kg	2.27	107	(0%-20%)		10/07/20 08:52
Uranium-238	5210		1190		6750	ug/kg	2.76	107	(0%-20%)		
QC1204656341 522862006 MSD											
Uranium-234	56.0	U	ND		59.1	ug/kg	8.74	105	(0%-20%)		10/07/20 02:29
QC1204656338 522862006 SDILT											
Uranium-234		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/07/20 02:31

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2046325										
Uranium-235	J	0.0604	J	0.0112	ug/L	7.28		(0%-20%)	PRB	10/07/20 08:55
Uranium-238		5.88		1.14	ug/L	3.42		(0%-20%)		
Volatile-GC/MS										
Batch 2047333										
QC1204658518 LCS										
1,1,1,2-Tetrachloroethane	50.0			49.8	ug/kg		100	(74%-129%)	JP1	10/02/20 15:29
1,1,1-Trichloroethane	50.0			47.5	ug/kg		95	(73%-135%)		
1,1,2,2-Tetrachloroethane	50.0			47.9	ug/kg		96	(73%-122%)		
1,1,2-Trichloroethane	50.0			48.0	ug/kg		96	(75%-120%)		
1,1-Dichloroethane	50.0			47.9	ug/kg		96	(75%-122%)		
1,1-Dichloroethylene	50.0			49.4	ug/kg		99	(71%-130%)		
1,2,3-Trichloropropane	50.0			46.3	ug/kg		93	(73%-123%)		
1,2,4-Trichlorobenzene	50.0			53.7	ug/kg		107	(69%-130%)		
1,2-Dibromo-3-chloropropane	50.0			48.5	ug/kg		97	(67%-128%)		
1,2-Dibromoethane	50.0			49.2	ug/kg		98	(77%-123%)		
1,2-Dichloroethane	50.0			43.0	ug/kg		86	(72%-121%)		
1,2-Dichloropropane	50.0			48.4	ug/kg		97	(73%-122%)		

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2047333											
2-Butanone	250			216	ug/kg		86	(62%-141%)	JP1	10/02/20	15:29
2-Hexanone	250			226	ug/kg		90	(58%-149%)			
4-Methyl-2-pentanone	250			228	ug/kg		91	(65%-123%)			
Acetone	250			205	ug/kg		82	(60%-143%)			
Acetonitrile	1250			1100	ug/kg		88	(54%-120%)			
Benzene	50.0			45.3	ug/kg		91	(73%-122%)			
Bromodichloromethane	50.0			47.4	ug/kg		95	(76%-129%)			
Bromoform	50.0			57.0	ug/kg		114	(69%-131%)			
Bromomethane	50.0			56.4	ug/kg		113	(66%-132%)			
Carbon disulfide	250			234	ug/kg		94	(66%-134%)			
Carbon tetrachloride	50.0			48.4	ug/kg		97	(71%-140%)			
Chlorobenzene	50.0			48.2	ug/kg		96	(73%-120%)			
Chloroethane	50.0			50.9	ug/kg		102	(67%-129%)			
Chloroform	50.0			48.9	ug/kg		98	(75%-123%)			
Chloromethane	50.0			44.7	ug/kg		89	(58%-129%)			

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2047333											
Dibromochloromethane	50.0			53.1	ug/kg		106	(75%-129%)	JP1	10/02/20	15:29
Dibromomethane	50.0			46.3	ug/kg		93	(76%-121%)			
Dichlorodifluoromethane	50.0			37.7	ug/kg		75	(43%-158%)			
Ethylbenzene	50.0			46.2	ug/kg		92	(72%-123%)			
Iodomethane	250			250	ug/kg		100	(69%-126%)			
Methylene chloride	50.0			43.4	ug/kg		87	(68%-124%)			
Styrene	50.0			48.5	ug/kg		97	(72%-127%)			
Tetrachloroethylene	50.0			51.3	ug/kg		103	(68%-129%)			
Toluene	50.0			45.4	ug/kg		91	(72%-120%)			
Trichloroethylene	50.0			45.5	ug/kg		91	(72%-127%)			
Trichlorofluoromethane	50.0			45.1	ug/kg		90	(69%-135%)			
Vinyl acetate	250			243	ug/kg		97	(59%-139%)			
Vinyl chloride	50.0			46.5	ug/kg		93	(67%-135%)			
Xylenes (total)	150			141	ug/kg		94	(66%-126%)			
cis-1,3-Dichloropropylene	50.0			48.7	ug/kg		97	(78%-129%)			

QC Summary

Workorder: 522864

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
trans-1,2-Dichloroethylene	50.0			49.0	ug/kg		98	(74%-124%)	JP1	10/02/20 15:29
trans-1,3-Dichloropropylene	50.0			48.6	ug/kg		97	(78%-127%)		
**1,2-Dichloroethane-d4	50.0			50.4	ug/L		101	(81%-124%)		
**Bromofluorobenzene	50.0			49.9	ug/L		100	(70%-130%)		
**Toluene-d8	50.0			51.7	ug/L		103	(81%-120%)		
QC1204658519 LCS										
1,1,1,2-Tetrachloroethane	50.0			47.3	ug/kg		95	(74%-129%)		10/05/20 18:46
1,1,1-Trichloroethane	50.0			45.3	ug/kg		91	(73%-135%)		
1,1,2,2-Tetrachloroethane	50.0			48.1	ug/kg		96	(73%-122%)		
1,1,2-Trichloroethane	50.0			47.3	ug/kg		95	(75%-120%)		
1,1-Dichloroethane	50.0			45.8	ug/kg		92	(75%-122%)		
1,1-Dichloroethylene	50.0			46.4	ug/kg		93	(71%-130%)		
1,2,3-Trichloropropane	50.0			47.3	ug/kg		95	(73%-123%)		
1,2,4-Trichlorobenzene	50.0			51.1	ug/kg		102	(69%-130%)		
1,2-Dibromo-3-chloropropane	50.0			50.8	ug/kg		102	(67%-128%)		
1,2-Dibromoethane	50.0			48.7	ug/kg		97	(77%-123%)		

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
1,2-Dichloroethane	50.0			42.7	ug/kg		85	(72%-121%)	JP1	10/05/20 18:46
1,2-Dichloropropane	50.0			47.2	ug/kg		94	(73%-122%)		
2-Butanone	250			230	ug/kg		92	(62%-141%)		
2-Hexanone	250			244	ug/kg		98	(58%-149%)		
4-Methyl-2-pentanone	250			239	ug/kg		96	(65%-123%)		
Acetone	250			214	ug/kg		86	(60%-143%)		
Acetonitrile	1250			1130	ug/kg		91	(54%-120%)		
Benzene	50.0			43.4	ug/kg		87	(73%-122%)		
Bromodichloromethane	50.0			46.4	ug/kg		93	(76%-129%)		
Bromoform	50.0			56.2	ug/kg		112	(69%-131%)		
Bromomethane	50.0			66.6	ug/kg		133*	(66%-132%)		
Carbon disulfide	250			219	ug/kg		88	(66%-134%)		
Carbon tetrachloride	50.0			46.0	ug/kg		92	(71%-140%)		
Chlorobenzene	50.0			45.9	ug/kg		92	(73%-120%)		
Chloroethane	50.0			59.0	ug/kg		118	(67%-129%)		

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
Chloroform	50.0			47.3	ug/kg		95	(75%-123%)	JP1	10/05/20 18:46
Chloromethane	50.0			55.0	ug/kg		110	(58%-129%)		
Dibromochloromethane	50.0			51.6	ug/kg		103	(75%-129%)		
Dibromomethane	50.0			46.0	ug/kg		92	(76%-121%)		
Dichlorodifluoromethane	50.0			54.7	ug/kg		109	(43%-158%)		
Ethylbenzene	50.0			43.8	ug/kg		88	(72%-123%)		
Iodomethane	250			237	ug/kg		95	(69%-126%)		
Methylene chloride	50.0			42.5	ug/kg		85	(68%-124%)		
Styrene	50.0			46.4	ug/kg		93	(72%-127%)		
Tetrachloroethylene	50.0			48.1	ug/kg		96	(68%-129%)		
Toluene	50.0			42.8	ug/kg		86	(72%-120%)		
Trichloroethylene	50.0			43.9	ug/kg		88	(72%-127%)		
Trichlorofluoromethane	50.0			52.4	ug/kg		105	(69%-135%)		
Vinyl acetate	250			284	ug/kg		114	(59%-139%)		
Vinyl chloride	50.0			56.2	ug/kg		112	(67%-135%)		

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
Xylenes (total)	150			133	ug/kg		89	(66%-126%)	JP1	10/05/20 18:46
cis-1,3-Dichloropropylene	50.0			48.1	ug/kg		96	(78%-129%)		
trans-1,2-Dichloroethylene	50.0			46.8	ug/kg		94	(74%-124%)		
trans-1,3-Dichloropropylene	50.0			47.3	ug/kg		95	(78%-127%)		
**1,2-Dichloroethane-d4	50.0			51.8	ug/L		104	(81%-124%)		
**Bromofluorobenzene	50.0			48.6	ug/L		97	(70%-130%)		
**Toluene-d8	50.0			50.9	ug/L		102	(81%-120%)		
QC1204658514 MB										
1,1,1,2-Tetrachloroethane			U	ND	ug/kg					10/02/20 16:47
1,1,1-Trichloroethane			U	ND	ug/kg					
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-Trichloropropane			U	ND	ug/kg					
1,2,4-Trichlorobenzene			U	ND	ug/kg					

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
1,2-Dibromo-3-chloropropane			U	ND	ug/kg				JP1	10/02/20 16:47
1,2-Dibromoethane			U	ND	ug/kg					
1,2-Dichloroethane			U	ND	ug/kg					
1,2-Dichloropropane			U	ND	ug/kg					
2-Butanone			U	ND	ug/kg					
2-Chloro-1,3-butadiene			U	ND	ug/kg					
2-Hexanone			U	ND	ug/kg					
4-Methyl-2-pentanone			U	ND	ug/kg					
Acetone			U	ND	ug/kg					
Acetonitrile			U	ND	ug/kg					
Acrolein			U	ND	ug/kg					
Acrylonitrile			U	ND	ug/kg					
Allyl chloride			U	ND	ug/kg					
Benzene			U	ND	ug/kg					
Bromodichloromethane			U	ND	ug/kg					

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
Bromoform			U	ND	ug/kg				JP1	10/02/20 16:47
Bromomethane			U	ND	ug/kg					
Carbon disulfide			U	ND	ug/kg					
Carbon tetrachloride			U	ND	ug/kg					
Chlorobenzene			U	ND	ug/kg					
Chloroethane			U	ND	ug/kg					
Chloroform			U	ND	ug/kg					
Chloromethane			U	ND	ug/kg					
Dibromochloromethane			U	ND	ug/kg					
Dibromomethane			U	ND	ug/kg					
Dichlorodifluoromethane			U	ND	ug/kg					
Ethyl methacrylate			U	ND	ug/kg					
Ethylbenzene			U	ND	ug/kg					
Iodomethane			U	ND	ug/kg					
Isobutyl alcohol			U	ND	ug/kg					

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
Methacrylonitrile			U	ND	ug/kg				JP1	10/02/20 16:47
Methyl methacrylate			U	ND	ug/kg					
Methylene chloride			U	ND	ug/kg					
Pentachloroethane			U	ND	ug/kg					
Propionitrile			U	ND	ug/kg					
Styrene			U	ND	ug/kg					
Tetrachloroethylene			U	ND	ug/kg					
Toluene			U	ND	ug/kg					
Trichloroethylene			U	ND	ug/kg					
Trichlorofluoromethane			U	ND	ug/kg					
Vinyl acetate			U	ND	ug/kg					
Vinyl chloride			U	ND	ug/kg					
Xylenes (total)			U	ND	ug/kg					
bis(2-Chloro-1-methylethyl)ether			U	ND	ug/kg					
cis-1,3-Dichloropropylene			U	ND	ug/kg					

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
trans-1,2-Dichloroethylene			U	ND	ug/kg				JP1	10/02/20 16:47
trans-1,3-Dichloropropylene			U	ND	ug/kg					
trans-1,4-Dichloro-2-butene			U	ND	ug/kg					
**1,2-Dichloroethane-d4	50.0			48.9	ug/L		98	(81%-124%)		
**Bromofluorobenzene	50.0			47.9	ug/L		96	(70%-130%)		
**Toluene-d8	50.0			50.9	ug/L		102	(81%-120%)		
QC1204658515 MB										
1,1,1,2-Tetrachloroethane			U	ND	ug/kg					10/05/20 20:04
1,1,1-Trichloroethane			U	ND	ug/kg					
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-Trichloropropane			U	ND	ug/kg					
1,2,4-Trichlorobenzene			U	ND	ug/kg					
1,2-Dibromo-3-chloropropane			U	ND	ug/kg					

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2047333											
1,2-Dibromoethane			U	ND	ug/kg				JP1	10/05/20	20:04
1,2-Dichloroethane			U	ND	ug/kg						
1,2-Dichloropropane			U	ND	ug/kg						
2-Butanone			U	ND	ug/kg						
2-Chloro-1,3-butadiene			U	ND	ug/kg						
2-Hexanone			U	ND	ug/kg						
4-Methyl-2-pentanone			U	ND	ug/kg						
Acetone			U	ND	ug/kg						
Acetonitrile			U	ND	ug/kg						
Acrolein			U	ND	ug/kg						
Acrylonitrile			U	ND	ug/kg						
Allyl chloride			U	ND	ug/kg						
Benzene			U	ND	ug/kg						
Bromodichloromethane			U	ND	ug/kg						
Bromoform			U	ND	ug/kg						

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2047333										
Bromomethane			U	ND	ug/kg				JP1	10/05/20 20:04
Carbon disulfide			U	ND	ug/kg					
Carbon tetrachloride			U	ND	ug/kg					
Chlorobenzene			U	ND	ug/kg					
Chloroethane			U	ND	ug/kg					
Chloroform			U	ND	ug/kg					
Chloromethane			U	ND	ug/kg					
Dibromochloromethane			U	ND	ug/kg					
Dibromomethane			U	ND	ug/kg					
Dichlorodifluoromethane			U	ND	ug/kg					
Ethyl methacrylate			U	ND	ug/kg					
Ethylbenzene			U	ND	ug/kg					
Iodomethane			U	ND	ug/kg					
Isobutyl alcohol			U	ND	ug/kg					
Methacrylonitrile			U	ND	ug/kg					

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2047333											
Methyl methacrylate			U	ND	ug/kg				JP1	10/05/20	20:04
Methylene chloride			U	ND	ug/kg						
Pentachloroethane			U	ND	ug/kg						
Propionitrile			U	ND	ug/kg						
Styrene			U	ND	ug/kg						
Tetrachloroethylene			U	ND	ug/kg						
Toluene			U	ND	ug/kg						
Trichloroethylene			U	ND	ug/kg						
Trichlorofluoromethane			U	ND	ug/kg						
Vinyl acetate			U	ND	ug/kg						
Vinyl chloride			U	ND	ug/kg						
Xylenes (total)			U	ND	ug/kg						
bis(2-Chloro-1-methylethyl)ether			U	ND	ug/kg						
cis-1,3-Dichloropropylene			U	ND	ug/kg						
trans-1,2-Dichloroethylene			U	ND	ug/kg						

QC Summary

Workorder: 522864

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2047333											
trans-1,3-Dichloropropylene				U	ND	ug/kg				JP1	10/05/20 20:04
trans-1,4-Dichloro-2-butene				U	ND	ug/kg					
**1,2-Dichloroethane-d4	50.0				50.7	ug/L		101	(81%-124%)		
**Bromofluorobenzene	50.0				47.1	ug/L		94	(70%-130%)		
**Toluene-d8	50.0				51.0	ug/L		102	(81%-120%)		
QC1204658521 522197001 PS											
1,1,1,2-Tetrachloroethane	50.0	U	ND		42.2	ug/L		84	(55%-133%)		10/06/20 02:57
1,1,1-Trichloroethane	50.0	U	ND		42.8	ug/L		86	(65%-137%)		
1,1,2,2-Tetrachloroethane	50.0	U	ND		43.1	ug/L		86	(60%-133%)		
1,1,2-Trichloroethane	50.0	U	ND		43.1	ug/L		86	(46%-136%)		
1,1-Dichloroethane	50.0	U	ND		42.8	ug/L		86	(65%-126%)		
1,1-Dichloroethylene	50.0	U	ND		41.8	ug/L		84	(57%-138%)		
1,2,3-Trichloropropane	50.0	U	ND		42.7	ug/L		85	(63%-132%)		
1,2,4-Trichlorobenzene	50.0	U	ND		41.6	ug/L		83	(38%-150%)		
1,2-Dibromo-3-chloropropane	50.0	U	ND		47.1	ug/L		94	(47%-135%)		
1,2-Dibromoethane	50.0	U	ND		43.0	ug/L		86	(54%-134%)		

QC Summary

Workorder: **522864**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2047333											
1,2-Dichloroethane	50.0	U	ND		38.9	ug/L		78	(62%-125%)	JP1	10/06/20 02:57
1,2-Dichloropropane	50.0	U	ND		44.4	ug/L		89	(58%-127%)		
2-Butanone	250	J	4.54		205	ug/L		80	(40%-147%)		
2-Hexanone	250	U	ND		210	ug/L		84	(28%-152%)		
4-Methyl-2-pentanone	250	U	ND		210	ug/L		84	(47%-135%)		
Acetone	250	U	ND		171	ug/L		68	(30%-151%)		
Acetonitrile	1250	U	ND		1010	ug/L		81	(36%-141%)		
Benzene	50.0	U	ND		40.4	ug/L		81	(56%-129%)		
Bromodichloromethane	50.0	U	ND		43.3	ug/L		87	(58%-135%)		
Bromoform	50.0	U	ND		49.8	ug/L		100	(56%-138%)		
Bromomethane	50.0	U	ND		23.9	ug/L		48	(30%-135%)		
Carbon disulfide	250	U	ND		199	ug/L		80	(51%-145%)		
Carbon tetrachloride	50.0	U	ND		43.5	ug/L		87	(53%-143%)		
Chlorobenzene	50.0	U	ND		39.1	ug/L		78	(48%-127%)		
Chloroethane	50.0	U	ND		61.8	ug/L		124	(45%-130%)		

QC Summary

Workorder: **522864**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2047333											
Chloroform	50.0	U	ND		43.8	ug/L		88	(66%-125%)	JP1	10/06/20 02:57
Chloromethane	50.0	U	ND		61.6	ug/L		123	(42%-150%)		
Dibromochloromethane	50.0	U	ND		46.4	ug/L		93	(53%-138%)		
Dibromomethane	50.0	U	ND		42.0	ug/L		84	(62%-124%)		
Dichlorodifluoromethane	50.0	U	ND		62.7	ug/L		125	(40%-142%)		
Ethylbenzene	50.0	U	ND		36.8	ug/L		74	(45%-132%)		
Iodomethane	250	U	ND		207	ug/L		83	(57%-135%)		
Methylene chloride	50.0	U	ND		38.6	ug/L		77	(60%-127%)		
Styrene	50.0	U	ND		38.4	ug/L		77	(39%-137%)		
Tetrachloroethylene	50.0	J	0.390		41.7	ug/L		83	(51%-138%)		
Toluene	50.0	J	0.380		38.2	ug/L		76	(56%-132%)		
Trichloroethylene	50.0	U	ND		39.9	ug/L		80	(56%-136%)		
Trichlorofluoromethane	50.0		7.96		82.9	ug/L		150*	(55%-135%)		
Vinyl acetate	250	U	ND		208	ug/L		83	(45%-139%)		
Vinyl chloride	50.0	U	ND		60.9	ug/L		122	(50%-145%)		

QC Summary

Workorder: 522864

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2047333											
Xylenes (total)	150	J	1.30		112	ug/L		74	(38%-136%)	JP1	10/06/20 02:57
cis-1,3-Dichloropropylene	50.0	U	ND		42.6	ug/L		85	(47%-139%)		
trans-1,2-Dichloroethylene	50.0	U	ND		41.7	ug/L		83	(57%-129%)		
trans-1,3-Dichloropropylene	50.0	U	ND		40.9	ug/L		82	(48%-138%)		
**1,2-Dichloroethane-d4	50.0		49.6		49.9	ug/L		100	(81%-124%)		
**Bromofluorobenzene	50.0		47.7		49.6	ug/L		99	(70%-130%)		
**Toluene-d8	50.0		51.6		51.9	ug/L		104	(81%-120%)		
QC1204658522 522197001 PSD											
1,1,1,2-Tetrachloroethane	50.0	U	ND		42.2	ug/L	0	84	(0%-20%)		10/06/20 03:22
1,1,1-Trichloroethane	50.0	U	ND		44.9	ug/L	5	90	(0%-20%)		
1,1,2,2-Tetrachloroethane	50.0	U	ND		44.7	ug/L	4	89	(0%-20%)		
1,1,2-Trichloroethane	50.0	U	ND		44.0	ug/L	2	88	(0%-20%)		
1,1-Dichloroethane	50.0	U	ND		43.7	ug/L	2	87	(0%-20%)		
1,1-Dichloroethylene	50.0	U	ND		43.9	ug/L	5	88	(0%-20%)		
1,2,3-Trichloropropane	50.0	U	ND		44.5	ug/L	4	89	(0%-20%)		
1,2,4-Trichlorobenzene	50.0	U	ND		43.5	ug/L	4	87	(0%-20%)		

QC Summary

Workorder: **522864**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2047333											
1,2-Dibromo-3-chloropropane	50.0	U	ND		51.6	ug/L	9	103	(0%-20%)	JP1	10/06/20 03:22
1,2-Dibromoethane	50.0	U	ND		44.4	ug/L	3	89	(0%-20%)		
1,2-Dichloroethane	50.0	U	ND		40.4	ug/L	4	81	(0%-20%)		
1,2-Dichloropropane	50.0	U	ND		46.1	ug/L	4	92	(0%-20%)		
2-Butanone	250	J	4.54		221	ug/L	7	86	(0%-20%)		
2-Hexanone	250	U	ND		223	ug/L	6	89	(0%-20%)		
4-Methyl-2-pentanone	250	U	ND		220	ug/L	5	88	(0%-20%)		
Acetone	250	U	ND		175	ug/L	2	70	(0%-20%)		
Acetonitrile	1250	U	ND		966	ug/L	5	77	(0%-20%)		
Benzene	50.0	U	ND		41.4	ug/L	2	83	(0%-20%)		
Bromodichloromethane	50.0	U	ND		45.1	ug/L	4	90	(0%-20%)		
Bromoform	50.0	U	ND		52.8	ug/L	6	106	(0%-20%)		
Bromomethane	50.0	U	ND		48.2	ug/L	67*	96	(0%-20%)		
Carbon disulfide	250	U	ND		206	ug/L	3	82	(0%-20%)		
Carbon tetrachloride	50.0	U	ND		45.5	ug/L	5	91	(0%-20%)		

QC Summary

Workorder: **522864**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2047333											
Chlorobenzene	50.0	U	ND		38.7	ug/L	1	77	(0%-20%)	JP1	10/06/20 03:22
Chloroethane	50.0	U	ND		57.8	ug/L	7	116	(0%-20%)		
Chloroform	50.0	U	ND		45.0	ug/L	3	90	(0%-20%)		
Chloromethane	50.0	U	ND		61.1	ug/L	1	122	(0%-20%)		
Dibromochloromethane	50.0	U	ND		48.4	ug/L	4	97	(0%-20%)		
Dibromomethane	50.0	U	ND		43.7	ug/L	4	87	(0%-20%)		
Dichlorodifluoromethane	50.0	U	ND		64.6	ug/L	3	129	(0%-20%)		
Ethylbenzene	50.0	U	ND		35.9	ug/L	2	72	(0%-20%)		
Iodomethane	250	U	ND		216	ug/L	4	87	(0%-20%)		
Methylene chloride	50.0	U	ND		39.8	ug/L	3	80	(0%-20%)		
Styrene	50.0	U	ND		38.4	ug/L	0	77	(0%-20%)		
Tetrachloroethylene	50.0	J	0.390		41.1	ug/L	1	81	(0%-20%)		
Toluene	50.0	J	0.380		38.0	ug/L	0	75	(0%-20%)		
Trichloroethylene	50.0	U	ND		40.8	ug/L	2	82	(0%-20%)		
Trichlorofluoromethane	50.0		7.96		81.6	ug/L	2	147*	(0%-20%)		

QC Summary

Workorder: 522864

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2047333											
Vinyl acetate	250	U	ND		220	ug/L	5	88	(0%-20%)	JP1	10/06/20 03:22
Vinyl chloride	50.0	U	ND		61.3	ug/L	1	123	(0%-20%)		
Xylenes (total)	150	J	1.30		111	ug/L	1	73	(0%-20%)		
cis-1,3-Dichloropropylene	50.0	U	ND		44.1	ug/L	4	88	(0%-20%)		
trans-1,2-Dichloroethylene	50.0	U	ND		42.4	ug/L	2	85	(0%-20%)		
trans-1,3-Dichloropropylene	50.0	U	ND		41.8	ug/L	2	84	(0%-20%)		
**1,2-Dichloroethane-d4	50.0		49.6		49.8	ug/L		100	(81%-124%)		
**Bromofluorobenzene	50.0		47.7		48.8	ug/L		98	(70%-130%)		
**Toluene-d8	50.0		51.6		50.3	ug/L		101	(81%-120%)		
Batch 2048011											
QC1204660173 LCS											
1,1,1,2-Tetrachloroethane	50.0				47.3	ug/kg		95	(74%-129%)	JP1	10/05/20 18:46
1,1,1-Trichloroethane	50.0				45.3	ug/kg		91	(73%-135%)		
1,1,2,2-Tetrachloroethane	50.0				48.1	ug/kg		96	(73%-122%)		
1,1,2-Trichloroethane	50.0				47.3	ug/kg		95	(75%-120%)		
1,1-Dichloroethane	50.0				45.8	ug/kg		92	(75%-122%)		
1,1-Dichloroethylene	50.0				46.4	ug/kg		93	(71%-130%)		

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2048011										
1,2,3-Trichloropropane	50.0			47.3	ug/kg		95	(73%-123%)	JP1	10/05/20 18:46
1,2,4-Trichlorobenzene	50.0			51.1	ug/kg		102	(69%-130%)		
1,2-Dibromo-3-chloropropane	50.0			50.8	ug/kg		102	(67%-128%)		
1,2-Dibromoethane	50.0			48.7	ug/kg		97	(77%-123%)		
1,2-Dichloroethane	50.0			42.7	ug/kg		85	(72%-121%)		
1,2-Dichloropropane	50.0			47.2	ug/kg		94	(73%-122%)		
2-Butanone	250			230	ug/kg		92	(62%-141%)		
2-Hexanone	250			244	ug/kg		98	(58%-149%)		
4-Methyl-2-pentanone	250			239	ug/kg		96	(65%-123%)		
Acetone	250			214	ug/kg		86	(60%-143%)		
Acetonitrile	1250			1130	ug/kg		91	(54%-120%)		
Benzene	50.0			43.4	ug/kg		87	(73%-122%)		
Bromodichloromethane	50.0			46.4	ug/kg		93	(76%-129%)		
Bromoform	50.0			56.2	ug/kg		112	(69%-131%)		
Bromomethane	50.0			66.6	ug/kg		133*	(66%-132%)		

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2048011										
Carbon disulfide	250			219	ug/kg		88	(66%-134%)	JP1	10/05/20 18:46
Carbon tetrachloride	50.0			46.0	ug/kg		92	(71%-140%)		
Chlorobenzene	50.0			45.9	ug/kg		92	(73%-120%)		
Chloroethane	50.0			59.0	ug/kg		118	(67%-129%)		
Chloroform	50.0			47.3	ug/kg		95	(75%-123%)		
Chloromethane	50.0			55.0	ug/kg		110	(58%-129%)		
Dibromochloromethane	50.0			51.6	ug/kg		103	(75%-129%)		
Dibromomethane	50.0			46.0	ug/kg		92	(76%-121%)		
Dichlorodifluoromethane	50.0			54.7	ug/kg		109	(43%-158%)		
Ethylbenzene	50.0			43.8	ug/kg		88	(72%-123%)		
Iodomethane	250			237	ug/kg		95	(69%-126%)		
Methylene chloride	50.0			42.5	ug/kg		85	(68%-124%)		
Styrene	50.0			46.4	ug/kg		93	(72%-127%)		
Tetrachloroethylene	50.0			48.1	ug/kg		96	(68%-129%)		
Toluene	50.0			42.8	ug/kg		86	(72%-120%)		

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2048011										
Trichloroethylene	50.0			43.9	ug/kg		88	(72%-127%)	JP1	10/05/20 18:46
Trichlorofluoromethane	50.0			52.4	ug/kg		105	(69%-135%)		
Vinyl acetate	250			284	ug/kg		114	(59%-139%)		
Vinyl chloride	50.0			56.2	ug/kg		112	(67%-135%)		
Xylenes (total)	150			133	ug/kg		89	(66%-126%)		
cis-1,3-Dichloropropylene	50.0			48.1	ug/kg		96	(78%-129%)		
trans-1,2-Dichloroethylene	50.0			46.8	ug/kg		94	(74%-124%)		
trans-1,3-Dichloropropylene	50.0			47.3	ug/kg		95	(78%-127%)		
**1,2-Dichloroethane-d4	50.0			51.8	ug/L		104	(81%-124%)		
**Bromofluorobenzene	50.0			48.6	ug/L		97	(70%-130%)		
**Toluene-d8	50.0			50.9	ug/L		102	(81%-120%)		
QC1204660169 MB										
1,1,1,2-Tetrachloroethane			U	ND	ug/kg					10/05/20 20:04
1,1,1-Trichloroethane			U	ND	ug/kg					
1,1,2,2-Tetrachloroethane			U	ND	ug/kg					
1,1,2-Trichloroethane			U	ND	ug/kg					

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2048011										
1,1-Dichloroethane			U	ND	ug/kg				JP1	10/05/20 20:04
1,1-Dichloroethylene			U	ND	ug/kg					
1,2,3-Trichloropropane			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-Dichloroethane			U	ND	ug/kg					
1,2-Dichloropropane			U	ND	ug/kg					
2-Butanone			U	ND	ug/kg					
2-Chloro-1,3-butadiene			U	ND	ug/kg					
2-Hexanone			U	ND	ug/kg					
4-Methyl-2-pentanone			U	ND	ug/kg					
Acetone			U	ND	ug/kg					
Acetonitrile			U	ND	ug/kg					
Acrolein			U	ND	ug/kg					

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2048011										
Acrylonitrile			U	ND	ug/kg				JP1	10/05/20 20:04
Allyl chloride			U	ND	ug/kg					
Benzene			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					
Chlorobenzene			U	ND	ug/kg					
Chloroethane			U	ND	ug/kg					
Chloroform			U	ND	ug/kg					
Chloromethane			U	ND	ug/kg					
Dibromochloromethane			U	ND	ug/kg					
Dibromomethane			U	ND	ug/kg					
Dichlorodifluoromethane			U	ND	ug/kg					

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2048011										
Ethyl methacrylate			U	ND	ug/kg				JP1	10/05/20 20:04
Ethylbenzene			U	ND	ug/kg					
Iodomethane			U	ND	ug/kg					
Isobutyl alcohol			U	ND	ug/kg					
Methacrylonitrile			U	ND	ug/kg					
Methyl methacrylate			U	ND	ug/kg					
Methylene chloride			U	ND	ug/kg					
Pentachloroethane			U	ND	ug/kg					
Propionitrile			U	ND	ug/kg					
Styrene			U	ND	ug/kg					
Tetrachloroethylene			U	ND	ug/kg					
Toluene			U	ND	ug/kg					
Trichloroethylene			U	ND	ug/kg					
Trichlorofluoromethane			U	ND	ug/kg					
Vinyl acetate			U	ND	ug/kg					

QC Summary

Workorder: 522864

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2048011										
Vinyl chloride			U	ND	ug/kg				JP1	10/05/20 20:04
Xylenes (total)			U	ND	ug/kg					
bis(2-Chloro-1-methylethyl)ether			U	ND	ug/kg					
cis-1,3-Dichloropropylene			U	ND	ug/kg					
trans-1,2-Dichloroethylene			U	ND	ug/kg					
trans-1,3-Dichloropropylene			U	ND	ug/kg					
trans-1,4-Dichloro-2-butene			U	ND	ug/kg					
**1,2-Dichloroethane-d4	50.0			50.7	ug/L		101	(81%-124%)		
**Bromofluorobenzene	50.0			47.1	ug/L		94	(70%-130%)		
**Toluene-d8	50.0			51.0	ug/L		102	(81%-120%)		
QC1204660175 522934002 PS										
1,1,1,2-Tetrachloroethane	50.0	U	ND	43.4	ug/L		87	(55%-133%)		10/06/20 05:31
1,1,1-Trichloroethane	50.0	U	ND	41.0	ug/L		82	(65%-137%)		
1,1,2,2-Tetrachloroethane	50.0	U	ND	43.3	ug/L		87	(60%-133%)		
1,1,2-Trichloroethane	50.0	U	ND	43.1	ug/L		86	(46%-136%)		
1,1-Dichloroethane	50.0	U	ND	41.0	ug/L		82	(65%-126%)		

QC Summary

Workorder: **522864**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2048011											
1,1-Dichloroethylene	50.0	U	ND		41.4	ug/L		83	(57%-138%)	JP1	10/06/20 05:31
1,2,3-Trichloropropane	50.0	U	ND		43.0	ug/L		86	(63%-132%)		
1,2,4-Trichlorobenzene	50.0	U	ND		42.2	ug/L		84	(38%-150%)		
1,2-Dibromo-3-chloropropane	50.0	U	ND		45.5	ug/L		91	(47%-135%)		
1,2-Dibromoethane	50.0	U	ND		43.5	ug/L		87	(54%-134%)		
1,2-Dichloroethane	50.0	U	ND		37.2	ug/L		74	(62%-125%)		
1,2-Dichloropropane	50.0	U	ND		42.5	ug/L		85	(58%-127%)		
2-Butanone	250	U	ND		195	ug/L		78	(40%-147%)		
2-Hexanone	250	U	ND		200	ug/L		80	(28%-152%)		
4-Methyl-2-pentanone	250	U	ND		201	ug/L		81	(47%-135%)		
Acetone	250	J	2.07		180	ug/L		71	(30%-151%)		
Acetonitrile	1250	U	ND		950	ug/L		76	(36%-141%)		
Benzene	50.0	U	ND		39.2	ug/L		78	(56%-129%)		
Bromodichloromethane	50.0	U	ND		41.8	ug/L		84	(58%-135%)		
Bromoform	50.0	U	ND		51.6	ug/L		103	(56%-138%)		

QC Summary

Workorder: **522864**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2048011											
Bromomethane	50.0	U	ND		62.3	ug/L		125	(30%-135%)	JP1	10/06/20 05:31
Carbon disulfide	250	U	ND		192	ug/L		77	(51%-145%)		
Carbon tetrachloride	50.0	U	ND		41.7	ug/L		83	(53%-143%)		
Chlorobenzene	50.0	U	ND		42.1	ug/L		84	(48%-127%)		
Chloroethane	50.0	U	ND		56.3	ug/L		113	(45%-130%)		
Chloroform	50.0	U	ND		42.6	ug/L		85	(66%-125%)		
Chloromethane	50.0	U	ND		50.1	ug/L		100	(42%-150%)		
Dibromochloromethane	50.0	U	ND		46.9	ug/L		94	(53%-138%)		
Dibromomethane	50.0	U	ND		41.5	ug/L		83	(62%-124%)		
Dichlorodifluoromethane	50.0	U	ND		54.3	ug/L		109	(40%-142%)		
Ethylbenzene	50.0	U	ND		39.5	ug/L		79	(45%-132%)		
Iodomethane	250	U	ND		215	ug/L		86	(57%-135%)		
Methylene chloride	50.0	U	ND		38.2	ug/L		76	(60%-127%)		
Styrene	50.0	U	ND		42.1	ug/L		84	(39%-137%)		
Tetrachloroethylene	50.0	U	ND		44.5	ug/L		89	(51%-138%)		

QC Summary

Workorder: **522864**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2048011											
Toluene	50.0	U	ND		38.8	ug/L		78	(56%-132%)	JP1	10/06/20 05:31
Trichloroethylene	50.0	U	ND		40.0	ug/L		80	(56%-136%)		
Trichlorofluoromethane	50.0	U	ND		51.4	ug/L		103	(55%-135%)		
Vinyl acetate	250	U	ND		197	ug/L		79	(45%-139%)		
Vinyl chloride	50.0	U	ND		52.4	ug/L		105	(50%-145%)		
Xylenes (total)	150	U	ND		121	ug/L		81	(38%-136%)		
cis-1,3-Dichloropropylene	50.0	U	ND		41.7	ug/L		83	(47%-139%)		
trans-1,2-Dichloroethylene	50.0	U	ND		41.5	ug/L		83	(57%-129%)		
trans-1,3-Dichloropropylene	50.0	U	ND		41.1	ug/L		82	(48%-138%)		
**1,2-Dichloroethane-d4	50.0		47.0		48.7	ug/L		97	(81%-124%)		
**Bromofluorobenzene	50.0		47.0		48.6	ug/L		97	(70%-130%)		
**Toluene-d8	50.0		50.9		51.0	ug/L		102	(81%-120%)		
QC1204660176 522934002 PSD											
1,1,1,2-Tetrachloroethane	50.0	U	ND		44.2	ug/L	2	88	(0%-20%)		10/06/20 05:56
1,1,1-Trichloroethane	50.0	U	ND		42.1	ug/L	3	84	(0%-20%)		
1,1,2,2-Tetrachloroethane	50.0	U	ND		43.2	ug/L	0	86	(0%-20%)		

QC Summary

Workorder: **522864**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2048011											
1,1,2-Trichloroethane	50.0	U	ND		43.4	ug/L	1	87	(0%-20%)	JP1	10/06/20 05:56
1,1-Dichloroethane	50.0	U	ND		42.6	ug/L	4	85	(0%-20%)		
1,1-Dichloroethylene	50.0	U	ND		42.9	ug/L	3	86	(0%-20%)		
1,2,3-Trichloropropane	50.0	U	ND		42.2	ug/L	2	84	(0%-20%)		
1,2,4-Trichlorobenzene	50.0	U	ND		42.3	ug/L	0	85	(0%-20%)		
1,2-Dibromo-3-chloropropane	50.0	U	ND		45.9	ug/L	1	92	(0%-20%)		
1,2-Dibromoethane	50.0	U	ND		44.1	ug/L	1	88	(0%-20%)		
1,2-Dichloroethane	50.0	U	ND		37.5	ug/L	1	75	(0%-20%)		
1,2-Dichloropropane	50.0	U	ND		43.7	ug/L	3	87	(0%-20%)		
2-Butanone	250	U	ND		194	ug/L	1	78	(0%-20%)		
2-Hexanone	250	U	ND		200	ug/L	0	80	(0%-20%)		
4-Methyl-2-pentanone	250	U	ND		200	ug/L	0	80	(0%-20%)		
Acetone	250	J	2.07		180	ug/L	0	71	(0%-20%)		
Acetonitrile	1250	U	ND		924	ug/L	3	74	(0%-20%)		
Benzene	50.0	U	ND		40.6	ug/L	3	81	(0%-20%)		

QC Summary

Workorder: **522864**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2048011											
Bromodichloromethane	50.0	U	ND		42.5	ug/L	2	85	(0%-20%)	JP1	10/06/20 05:56
Bromoform	50.0	U	ND		51.7	ug/L	0	103	(0%-20%)		
Bromomethane	50.0	U	ND		52.9	ug/L	16	106	(0%-20%)		
Carbon disulfide	250	U	ND		200	ug/L	4	80	(0%-20%)		
Carbon tetrachloride	50.0	U	ND		42.9	ug/L	3	86	(0%-20%)		
Chlorobenzene	50.0	U	ND		42.8	ug/L	2	86	(0%-20%)		
Chloroethane	50.0	U	ND		46.9	ug/L	18	94	(0%-20%)		
Chloroform	50.0	U	ND		43.7	ug/L	3	87	(0%-20%)		
Chloromethane	50.0	U	ND		43.2	ug/L	15	86	(0%-20%)		
Dibromochloromethane	50.0	U	ND		47.7	ug/L	2	95	(0%-20%)		
Dibromomethane	50.0	U	ND		41.6	ug/L	0	83	(0%-20%)		
Dichlorodifluoromethane	50.0	U	ND		42.5	ug/L	24*	85	(0%-20%)		
Ethylbenzene	50.0	U	ND		40.7	ug/L	3	81	(0%-20%)		
Iodomethane	250	U	ND		223	ug/L	4	89	(0%-20%)		
Methylene chloride	50.0	U	ND		39.1	ug/L	2	78	(0%-20%)		

QC Summary

Workorder: **522864**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2048011											
Styrene	50.0	U	ND		43.0	ug/L	2	86	(0%-20%)	JP1	10/06/20 05:56
Tetrachloroethylene	50.0	U	ND		46.0	ug/L	3	92	(0%-20%)		
Toluene	50.0	U	ND		40.2	ug/L	3	80	(0%-20%)		
Trichloroethylene	50.0	U	ND		41.4	ug/L	4	83	(0%-20%)		
Trichlorofluoromethane	50.0	U	ND		40.4	ug/L	24*	81	(0%-20%)		
Vinyl acetate	250	U	ND		153	ug/L	25*	61	(0%-20%)		
Vinyl chloride	50.0	U	ND		44.6	ug/L	16	89	(0%-20%)		
Xylenes (total)	150	U	ND		124	ug/L	2	83	(0%-20%)		
cis-1,3-Dichloropropylene	50.0	U	ND		42.6	ug/L	2	85	(0%-20%)		
trans-1,2-Dichloroethylene	50.0	U	ND		43.0	ug/L	4	86	(0%-20%)		
trans-1,3-Dichloropropylene	50.0	U	ND		41.3	ug/L	0	83	(0%-20%)		
**1,2-Dichloroethane-d4	50.0		47.0		48.7	ug/L		97	(81%-124%)		
**Bromofluorobenzene	50.0		47.0		48.4	ug/L		97	(70%-130%)		
**Toluene-d8	50.0		50.9		50.7	ug/L		101	(81%-120%)		

Notes:

The Qualifiers in this report are defined as follows:

QC Summary

Workorder: 522864

Parmname	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

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

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.

QC Summary

Report Date: October 7, 2020

Westinghouse Electric Company, LLC
PO Drawer R
Columbia, South Carolina

Contact: **Ms. Cynthia Teague**

Workorder: **522864**

Parmname			NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography														
Batch 2046865														
QC1204657513	522863018	DUP												
Fluoride				J	1.09		1.28	mg/kg	16 ^		(+/-1.16)	LXA2	10/02/20	05:55
QC1204657511	LCS													
Fluoride			23.3				22.9	mg/kg		98.4	(90%-110%)		10/02/20	03:40
QC1204657510	MB													
Fluoride						U	0.000	mg/kg					10/02/20	13:41
QC1204657515	522863018	MS												
Fluoride			27.5	J	1.09		8.62	mg/kg		27.4*	(75%-125%)		10/02/20	06:22
Batch 2046867														
QC1204657518	522864008	DUP												
Fluoride				J	0.505	J	0.517	mg/kg	2.25 ^		(+/-1.17)	LXA2	10/03/20	03:27
QC1204657519	522864009	DUP												
Fluoride				U	0.320	U	0.218	mg/kg	N/A				10/03/20	04:51
QC1204657517	LCS													
Fluoride			25.2				24.7	mg/kg		97.9	(90%-110%)		10/03/20	02:31
QC1204657516	MB													
Fluoride						U	0.000	mg/kg					10/03/20	02:03
QC1204657520	522864008	MS												
Fluoride			28.9	J	0.505		10.4	mg/kg		34.3*	(75%-125%)		10/03/20	03:55
QC1204657521	522864009	MS												
Fluoride			27.2	U	0.320		8.53	mg/kg		30.2*	(75%-125%)		10/03/20	05:19

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Alpha Spec										
Batch 2046419										
QC1204656564 522864001 DUP										
Uranium-233/234		1.68		1.15	pCi/g	37		(0% - 100%)	MP2	10/05/20 16:12
Uranium-235/236	U	0.145	U	0.000	pCi/g	N/A		N/A		
Uranium-238		0.716		0.498	pCi/g	36		(0% - 100%)		
QC1204656565 LCS										
Uranium-233/234				11.3	pCi/g					10/05/20 16:14
Uranium-235/236				0.416	pCi/g					
Uranium-238	12.3			12.1	pCi/g		98.6	(75%-125%)		
QC1204656563 MB										
Uranium-233/234			U	-0.0454	pCi/g					10/05/20 16:12
Uranium-235/236			U	0.0297	pCi/g					
Uranium-238			U	0.0557	pCi/g					
Batch 2046422										
QC1204656572 522864021 DUP										
Uranium-233/234		2.58		2.10	pCi/g	20.7*		(0%-20%)	MG1	10/05/20 16:08
Uranium-235/236		0.150	U	0.103	pCi/g	58.9		N/A		
Uranium-238		1.57		1.91	pCi/g	20.1*		(0%-20%)		
QC1204656573 LCS										
Uranium-233/234				11.6	pCi/g					10/05/20 16:08
Uranium-235/236				0.599	pCi/g					

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Alpha Spec										
Batch 2046422										
Uranium-238	12.9			12.5	pCi/g		96.4	(75%-125%)	MG1	10/05/20 16:08
QC1204656571 MB										
Uranium-233/234			U	0.0579	pCi/g					10/05/20 16:08
Uranium-235/236			U	0.191	pCi/g					
Uranium-238			U	0.102	pCi/g					
Rad Liquid Scintillation										
Batch 2046354										
QC1204656381 522864001 DUP										
Technetium-99		U 0.0190	U	0.120	pCi/g	N/A		N/A	JJ3	10/07/20 10:07
QC1204656382 LCS										
Technetium-99	28.8			30.6	pCi/g		106	(75%-125%)		10/07/20 10:40
QC1204656380 MB										
Technetium-99			U	0.134	pCi/g					10/07/20 09:35
Batch 2047076										
QC1204658045 522862008 DUP										
Technetium-99		U -0.387	U	-0.207	pCi/g	N/A		N/A	JJ3	10/06/20 22:52
QC1204658046 LCS										
Technetium-99	30.4			27.8	pCi/g		91.4	(75%-125%)		10/07/20 00:54
QC1204658044 MB										
Technetium-99			U	-0.0512	pCi/g					10/06/20 20:47

Notes:

The Qualifiers in this report are defined as follows:

** Analyte is a Tracer compound

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

<	Result is less than value reported
>	Result is greater than value reported
B	The target analyte was detected in the associated blank.
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

QC Summary

Workorder: **522864**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

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 #: 522864

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: 2047333

Preparation Method: SW846 5035
Preparation Procedure: GL-OA-E-039 REV# 13
Preparation Batch: 2047332

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

GEL Sample ID#	Client Sample Identification
522864003	C-34-3
522864008	C-38-3
522864013	S-38-3
522864016	C-47-5
1204658514	Method Blank (MB)
1204658515	Method Blank (MB)
1204658518	Laboratory Control Sample (LCS)
1204658519	Laboratory Control Sample (LCS)
1204658521	522197001(NonSDG) Post Spike (PS)
1204658522	522197001(NonSDG) Post Spike Duplicate (PSD)

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

Laboratory Control Sample (LCS) Recovery
The LCS/and or LCSD (See Below) recovery was not within the acceptance limits for all analytes. The unacceptable analyte was not detected in the samples associated with the laboratory control sample. Therefore, the data were reported.

Sample	Analyte	Value
1204658519 (LCS)	Bromomethane	133* (66%-132%)

Matrix Spike/Matrix Spike Duplicate Recovery Statement
The spike and/or spike duplicate (See Below) recoveries were not all within the acceptance limits. The recoveries were similar. It is believed possible matrix interference has been demonstrated.

Sample	Analyte	Value
1204658521 (Non SDG 522197001PS)	Trichlorofluoromethane	150* (55%-135%)
1204658522 (Non SDG 522197001PSD)	Trichlorofluoromethane	147* (55%-135%)

Relative Percent Difference (RPD) Statement
The RPD between the matrix spike pair (See Below) were not all within the acceptance limits. The unacceptable RPD may be attributed to matrix interference and/or sample non-homogeneity.

Sample	Analyte	Value
1204658521PS and 1204658522PSD (Non SDG 522197001)	Bromomethane	RPD 67* (0%-20%)

Technical Information

Sample Dilutions/Methanol Dilutions
Samples were analyzed using a methanol dilution extraction procedure because the sample matrices were not amenable to more concentrated analyses.

Product: **Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer**
Analytical Method: SW846 8260D
Analytical Procedure: GL-OA-E-038 REV# 28
Analytical Batch: 2048011

Preparation Method: SW846 5035
Preparation Procedure: GL-OA-E-039 REV# 13
Preparation Batch: 2048010

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

GEL Sample ID#	Client Sample Identification
522864022	C-8-3
1204660169	Method Blank (MB)
1204660173	Laboratory Control Sample (LCS)
1204660175	522934002(NonSDG) Post Spike (PS)
1204660176	522934002(NonSDG) Post Spike Duplicate (PSD)

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

Continuing Calibration Verification Requirements
All Calibration Verification Standards (CCV) did not meet the acceptance criteria as outlined in Method 8260D for samples and the associated QC . However, the method allows for a designated number of outliers dependent on the requested analyte list. This SDG satisfied the 8260D outlier acceptance criteria. The results are reported.

Quality Control (QC) Information

Laboratory Control Sample (LCS) Recovery
The LCS/and or LCSD (See Below) recovery was not within the acceptance limits for all analytes. The unacceptable analyte was not detected in the samples associated with the laboratory control sample. Therefore, the data were reported.

Sample	Analyte	Value
1204660173 (LCS)	Bromomethane	133* (66%-132%)

Relative Percent Difference (RPD) Statement
The RPD between the matrix spike pair (See Below) were not all within the acceptance limits. However, the spike recoveries passed. The unacceptable RPD may be attributed to matrix interference and/or sample non-homogeneity.

Sample	Analyte	Value
1204660175PS and 1204660176PSD (Non SDG 522934002)	Dichlorodifluoromethane, Trichlorofluoromethane	RPD 24* (0%-20%)
	Vinyl acetate	RPD 25* (0%-20%)

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3050B/6020B
Analytical Procedure: GL-MA-E-014 REV# 34
Analytical Batch: 2046325

Preparation Method: SW846 3050B
Preparation Procedure: GL-MA-E-009 REV# 29
Preparation Batch: 2046324

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

GEL Sample ID#	Client Sample Identification
522864001	C-34-1
522864011	S-38-1
522864020	C-8-1
1204656334	Method Blank (MB)**ICP-MS**
1204656335	Laboratory Control Sample (LCS)
1204656339	Laboratory Control Sample (LCS)
1204656338	522862006(C-22-6L) Serial Dilution (SD)
1204656336	522862006(C-22-6S) Matrix Spike (MS)
1204656340	522862006(C-22-6S) Matrix Spike (MS)
1204656337	522862006(C-22-6SD) Matrix Spike Duplicate (MSD)
1204656341	522862006(C-22-6SD) Matrix Spike Duplicate (MSD)

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.

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	522864		
	001	011	020
Uranium-234	2X	2X	2X
Uranium-235	2X	2X	2X
Uranium-238	2X	2X	2X

General Chemistry

Product: **Ion Chromatography**
Analytical Method: SW846 9056A
Analytical Procedure: GL-GC-E-086 REV# 28
Analytical Batches: 2046865 and 2046854

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

GEL Sample ID#	Client Sample Identification
522864001	C-34-1
522864002	C-34-2
522864003	C-34-3
522864004	C-34-4
522864005	C-34-5
522864006	C-38-1
522864007	C-38-2
1204657510	Method Blank (MB)

1204657511	Laboratory Control Sample (LCS)
1204657513	522863018(C-17-3) Sample Duplicate (DUP)
1204657515	522863018(C-17-3) 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	1204657515 (C-17-3MS)	27.4* (75%-125%)

Product: **Ion Chromatography**
Analytical Method: SW846 9056A
Analytical Procedure: GL-GC-E-086 REV# 28
Analytical Batches: 2046867 and 2046866

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

GEL Sample ID#	Client Sample Identification
522864008	C-38-3
522864009	C-38-4
522864010	C-38-5
522864011	S-38-1
522864012	S-38-2
522864013	S-38-3
522864014	S-38-4
522864015	S-38-5
522864016	C-47-5
522864017	C-47-6
522864018	C-47-7
522864019	C-47-8
522864020	C-8-1
522864021	C-8-2
522864022	C-8-3
522864023	C-8-4
522864024	C-8-5
1204657516	Method Blank (MB)
1204657517	Laboratory Control Sample (LCS)
1204657518	522864008(C-38-3) Sample Duplicate (DUP)
1204657519	522864009(C-38-4) Sample Duplicate (DUP)

1204657520	522864008(C-38-3) Matrix Spike (MS)
1204657521	522864009(C-38-4) 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	1204657520 (C-38-3MS)	34.3* (75%-125%)
	1204657521 (C-38-4MS)	30.2* (75%-125%)

Radiochemistry

Product: **Alphaspec U, Soil/Veg/Solid**
Analytical Method: DOE EML HASL-300, U-02-RC Modified
Analytical Procedure: GL-RAD-A-011 REV# 28
Analytical Batch: 2046419

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2046330

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

GEL Sample ID#	Client Sample Identification
522864001	C-34-1
522864002	C-34-2
522864003	C-34-3
522864004	C-34-4
522864005	C-34-5
522864006	C-38-1
522864007	C-38-2
522864008	C-38-3
522864009	C-38-4
522864010	C-38-5
522864011	S-38-1
522864012	S-38-2
522864013	S-38-3

522864014	S-38-4
522864015	S-38-5
522864016	C-47-5
522864017	C-47-6
522864018	C-47-7
522864019	C-47-8
522864020	C-8-1
1204656563	Method Blank (MB)
1204656564	522864001(C-34-1) Sample Duplicate (DUP)
1204656565	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: **Alphaspec U, Soil/Veg/Solid**
Analytical Method: DOE EML HASL-300, U-02-RC Modified
Analytical Procedure: GL-RAD-A-011 REV# 28
Analytical Batch: 2046422

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2046331

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

GEL Sample ID#	Client Sample Identification
522864021	C-8-2
522864022	C-8-3
522864023	C-8-4
522864024	C-8-5
1204656571	Method Blank (MB)
1204656572	522864021(C-8-2) Sample Duplicate (DUP)
1204656573	Laboratory Control Sample (LCS)

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

Duplication Criteria between QC Sample and Duplicate Sample

The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1204656572 (C-8-2DUP)	Uranium-233/234	RPD 20.7* (0.00%-20.00%) RER 0.966 (0-3)
	Uranium-238	RPD 20.1* (0.00%-20.00%) RER 0.84 (0-3)

Product: **Dry Weight**
Preparation Method: ASTM D 2216 (Modified)
Preparation Procedure: GL-OA-E-020 REV# 13
Preparation Batch: 2046330

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2046330

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

GEL Sample ID#	Client Sample Identification
522864001	C-34-1
522864002	C-34-2
522864003	C-34-3
522864004	C-34-4
522864005	C-34-5
522864006	C-38-1
522864007	C-38-2
522864008	C-38-3
522864009	C-38-4
522864010	C-38-5
522864011	S-38-1
522864012	S-38-2
522864013	S-38-3
522864014	S-38-4
522864015	S-38-5
522864016	C-47-5
522864017	C-47-6
522864018	C-47-7
522864019	C-47-8
522864020	C-8-1
1204656348	522864001(C-34-1) 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: **Dry Weight**
Preparation Method: ASTM D 2216 (Modified)
Preparation Procedure: GL-OA-E-020 REV# 13
Preparation Batch: 2046331

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2046331

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

GEL Sample ID#	Client Sample Identification
522864021	C-8-2
522864022	C-8-3
522864023	C-8-4
522864024	C-8-5
1204656349	522864021(C-8-2) 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: 2046354

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

GEL Sample ID#	Client Sample Identification
522864001	C-34-1
522864002	C-34-2
522864003	C-34-3
522864004	C-34-4
522864005	C-34-5
522864006	C-38-1
522864007	C-38-2
522864008	C-38-3
522864009	C-38-4

522864010	C-38-5
522864011	S-38-1
522864012	S-38-2
522864013	S-38-3
522864014	S-38-4
522864015	S-38-5
522864016	C-47-5
522864017	C-47-6
522864018	C-47-7
522864019	C-47-8
522864020	C-8-1
1204656380	Method Blank (MB)
1204656381	522864001(C-34-1) Sample Duplicate (DUP)
1204656382	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.

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: 2047076

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

GEL Sample ID#	Client Sample Identification
522864021	C-8-2
522864022	C-8-3
522864023	C-8-4
522864024	C-8-5
1204658044	Method Blank (MB)
1204658045	522862008(C-22-8) Sample Duplicate (DUP)
1204658046	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.

Page: 5 of 8
Project # Sealand Soil Sampling
GEL Quote #: WNUC009
COC Number [1]:
PO # 4500778461, Line 1

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

522864
GEL Work Order Number:
GEL Project Manager:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Westinghouse
Phone # 803.647.3171
Project/Site Name:
Fax # 803.695.3964
Address: 5801 Bluff Road, Hopkins, SC 29061
Collected By: Randy Crews [signature]
Send Results To: Teaguecj@westinghouse.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

<-- Preservative Type (6)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info)	(7) Known or possible Hazards	Total number of containers	Isotopic Uranium by Alpha Spec	Isotopic Uranium by ICPMS	Tc-99	Fluoride	VOCs	Comments Note: extra sample is required for sample specific QC
C-34-1	9/26/2020	0810	G		SO			1	X	X	X	X		
C-34-2	9/26/2020	0815	G		SO			1	X		X	X		
C-34-3	9/26/2020	0820	G		SO			2	X		X	X	X	
C-34-4	9/26/2020	0827	G		SO			1	X		X	X		
C-34-5	9/26/2020	0833	G		SO			1	X		X	X		
C-38-1	9/26/2020	0716	G		SO			1	X		X	X		
C-38-2	9/26/2020	0723	G		SO			1	X		X	X		
C-38-3	9/26/2020	0729	G		SO			2	X		X	X	X	
C-38-4	9/26/2020	0737	G		SO			1	X		X	X		
C-38-5	9/26/2020	0743	G		SO			1	X		X	X		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Randy Crews [signature]	09/30/2020	1002	1 Secure Location	09/30/2020	1002
2 Secure Location	09/30/2020	1105	2 [signature]	9.30.20	1105
3 [signature]	9.30.20	1530	[signature]	9/30/20	1530

TAT Requested: Normal: ____ Rush: X Specify: 5 days (1 week)

Fax Results: [ ] Yes [x] 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:*** 2 °C

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

Sample Collection Time Zone: [ ] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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**=Fecal, **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**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
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 concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 6 of 7

Project # Sealand Soil Sampling

GEL Quote #: WNUC009

COC Number (1):

PO # 4500778461, Line 1

GEL Laboratories LLC

gel.com

Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager:*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Westinghouse Phone # 803.647.3171

Project/Site Name: Fax # 803.695.3964

Address: 5801 Bluff Road, Hopkins, SC 29061

Collected By: Randy Crews RCrews Send Results To: Teaguecj@westinghouse.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Isotopic Uranium by Alpha Spec	Isotopic Uranium by ICPMS	Tc-99	Fluoride	VOCs	<-- Preservative Type (6)	Comments
S-38-1	9/26/2020	1043	G		SO			1	X	X	X	X			Note: extra sample is required for sample specific QC
S-38-2	9/26/2020	1051	G		SO			1	X		X	X			
S-38-3	9/26/2020	1057	G		SO			2	X		X	X	X		
S-38-4	9/26/2020	1107	G		SO			1	X		X	X			
S-38-5	9/26/2020	1118	G		SO			1	X		X	X			
C-47-5	9/26/2020	0912	G		SO			2	X		X	X	X		
C-47-6	9/26/2020	0920	G		SO			1	X		X	X			
C-47-7	9/26/2020	0926	G		SO			1	X		X	X			
C-47-8	9/26/2020	0931	G		SO			1	X		X	X			

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Randy Crews RCrews	09/30/2020	1002	1 Secure Location	09/30/2020	1002
2 Secure Location	09/30/2020	1105	2 DHP	9-30-20	1105
3 DHP	9-30-20	1520	3 Shyasa Datum	9/30/20	1520

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

TAT Requested: Normal: ____ Rush: X Specify: 5 days (1 week)

Fax Results: [ ] Yes [x] 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:*** 2 °C

Sample Collection Time Zone: [ ] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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.

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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**).

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**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
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 concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 6 of 7
Project # Sealand Soil Sampling
GEL Quote #: WNUC009
COC Number (1):
PO # 4500778461, Line 1

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager:*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Westinghouse Phone # 803.647.3171
Project/Site Name: Fax # 803.695.3964
Address: 5801 Bluff Road, Hopkins, SC 29061
Collected By: Randy Crews RCrews Send Results To: Teaguecj@westinghouse.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Isotopic Uranium by Alpha Spec	Isotopic Uranium by ICPMS	Tc-99	Fluoride	VOCs	<-- Preservative Type (6) / Comments
C-8-1	9/30/2020	0640	G		SO			1	X	X	X	X		Note: extra sample is required for sample specific QC
C-8-2	9/30/2020	0650	G		SO			1	X		X	X		
C-8-3	9/30/2020	0657	G		SO			2	X		X	X	X	
C-8-4	9/30/2020	0711	G		SO			1	X		X	X		
C-8-5	9/30/2020	0725	G		SO			1	X		X	X		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Randy Crews RCrews	09/30/2020	1002	1 Secure Location	09/30/2020	1002
2 Secure Location	09/30/2020	1405	2	9/30/20	1405
3	9-30-20	1530	3 Shipping Datum	9/30/20	1530

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

TAT Requested: Normal: ____ Rush: X Specify: 5 days (1 week)

Fax Results: [ ] Yes [x] 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:*** 2 °C

Sample Collection Time Zone: [ ] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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

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7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
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Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
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 concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page 120 of 122 SDG: 522864

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: WNUC

SDG/AR/COC/Work Order: 522864

Received By: Tye

Date Received: 9/30/20

Carrier and Tracking Number

Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) 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?		✓	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?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	✓		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If C 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?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR3-19 TEMP: 2C Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?	✓			If Yes, are Encores or Soil Kits present for solids? Yes ✓ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			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?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials NRG Date 9/1/20 Page 1 of 1

List of current GEL Certifications as of 07 October 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

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

November 25, 2020

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

Re: Sealand Soil Sampling
Work Order: 527820

Dear Ms. Teague:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on November 18, 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,

Samuel Hogan for
Lindsay Fabra
Project Manager

Purchase Order: PO 4500778461
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 (4500778461)

Client SDG: 527820 GEL Work Order: 527820

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

E Concentration of the target analyte exceeds the instrument calibration range

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 _____

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

Certificate of Analysis

Report Date: November 25, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	Sealand Soil Sampling

Client Sample ID:	C-7-1	Project:	WNUCSealand
Sample ID:	527820001	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	17-NOV-20 11:29		
Receive Date:	18-NOV-20		
Collector:	Client		
Moisture:	10.1%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		6.96	0.382	1.12	mg/kg	10.1	1	JLD1	11/19/20	0130	2064709	1
Metals Analysis-ICP-MS												
SW846 3050B/6020B Isotopic Uranium-234/235/238 "Dry Weight Corrected"												
Uranium-235		22.9	2.17	15.2	ug/kg	97.5	2	PRB	11/20/20	1833	2064769	2
Uranium-238		2690	14.3	43.4	ug/kg	97.5	2					
Uranium-234	U	ND	2.17	10.8	ug/kg	97.5	2	PRB	11/20/20	2017	2064769	3

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	SM1	11/19/20	0920	2064768
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	11/18/20	1954	2064708

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

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

Certificate of Analysis

Report Date: November 25, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	Sealand Soil Sampling

Client Sample ID:	C-7-2	Project:	WNUCSealand
Sample ID:	527820002	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	17-NOV-20 11:37		
Receive Date:	18-NOV-20		
Collector:	Client		
Moisture:	11.9%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		6.45	0.387	1.14	mg/kg	10.0	1	JLD1	11/19/20	0302	2064709	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	11/18/20	1954	2064708

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: November 25, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-7-3
Sample ID: 527820003
Matrix: Soil
Collect Date: 17-NOV-20 11:43
Receive Date: 18-NOV-20
Collector: Client
Moisture: 9.82%

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		9.00	0.375	1.10	mg/kg	9.95	1	JLD1	11/19/20	0333	2064709	1
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000315	0.000946	mg/kg	0.853	1	PXY1	11/21/20	2023	2065977	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	PXY1	11/17/20	1143	2065976
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	11/18/20	1954	2064708

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	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0503 mg/kg	0.0500	106	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0456 mg/kg	0.0500	96	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0453 mg/kg	0.0500	96	(81%-120%)

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: November 25, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-7-4
Sample ID: 527820004
Matrix: Soil
Collect Date: 17-NOV-20 11:57
Receive Date: 18-NOV-20
Collector: Client
Moisture: 10%

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		6.36	0.378	1.11	mg/kg	10.0	1	JLD1	11/19/20	0404	2064709	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	11/18/20	1954	2064708

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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: November 25, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	Sealand Soil Sampling

Client Sample ID:	C-7-5	Project:	WNUCSealand
Sample ID:	527820005	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	17-NOV-20 12:05		
Receive Date:	18-NOV-20		
Collector:	Client		
Moisture:	13.5%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		9.94	0.392	1.15	mg/kg	9.98	1	JLD1	11/19/20	0435	2064709	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	11/18/20	1954	2064708

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: November 25, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	Sealand Soil Sampling

Client Sample ID:	C-10-1	Project:	WNUCSealand
Sample ID:	527820006	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	17-NOV-20 12:14		
Receive Date:	18-NOV-20		
Collector:	Client		
Moisture:	11%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		7.13	0.378	1.11	mg/kg	9.90	1	JLD1	11/19/20	0607	2064709	1
Metals Analysis-ICP-MS												
SW846 3050B/6020B Isotopic Uranium-234/235/238 "Dry Weight Corrected"												
Uranium-235		19.2	2.23	15.6	ug/kg	99.4	2	PRB	11/20/20	1842	2064769	2
Uranium-238		2150	14.7	44.7	ug/kg	99.4	2					
Uranium-234	U	ND	2.23	11.2	ug/kg	99.4	2	PRB	11/20/20	2024	2064769	3

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	SM1	11/19/20	0920	2064768
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	11/18/20	1954	2064708

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID:	C-10-2	Project:	WNUCSealand
Sample ID:	527820007	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	17-NOV-20 12:20		
Receive Date:	18-NOV-20		
Collector:	Client		
Moisture:	9.79%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		8.84	0.377	1.11	mg/kg	10.0	1	JLD1	11/19/20	0638	2064709	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	11/18/20	1954	2064708

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID:	C-10-3	Project:	WNUCSealand
Sample ID:	527820008	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	17-NOV-20 12:26		
Receive Date:	18-NOV-20		
Collector:	Client		
Moisture:	11.4%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		6.42	0.381	1.12	mg/kg	9.93	1	JLD1	11/19/20	0709	2064709	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	11/18/20	1954	2064708

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: November 25, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-10-4
Sample ID: 527820009
Matrix: Soil
Collect Date: 17-NOV-20 12:35
Receive Date: 18-NOV-20
Collector: Client
Moisture: 7.7%

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		8.28	0.371	1.09	mg/kg	10.1	1	JLD1	11/19/20	0740	2064709	1
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000297	0.000892	mg/kg	0.824	1	PXY1	11/21/20	2050	2065977	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	PXY1	11/17/20	1235	2065976
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	11/18/20	1954	2064708

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	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0491 mg/kg	0.0500	110	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0427 mg/kg	0.0500	96	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0423 mg/kg	0.0500	95	(81%-120%)

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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Report Date: November 25, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-11-5
Sample ID: 527820010
Matrix: Soil
Collect Date: 17-NOV-20 12:43
Receive Date: 18-NOV-20
Collector: Client
Moisture: 10%

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		8.04	0.379	1.11	mg/kg	10.0	1	JLD1	11/19/20	0811	2064709	1
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000274	0.000822	mg/kg	0.740	1	PXY1	11/21/20	2117	2065977	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	PXY1	11/17/20	1243	2065976
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	11/18/20	1954	2064708

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	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0431 mg/kg	0.0500	105	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0392 mg/kg	0.0500	95	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0403 mg/kg	0.0500	98	(81%-120%)

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: November 25, 2020

Company :	Westinghouse Electric Company, LLC
Address :	PO Drawer R
	Columbia, South Carolina 29205
Contact:	Ms. Cynthia Teague
Project:	Sealand Soil Sampling

Client Sample ID:	C-11-6	Project:	WNUCSealand
Sample ID:	527820011	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	17-NOV-20 12:53		
Receive Date:	18-NOV-20		
Collector:	Client		
Moisture:	10.6%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		3.66	0.384	1.13	mg/kg	10.1	1	JLD1	11/19/20	0841	2064709	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	11/18/20	1954	2064708

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: November 25, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID:	C-11-7	Project:	WNUCSealand
Sample ID:	527820012	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	17-NOV-20 12:58		
Receive Date:	18-NOV-20		
Collector:	Client		
Moisture:	8.4%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		4.58	0.370	1.09	mg/kg	9.98	1	JLD1	11/19/20	0912	2064709	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	11/18/20	1954	2064708

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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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Report Date: November 25, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID:	C-11-8	Project:	WNUCSealand
Sample ID:	527820013	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	17-NOV-20 13:05		
Receive Date:	18-NOV-20		
Collector:	Client		
Moisture:	9.89%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride "Dry Weight Corrected"												
Fluoride		10.5	0.380	1.12	mg/kg	10.1	1	JLD1	11/19/20	0943	2064709	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	JLD1	11/18/20	1954	2064708

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

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: November 25, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-7-1
Sample ID: 527820001
Matrix: Soil
Collect Date: 17-NOV-20 11:29
Receive Date: 18-NOV-20
Collector: Client
Moisture: 10.1%

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		1.18	+/-0.356	0.244	0.500	pCi/g			MXS2	11/24/20	0644	2064867	1
Uranium-235/236	U	0.134	+/-0.153	0.191	0.500	pCi/g							
Uranium-238		1.00	+/-0.328	0.220	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.260	+/-0.434	0.790	1.00	pCi/g			JJ3	11/24/20	1056	2064682	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	11/19/20	0802	2064790

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, "Dry Weight Corrected"			107	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			98.5	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: November 25, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-7-2
Sample ID: 527820002
Matrix: Soil
Collect Date: 17-NOV-20 11:37
Receive Date: 18-NOV-20
Collector: Client
Moisture: 11.9%

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		1.64	+/-0.428	0.221	0.500	pCi/g			MXS2	11/24/20	0644	2064867	1
Uranium-235/236	U	0.0271	+/-0.122	0.238	0.500	pCi/g							
Uranium-238		1.53	+/-0.415	0.230	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.302	+/-0.418	0.766	1.00	pCi/g			JJ3	11/24/20	1129	2064682	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	11/19/20	0802	2064790

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, "Dry Weight Corrected"			94.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			99.1	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: November 25, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-7-3
Sample ID: 527820003
Matrix: Soil
Collect Date: 17-NOV-20 11:43
Receive Date: 18-NOV-20
Collector: Client
Moisture: 9.82%

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		0.877	+/-0.399	0.394	0.500	pCi/g			MXS2	11/24/20	0644	2064867	1
Uranium-235/236	U	0.208	+/-0.224	0.255	0.500	pCi/g							
Uranium-238		1.41	+/-0.470	0.312	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.465	+/-0.441	0.822	1.00	pCi/g			JJ3	11/24/20	1201	2064682	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	11/19/20	0802	2064790

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, "Dry Weight Corrected"			86.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94.6	(15%-125%)

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

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: November 25, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-7-4
Sample ID: 527820004
Matrix: Soil
Collect Date: 17-NOV-20 11:57
Receive Date: 18-NOV-20
Collector: Client
Moisture: 10%

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		3.58	+/-0.759	0.344	0.500	pCi/g			MXS2	11/24/20	0644	2064867	1
Uranium-235/236	U	0.0139	+/-0.145	0.302	0.500	pCi/g							
Uranium-238		2.45	+/-0.630	0.323	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.433	+/-0.431	0.802	1.00	pCi/g			JJ3	11/24/20	1234	2064682	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	11/19/20	0802	2064790

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, "Dry Weight Corrected"			82.9	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92.8	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: November 25, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-7-5
Sample ID: 527820005
Matrix: Soil
Collect Date: 17-NOV-20 12:05
Receive Date: 18-NOV-20
Collector: Client
Moisture: 13.5%

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		2.07	+/-0.530	0.307	0.500	pCi/g			MXS2	11/24/20	0644	2064867	1
Uranium-235/236	U	0.215	+/-0.214	0.248	0.500	pCi/g							
Uranium-238		1.84	+/-0.492	0.231	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0731	+/-0.466	0.829	1.00	pCi/g			JJ3	11/24/20	1306	2064682	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	11/19/20	0802	2064790

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, "Dry Weight Corrected"			88.2	(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
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: November 25, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-10-1
Sample ID: 527820006
Matrix: Soil
Collect Date: 17-NOV-20 12:14
Receive Date: 18-NOV-20
Collector: Client
Moisture: 11%

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		1.43	+/-0.440	0.273	0.500	pCi/g			MXS2	11/24/20	0644	2064867	1
Uranium-235/236	U	0.152	+/-0.179	0.193	0.500	pCi/g							
Uranium-238		1.45	+/-0.435	0.181	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.163	+/-0.460	0.825	1.00	pCi/g			JJ3	11/24/20	1339	2064682	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	11/19/20	0802	2064790

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, "Dry Weight Corrected"			77	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			91.2	(15%-125%)

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

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: November 25, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-10-2
Sample ID: 527820007
Matrix: Soil
Collect Date: 17-NOV-20 12:20
Receive Date: 18-NOV-20
Collector: Client
Moisture: 9.79%

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		1.43	+/-0.370	0.223	0.500	pCi/g			MXS2	11/24/20	0644	2064867	1
Uranium-235/236	U	0.0931	+/-0.127	0.173	0.500	pCi/g							
Uranium-238		1.17	+/-0.332	0.185	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.351	+/-0.412	0.760	1.00	pCi/g			JJ3	11/24/20	1411	2064682	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	11/19/20	0802	2064790

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, "Dry Weight Corrected"			108	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			96.9	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: November 25, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-10-3
Sample ID: 527820008
Matrix: Soil
Collect Date: 17-NOV-20 12:26
Receive Date: 18-NOV-20
Collector: Client
Moisture: 11.4%

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		1.37	+/-0.430	0.271	0.500	pCi/g			MXS2	11/24/20	0644	2064867	1
Uranium-235/236	U	0.0207	+/-0.115	0.220	0.500	pCi/g							
Uranium-238		1.43	+/-0.434	0.238	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.230	+/-0.439	0.796	1.00	pCi/g			JJ3	11/24/20	1444	2064682	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	11/19/20	0802	2064790

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, "Dry Weight Corrected"			82.2	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.6	(15%-125%)

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

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: November 25, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-10-4
Sample ID: 527820009
Matrix: Soil
Collect Date: 17-NOV-20 12:35
Receive Date: 18-NOV-20
Collector: Client
Moisture: 7.7%

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		1.58	+/-0.478	0.374	0.500	pCi/g			MXS2	11/24/20	0644	2064867	1
Uranium-235/236	U	0.101	+/-0.161	0.223	0.500	pCi/g							
Uranium-238		1.52	+/-0.448	0.228	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.356	+/-0.437	0.805	1.00	pCi/g			JJ3	11/24/20	1516	2064682	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	11/19/20	0802	2064790

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, "Dry Weight Corrected"			94.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.2	(15%-125%)

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

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: November 25, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-11-5
Sample ID: 527820010
Matrix: Soil
Collect Date: 17-NOV-20 12:43
Receive Date: 18-NOV-20
Collector: Client
Moisture: 10%

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		1.58	+/-0.424	0.246	0.500	pCi/g			MXS2	11/24/20	0644	2064867	1
Uranium-235/236	U	0.0791	+/-0.156	0.264	0.500	pCi/g							
Uranium-238		1.29	+/-0.380	0.194	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.462	+/-0.408	0.763	1.00	pCi/g			JJ3	11/24/20	1549	2064682	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	11/19/20	0802	2064790

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, "Dry Weight Corrected"			92.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92.9	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: November 25, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-11-6
Sample ID: 527820011
Matrix: Soil
Collect Date: 17-NOV-20 12:53
Receive Date: 18-NOV-20
Collector: Client
Moisture: 10.6%

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		2.10	+/-0.514	0.287	0.500	pCi/g			MXS2	11/24/20	0644	2064867	1
Uranium-235/236	U	0.0106	+/-0.111	0.231	0.500	pCi/g							
Uranium-238		1.35	+/-0.418	0.282	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.483	+/-0.398	0.749	1.00	pCi/g			JJ3	11/24/20	1621	2064682	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	11/19/20	0802	2064790

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, "Dry Weight Corrected"			89.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.2	(15%-125%)

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

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: November 25, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-11-7
Sample ID: 527820012
Matrix: Soil
Collect Date: 17-NOV-20 12:58
Receive Date: 18-NOV-20
Collector: Client
Moisture: 8.4%

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		1.62	+/-0.451	0.268	0.500	pCi/g			MXS2	11/24/20	0644	2064867	1
Uranium-235/236	U	0.0661	+/-0.130	0.180	0.500	pCi/g							
Uranium-238		1.82	+/-0.465	0.146	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.230	+/-0.474	0.857	1.00	pCi/g			JJ3	11/24/20	1654	2064682	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	11/19/20	0802	2064790

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, "Dry Weight Corrected"			85.9	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			88.6	(15%-125%)

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

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: November 25, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-11-8
Sample ID: 527820013
Matrix: Soil
Collect Date: 17-NOV-20 13:05
Receive Date: 18-NOV-20
Collector: Client
Moisture: 9.89%

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		1.97	+/-0.508	0.255	0.500	pCi/g			MXS2	11/24/20	0644	2064867	1
Uranium-235/236	U	0.0400	+/-0.112	0.120	0.500	pCi/g							
Uranium-238		1.83	+/-0.493	0.280	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.312	+/-0.424	0.776	1.00	pCi/g			JJ3	11/24/20	1726	2064682	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	11/19/20	0802	2064790

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, "Dry Weight Corrected"			95.4	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			97.2	(15%-125%)

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

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

QC Summary

Report Date: November 25, 2020

Westinghouse Electric Company, LLC
PO Drawer R
Columbia, South Carolina

Contact: **Ms. Cynthia Teague**

Workorder: **527820**

Parmname			NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2064709												
QC1204698625	527820001	DUP										
Fluoride				6.96		7.09	mg/kg	1.83		(0%-109%)	JLD1	11/19/20 02:01
QC1204698626	527824021	DUP										
Fluoride				39.0		40.3	mg/kg	3.36		(0%-109%)		11/19/20 12:17
QC1204698624	LCS											
Fluoride			25.2			25.1	mg/kg		99.5	(90%-110%)		11/19/20 00:28
QC1204698623	MB											
Fluoride					U	ND	mg/kg					11/18/20 23:57
QC1204698627	527820001	MS										
Fluoride			28.0	6.96		28.5	mg/kg		76.9	(75%-125%)		11/19/20 02:31
QC1204698628	527824021	MS										
Fluoride			32.5	39.0		54.9	mg/kg		48.9*	(75%-125%)		11/19/20 12:48
Metals Analysis - ICPMS												
Batch 2064769												
QC1204698779	LCS											
Uranium-235			33.8			32.9	ug/kg		97.3	(80%-120%)	PRB	11/20/20 18:31
Uranium-238			4660			4610	ug/kg		99	(80%-120%)		
QC1204698783	LCS											
Uranium-234			53.3			54.1	ug/kg		101	(80%-120%)		11/20/20 20:15
QC1204698778	MB											
Uranium-234					U	ND	ug/kg					11/20/20 20:14

QC Summary

Workorder: **527820**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2064769											
Uranium-235				U	ND	ug/kg				PRB	11/20/20 18:30
Uranium-238				U	ND	ug/kg					
QC1204698780 527820001 MS											
Uranium-235	39.0		22.9		80.3	ug/kg		147*	(75%-125%)		11/20/20 18:35
Uranium-238	5370		2690		10300	ug/kg		142*	(75%-125%)		
QC1204698784 527820001 MS											
Uranium-234	57.9	U	ND		59.8	ug/kg		103	(75%-125%)		11/20/20 20:19
QC1204698781 527820001 MSD											
Uranium-235	37.7		22.9		56.5	ug/kg	34.9*	89.1	(0%-20%)		11/20/20 18:37
Uranium-238	5200		2690		7480	ug/kg	32.1*	92.1	(0%-20%)		
QC1204698785 527820001 MSD											
Uranium-234	59.9	U	ND		59.4	ug/kg	0.678	98.9	(0%-20%)		11/20/20 20:20
QC1204700747 527820001 PS											
Uranium-235	0.180		0.106		0.285	ug/L		99.5	(75%-125%)		11/20/20 18:38
Uranium-238	24.8		12.4		37.2	ug/L		99.9	(75%-125%)		
QC1204698782 527820001 SDILT											
Uranium-234		U	ND	U	ND	ug/L	N/A		(0%-20%)		11/20/20 20:22
Uranium-235			0.106	J	0.0204	ug/L	3.32		(0%-20%)		11/20/20 18:40
Uranium-238			12.4		2.56	ug/L	3.1		(0%-20%)		

QC Summary

Workorder: **527820**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2065977										
QC1204701262 LCS										
Tetrachloroethylene	0.0500			0.0457	mg/kg		91	(68%-129%)	PXY1	11/21/20 15:56
**1,2-Dichloroethane-d4	50.0			48.0	ug/L		96	(81%-124%)		
**Bromofluorobenzene	50.0			46.4	ug/L		93	(70%-130%)		
**Toluene-d8	50.0			47.9	ug/L		96	(81%-120%)		
QC1204703198 LCS										
Tetrachloroethylene	0.0500			0.0485	mg/kg		97	(68%-129%)	MXL2	11/24/20 10:56
**1,2-Dichloroethane-d4	50.0			42.5	ug/L		85	(81%-124%)		
**Bromofluorobenzene	50.0			45.7	ug/L		91	(70%-130%)		
**Toluene-d8	50.0			48.4	ug/L		97	(81%-120%)		
QC1204701261 MB										
Tetrachloroethylene			U	ND	mg/kg				PXY1	11/21/20 17:16
**1,2-Dichloroethane-d4	50.0			49.1	ug/L		98	(81%-124%)		
**Bromofluorobenzene	50.0			47.1	ug/L		94	(70%-130%)		
**Toluene-d8	50.0			49.0	ug/L		98	(81%-120%)		
QC1204703197 MB										
Tetrachloroethylene			U	ND	mg/kg				MXL2	11/24/20 12:16
**1,2-Dichloroethane-d4	50.0			42.6	ug/L		85	(81%-124%)		

QC Summary

Workorder: **527820**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS												
Batch 2065977												
**Bromofluorobenzene	50.0				44.4	ug/L		89	(70%-130%)	MXL2	11/24/20	12:16
**Toluene-d8	50.0				48.5	ug/L		97	(81%-120%)			
QC1204701263 527829001 PS												
Tetrachloroethylene	50.0	U	ND		40.1	ug/L		80	(51%-138%)		11/24/20	19:25
**1,2-Dichloroethane-d4	50.0		56.2		41.9	ug/L		84	(81%-124%)			
**Bromofluorobenzene	50.0		47.9		46.0	ug/L		92	(70%-130%)			
**Toluene-d8	50.0		48.1		48.8	ug/L		98	(81%-120%)			
QC1204701264 527829001 PSD												
Tetrachloroethylene	50.0	U	ND		36.4	ug/L	10	73	(0%-20%)		11/24/20	19:52
**1,2-Dichloroethane-d4	50.0		56.2		43.4	ug/L		87	(81%-124%)			
**Bromofluorobenzene	50.0		47.9		45.6	ug/L		91	(70%-130%)			
**Toluene-d8	50.0		48.1		47.6	ug/L		95	(81%-120%)			

Notes:

The Qualifiers in this report are defined as follows:

- ** 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

QC Summary

Workorder: **527820**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

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
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.

QC Summary

Report Date: November 25, 2020

Westinghouse Electric Company, LLC
PO Drawer R
Columbia, South Carolina

Contact: **Ms. Cynthia Teague**

Workorder: **527820**

Parmname			NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2064709												
QC1204698625	527820001	DUP										
Fluoride				6.96		7.09	mg/kg	1.83		(0%-109%)	JLD1	11/19/20 02:01
QC1204698626	527824021	DUP										
Fluoride				39.0		40.3	mg/kg	3.36		(0%-109%)		11/19/20 12:17
QC1204698624	LCS											
Fluoride			25.2			25.1	mg/kg		99.5	(90%-110%)		11/19/20 00:28
QC1204698623	MB											
Fluoride					U	0.000	mg/kg					11/18/20 23:57
QC1204698627	527820001	MS										
Fluoride			28.0	6.96		28.5	mg/kg		76.9	(75%-125%)		11/19/20 02:31
QC1204698628	527824021	MS										
Fluoride			32.5	39.0		54.9	mg/kg		48.9*	(75%-125%)		11/19/20 12:48
Rad Alpha Spec												
Batch 2064867												
QC1204699007	527793001	DUP										
Uranium-233/234				76.4		76.4	pCi/g	0.0746		(0%-20%)	MXS2	11/24/20 06:44
Uranium-235/236				3.38		3.64	pCi/g	7.52		(0%-20%)		
Uranium-238				15.7		16.5	pCi/g	5.15		(0%-20%)		
QC1204699008	LCS											
Uranium-233/234						12.2	pCi/g					11/24/20 06:44
Uranium-235/236						0.430	pCi/g					

QC Summary

Workorder: **527820**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Alpha Spec										
Batch 2064867										
Uranium-238	10.9			11.9	pCi/g		109	(75%-125%)	MXS2	11/24/20 06:44
QC1204699006 MB										
Uranium-233/234			U	-0.0162	pCi/g					11/24/20 13:51
Uranium-235/236			U	-0.0115	pCi/g					
Uranium-238			U	0.0498	pCi/g					
Rad Liquid Scintillation										
Batch 2064682										
QC1204698570 527793001 DUP										
Technetium-99	U	-0.122	U	-0.195	pCi/g	N/A		N/A	JJ3	11/24/20 18:31
QC1204698571 LCS										
Technetium-99	28.4			27.3	pCi/g		96.2	(75%-125%)		11/24/20 19:04
QC1204698569 MB										
Technetium-99			U	-0.428	pCi/g					11/24/20 17:59

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.
- 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.

QC Summary

Workorder: **527820**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

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 #: 527820

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: 2065977

Preparation Method: SW846 5035
Preparation Procedure: GL-OA-E-039 REV# 13
Preparation Batch: 2065976

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

GEL Sample ID#	Client Sample Identification
527820003	C-7-3
527820009	C-10-4
527820010	C-11-5
1204701261	Method Blank (MB)
1204701262	Laboratory Control Sample (LCS)
1204701263	527829001(NonSDG) Post Spike (PS)
1204701264	527829001(NonSDG) Post Spike Duplicate (PSD)
1204703197	Method Blank (MB)
1204703198	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.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3050B/6020B
Analytical Procedure: GL-MA-E-014 REV# 34
Analytical Batch: 2064769

Preparation Method: SW846 3050B
Preparation Procedure: GL-MA-E-009 REV# 29
Preparation Batch: 2064768

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

GEL Sample ID#	Client Sample Identification
527820001	C-7-1
527820006	C-10-1
1204698778	Method Blank (MB)**ICP-MS**
1204698779	Laboratory Control Sample (LCS)
1204698783	Laboratory Control Sample (LCS)
1204698782	527820001(C-7-1L) Serial Dilution (SD)
1204698780	527820001(C-7-1S) Matrix Spike (MS)
1204698784	527820001(C-7-1S) Matrix Spike (MS)
1204698781	527820001(C-7-1SD) Matrix Spike Duplicate (MSD)
1204698785	527820001(C-7-1SD) Matrix Spike Duplicate (MSD)
1204700747	527820001(C-7-1PS) 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
1204698780 (C-7-1MS)	Uranium-235	147* (75%-125%)
	Uranium-238	142* (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
1204698780MS and 1204698781MSD (C-7-1)	Uranium-235	RPD 34.9* (0%-20%)
	Uranium-238	RPD 32.1* (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	527820	
	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: 2064709 and 2064708

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

GEL Sample ID#	Client Sample Identification
527820001	C-7-1
527820002	C-7-2
527820003	C-7-3
527820004	C-7-4
527820005	C-7-5
527820006	C-10-1
527820007	C-10-2
527820008	C-10-3
527820009	C-10-4
527820010	C-11-5
527820011	C-11-6
527820012	C-11-7
527820013	C-11-8
1204698623	Method Blank (MB)
1204698624	Laboratory Control Sample (LCS)
1204698625	527820001(C-7-1) Sample Duplicate (DUP)
1204698626	527824021(NonSDG) Sample Duplicate (DUP)
1204698627	527820001(C-7-1) Matrix Spike (MS)
1204698628	527824021(NonSDG) 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	1204698628 (Non SDG 527824021MS)	48.9* (75%-125%)

Radiochemistry

Product: **Alphaspec U,**
Analytical Method: DOE EML HASL-300, U-02-RC Modified
Analytical Procedure: GL-RAD-A-011 REV# 28
Analytical Batch: 2064867

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2064790

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

GEL Sample ID#	Client Sample Identification
527820001	C-7-1
527820002	C-7-2
527820003	C-7-3
527820004	C-7-4
527820005	C-7-5
527820006	C-10-1
527820007	C-10-2
527820008	C-10-3
527820009	C-10-4
527820010	C-11-5
527820011	C-11-6
527820012	C-11-7
527820013	C-11-8
1204699006	Method Blank (MB)
1204699007	527793001(NonSDG) Sample Duplicate (DUP)
1204699008	Laboratory Control Sample (LCS)

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.

Technical Information

Recounts
Sample 1204699006 (MB) was recounted due to a peak shift. The recount is reported.

Miscellaneous Information

Additional Comments
The tracer peak centroid for sample 527820002 (C-7-2) is greater than 50 keV from the expected library energy value for the tracer; however, the tracer yield requirement was met and the tracer peak is within the tracer region of interest.

Product: **Dry Weight**
Preparation Method: ASTM D 2216 (Modified)
Preparation Procedure: GL-OA-E-020 REV# 13
Preparation Batch: 2064790

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2064790

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

GEL Sample ID#	Client Sample Identification
527820001	C-7-1
527820002	C-7-2
527820003	C-7-3
527820004	C-7-4
527820005	C-7-5
527820006	C-10-1
527820007	C-10-2
527820008	C-10-3
527820009	C-10-4
527820010	C-11-5
527820011	C-11-6
527820012	C-11-7
527820013	C-11-8
1204698843	527820013(C-11-8) 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: 2064682

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

GEL Sample ID#	Client Sample Identification
527820001	C-7-1
527820002	C-7-2
527820003	C-7-3
527820004	C-7-4
527820005	C-7-5
527820006	C-10-1
527820007	C-10-2
527820008	C-10-3
527820009	C-10-4
527820010	C-11-5
527820011	C-11-6
527820012	C-11-7
527820013	C-11-8
1204698569	Method Blank (MB)
1204698570	527793001(NonSDG) Sample Duplicate (DUP)
1204698571	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.

Page: 1 of 2
Project # Sealand Soil Sampling Nov. 2020
GEL Quote #: WNUC009
COC Number (1):
PO # 4500778461, Line 1

Page 1 of 2 SDG 527820

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

527820

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager:*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Westinghouse Phone # 803.647.3171

Project/Site Name: Fax # 803.695.3964

Address: 5801 Bluff Road, Hopkins, SC 29061

Collected By: Randy Crews Send Results To: logsdocj@westinghouse.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Isotopic Uranium by Alpha Spec	Isotopic Uranium by ICPMS	Tc-99	Fluoride	tetrachloroethylene	<-- Preservative Type (6)	Comments
C-7-1	11/17/2020	1129	G		SO			1	X	X	X	X			Note: extra sample is required for sample specific QC
C-7-2	11/17/2020	1137	G		SO			1	X		X	X			
C-7-3	11/17/2020	1143	G		SO			1	X		X	X	X		
C-7-4	11/17/2020	1157	G		SO			1	X		X	X			
C-7-5	11/17/2020	1205	G		SO			1	X		X	X			
C-10-1	11/17/2020	1214	G		SO			1	X	X	X	X			
C-10-2	11/17/2020	1220	G		SO			1	X		X	X			
C-10-3	11/17/2020	1226	G		SO			1	X		X	X			
C-10-4	11/17/2020	1235	G		SO			1	X		X	X	X		
C-11-5	11/17/2020	1243	G		SO			1	X		X	X	X		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Randy Crews	11/18/2020	1035	1 Secure Location	11/18/2020	1035
2 Secure Location	11/18/2020	1130	2	11.18.20	1130
3	11/18/20	1530		11/18/20	1530

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

TAT Requested: Normal: ____ Rush: X Specify: 5 days (1 week)

Fax Results: [ ] Yes [x] 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:*** ____ °C

Sample Collection Time Zone: [ ] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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**=Fecal, **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**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
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 concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Project # Sealand Soil Sampling Nov. 2020
GEL Quote #: WNUC009
COC Number [1]:
PO # 4500778461, Line 1

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

GEL Work Order Number: **GEL Project Manager:**

Client Name: Westinghouse Phone # 803.647.3171
Project/Site Name: Fax # 803.695.3964
Address: 5801 Bluff Road, Hopkins, SC 29061
Collected By: Randy Crews [signature] Send Results To: logsdocj@westinghouse.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

<-- Preservative Type (6)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of containers	Isotopic Uranium by Alpha Spec	Isotopic Uranium by ICPMS	Tc-99	Fluoride	tetrachloroethylene						Comments Note: extra sample is required for sample specific QC
C-11-6	11/17/2020	1253	G		SO			1	X		X	X							
C-11-7	11/17/2020	1258	G		SO			1	X		X	X							
C-11-8	11/17/2020	1305	G		SO			1	X		X	X							

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Randy Crews [signature]	11/18/2020	1035	1 Secure Location	11/18/2020	1035
2 Secure Location	11/18/2020	1130	2 [signature]	11-18-20	1130
3 [signature]	11-18-20	1530	3 [signature]	11/18/20	1530

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

TAT Requested: Normal: ____ Rush: X Specify: 5 days (1 week)

Fax Results: [ ] Yes [x] 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 [ ] Central [ ] Mountain [ ] Other:

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**=Fecal, **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**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
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 concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: WNUC	SDG/AR/COC/Work Order: 527820
Received By: AJA	Date Received: 11/18/20
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) 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?		✓	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?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	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?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: 2°-rchem *all temperatures are recorded in Celsius TEMP: 1°-Solids
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR4-16 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?	✓			If Yes, are Encores or Soil Kits present for solids? Yes ✓ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA ✓(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA ✓ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected: SED-6282-12-24 has ID SED-6282-12-18
10	Date & time on COC match date & time on bottles?	✓			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?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials NRG Date 11/19/20 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 25 November 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	SC000122021−1
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	SC000122020−33
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Attachment C

Southern Storage Area Operable Unit Soil Sampling- GEL Analytical Results

Second Sampling Event

C-19	C-69	S-45	S-46

Sampling conducted: November 5, 2020
GEL Work Order: 526711
Report Date: November 16, 2020

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

November 24, 2020

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

Re: Sealand Soil Sampling
Work Order: 526711

Dear Ms. Teague:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on November 06, 2020. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. Rev01: This report is revised to correct the Sample IDs for 526711005-009.

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

Lindsay Fabra
Project Manager

Purchase Order: PO 4500778461
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: 526711 GEL Work Order: 526711

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

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

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

Certificate of Analysis

Report Date: November 24, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-19-A
Sample ID: 526711001
Matrix: Soil
Collect Date: 05-NOV-20 12:06
Receive Date: 06-NOV-20
Collector: Client

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		1.25	+/-0.454	0.374	0.500	pCi/g			MP2	11/11/20	0854	2060305	1
Uranium-235/236	U	0.160	+/-0.202	0.252	0.500	pCi/g							
Uranium-238		0.710	+/-0.341	0.285	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.169	+/-0.488	0.845	1.00	pCi/g			JJ3	11/15/20	0518	2060604	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	RYH1	11/07/20	1606	2060133

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, "Dry Weight Corrected"			74.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			93.5	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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

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

Certificate of Analysis

Report Date: November 24, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-19-B
Sample ID: 526711002
Matrix: Soil
Collect Date: 05-NOV-20 12:09
Receive Date: 06-NOV-20
Collector: Client

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		1.03	+/-0.423	0.338	0.500	pCi/g			MP2	11/11/20	0854	2060305	1
Uranium-235/236	U	0.000	+/-0.0974	0.145	0.500	pCi/g							
Uranium-238		0.872	+/-0.386	0.303	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.233	+/-0.489	0.841	1.00	pCi/g			JJ3	11/15/20	0551	2060604	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	RYH1	11/07/20	1606	2060133

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, "Dry Weight Corrected"			77.5	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94.5	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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

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

Certificate of Analysis

Report Date: November 24, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-69-A
Sample ID: 526711003
Matrix: Soil
Collect Date: 05-NOV-20 12:25
Receive Date: 06-NOV-20
Collector: Client

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		0.444	+/-0.296	0.341	0.500	pCi/g			MP2	11/11/20	0854	2060305	1
Uranium-235/236	U	0.0807	+/-0.159	0.220	0.500	pCi/g							
Uranium-238		0.503	+/-0.295	0.274	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0911	+/-0.509	0.906	1.00	pCi/g			JJ3	11/15/20	0623	2060604	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	RYH1	11/07/20	1606	2060133

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, "Dry Weight Corrected"			82.7	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			97.5	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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

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

Certificate of Analysis

Report Date: November 24, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: C-69-B
Sample ID: 526711004
Matrix: Soil
Collect Date: 05-NOV-20 12:17
Receive Date: 06-NOV-20
Collector: Client

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		5.99	+/-1.00	0.385	0.500	pCi/g			MP2	11/11/20	0854	2060305	1
Uranium-235/236	U	0.132	+/-0.210	0.291	0.500	pCi/g							
Uranium-238		1.91	+/-0.572	0.280	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.232	+/-0.463	0.795	1.00	pCi/g			JJ3	11/15/20	0656	2060604	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	RYH1	11/07/20	1606	2060133

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, "Dry Weight Corrected"			68.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.2	(15%-125%)

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

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

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

Certificate of Analysis

Report Date: November 24, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: S-45-A
Sample ID: 526711005
Matrix: Soil
Collect Date: 05-NOV-20 12:45
Receive Date: 06-NOV-20
Collector: Client

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234	U	0.429	+/-0.355	0.431	0.500	pCi/g			MP2	11/11/20	0854	2060305	1
Uranium-235/236	U	0.000	+/-0.134	0.199	0.500	pCi/g							
Uranium-238		0.873	+/-0.449	0.328	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.00225	+/-0.486	0.858	1.00	pCi/g			JJ3	11/15/20	0728	2060604	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	RYH1	11/07/20	1606	2060133

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, "Dry Weight Corrected"			50	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94.8	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: November 24, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: S-45-B
Sample ID: 526711006
Matrix: Soil
Collect Date: 05-NOV-20 12:53
Receive Date: 06-NOV-20
Collector: Client

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		0.636	+/-0.355	0.313	0.500	pCi/g			MP2	11/11/20	0851	2060305	1
Uranium-235/236	U	-0.0129	+/-0.112	0.259	0.500	pCi/g							
Uranium-238		0.929	+/-0.412	0.267	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0165	+/-0.493	0.871	1.00	pCi/g			JJ3	11/15/20	0801	2060604	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	RYH1	11/07/20	1606	2060133

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, "Dry Weight Corrected"			77.3	(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
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: November 24, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: S-46-A
Sample ID: 526711007
Matrix: Soil
Collect Date: 05-NOV-20 13:02
Receive Date: 06-NOV-20
Collector: Client

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		0.852	+/-0.357	0.234	0.500	pCi/g			MP2	11/11/20	0851	2060305	1
Uranium-235/236	U	0.0441	+/-0.124	0.132	0.500	pCi/g							
Uranium-238		0.688	+/-0.322	0.218	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.245	+/-0.451	0.773	1.00	pCi/g			JJ3	11/15/20	0833	2060604	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	RYH1	11/07/20	1606	2060133

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, "Dry Weight Corrected"			98.1	(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
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: November 24, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: S-46-B
Sample ID: 526711008
Matrix: Soil
Collect Date: 05-NOV-20 13:05
Receive Date: 06-NOV-20
Collector: Client

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		0.997	+/-0.474	0.428	0.500	pCi/g			MP2	11/11/20	0851	2060305	1
Uranium-235/236	U	0.0604	+/-0.170	0.181	0.500	pCi/g							
Uranium-238		0.879	+/-0.418	0.147	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.0127	+/-0.469	0.827	1.00	pCi/g			JJ3	11/15/20	0906	2060604	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	RYH1	11/07/20	1606	2060133

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, "Dry Weight Corrected"			73.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.7	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: November 24, 2020

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: Sealand Soil Sampling

Client Sample ID: S-46-C
Sample ID: 526711009
Matrix: Soil
Collect Date: 05-NOV-20 13:07
Receive Date: 06-NOV-20
Collector: Client

Project: WNUCSealand
Client ID: WNUC009

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, "Dry Weight Corrected"													
Uranium-233/234		1.34	+/-0.429	0.247	0.500	pCi/g			MP2	11/11/20	0851	2060305	1
Uranium-235/236	U	0.0724	+/-0.142	0.197	0.500	pCi/g							
Uranium-238		0.593	+/-0.294	0.234	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.361	+/-0.491	0.832	1.00	pCi/g			JJ3	11/15/20	0938	2060604	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	RYH1	11/07/20	1606	2060133

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, "Dry Weight Corrected"			103	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94	(15%-125%)

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

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

GEL LABORATORIES LLC
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QC Summary

Report Date: November 24, 2020

Westinghouse Electric Company, LLC
PO Drawer R
Columbia, South Carolina

Contact: **Ms. Cynthia Teague**

Workorder: **526711**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Alpha Spec										
Batch 2060305										
QC1204688878 526711001 DUP										
Uranium-233/234		1.25		1.01	pCi/g	20.8		(0% - 100%)	MP2	11/11/20 08:51
Uranium-235/236	U	0.160	U	0.0349	pCi/g	N/A		N/A		
Uranium-238		0.710		1.59	pCi/g	76.6*		(0%-20%)		
QC1204688879 LCS										
Uranium-233/234				10.4	pCi/g					11/11/20 08:51
Uranium-235/236				0.316	pCi/g					
Uranium-238	12.0			9.83	pCi/g		82.2	(75%-125%)		
QC1204688877 MB										
Uranium-233/234			U	0.00249	pCi/g					11/11/20 08:51
Uranium-235/236			U	0.0498	pCi/g					
Uranium-238			U	0.0612	pCi/g					
Rad Liquid Scintillation										
Batch 2060604										
QC1204689688 526711001 DUP										
Technetium-99	U	0.169	U	0.332	pCi/g	N/A		N/A	JJ3	11/15/20 10:43
QC1204689689 LCS										
Technetium-99	30.2			33.1	pCi/g		110	(75%-125%)		11/15/20 11:16

QC Summary

Workorder: **526711**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation											
Batch 2060604											
QC1204689687 MB											
Technetium-99			U	-0.0408	pCi/g				JJ3	11/15/20	10:11

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
BD	Results are either below the MDC or tracer recovery is low
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	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.
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

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QC Summary

Workorder: **526711**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

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.

Radiochemistry

Product: **Alphaspec U,**
Analytical Method: DOE EML HASL-300, U-02-RC Modified
Analytical Procedure: GL-RAD-A-011 REV# 28
Analytical Batch: 2060305

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2060133

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

GEL Sample ID#	Client Sample Identification
526711001	C-19-A
526711002	C-19-B
526711003	C-69-A
526711004	C-69-B
526711005	S-45-A
526711006	S-45-B
526711007	S-46-A
526711008	S-46-B
526711009	S-46-C
1204688877	Method Blank (MB)
1204688878	526711001(C-19-A) Sample Duplicate (DUP)
1204688879	Laboratory Control Sample (LCS)

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

Duplication Criteria between QC Sample and Duplicate Sample
The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1204688878 (C-19-ADUP)	Uranium-238	RPD 76.6* (0.00%-20.00%) RER 2.68 (0-3)

Product: **Dry Weight**
Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2060133

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

GEL Sample ID#	Client Sample Identification
526711001	C-19-A
526711002	C-19-B
526711003	C-69-A
526711004	C-69-B
526711005	S-45-A
526711006	S-45-B
526711007	S-46-A
526711008	S-46-B
526711009	S-46-C

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: 2060604

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

GEL Sample ID#	Client Sample Identification
526711001	C-19-A
526711002	C-19-B
526711003	C-69-A
526711004	C-69-B
526711005	S-45-A
526711006	S-45-B
526711007	S-46-A
526711008	S-46-B
526711009	S-46-C
1204689687	Method Blank (MB)

1204689688	526711001(C-19-A) Sample Duplicate (DUP)
1204689689	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.

Page 1 of 1 SDG: 526711 Rev1

Page: 1 of 1
Project # Sealand Soil Sampling
GEL Quote #: WNUC009
COC Number (1):
PO Number: 4500778461 Lot 1

526711

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Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics
Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager:*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Westinghouse Phone #803-312-4171
Project/Site Name: Sealand soil excavation confirmatory sampling Fax#
Address: 5801 Bluff Rd Hopkins SC 29061
Collected By: R. Crews R Crews Send Results To: teaguerj@westinghouse.com

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (Please supply isotopic info.)	Should this sample be considered: (7) Known or possible hazards	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test): iso U, α Spec	Sample Analysis Requested (5): Tc-99	<-- Preservative Type (6)	Comments
C-19-A	11-05-20	1206	G		SO			1	X	X		Note: extra sample is required for sample specific QC
C-19-B	11-05-20	1209	G		SO			1	X	X		
C-69-A	11-05-20	1225	G		SO			1	X	X		
C-69-B	11-05-20	1217	G		SO			1	X	X		
S-45-A	11-05-20	1245	G		SO			1	X	X		
S-45-B	11-05-20	1253	G		SO			1	X	X		
S-46-A	11-05-20	1302	G		SO			1	X	X		
S-46-B	11-05-20	1305	G		SO			1	X	X		
S-46-C	11-05-20	1307	G		SO			1	X	X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	R Crews	11/6/20	0828	Secure Location	11/6/20	0838
2	Secure Location	11/6/20	1104		11-6-20	1104
3		11-6-20	1335		11/6/20	1335

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

TAT Requested: Normal: ____ Rush: X Specify: ASAP (Subject to Surcharge)
Fax Results: [ ] Yes [X] 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:*** 2 °C
Sample Collection Time Zone: [ ] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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=Fecal, 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.) *Are there any known or possible hazards associated with these samples?*

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

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 concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Miscellaneous
Pb = Lead RCRA metals

TSCA Regulated
PCB = Polychlorinated biphenyls

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

526711

Client: WNUC	**SDG/AR/COC/Work Order:**
Received By: SLB	**Date Received:** NOV 6, 2020
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier 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?		✓	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?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	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?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1 C
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR1-20 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?	✓			If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			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?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials SH Date 11/9/20 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 24 November 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	SC000122021−1
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	SC000122020−33
Vermont	VT87156
Virginia NELAP	460202
Washington	C780