



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-21-24

March 11, 2021

Subject: **February** 2021 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 submitted on **February 15, 2021**. The following progress report is for work occurring from **February 1- 28, 2021**:

- (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:

- Completed excavation and confirmatory soil sampling under intermodal container C-21 for tetrachloroethylene on February 23, 2021. Additional information is reported in section (b) “Results of sampling and tests” below.
- Completed the following to support the **Phase II RI Work Plan**:
 - Completed installation and development of permanent monitoring well W-106 on the Upper Sunset Lake Dike.
 - Redeveloped permanent monitoring well W-25.
 - Collected groundwater samples from all 14 newly installed wells (W-98-100, W-102-112).
 - Collected the additional Primary Soil Gas Survey Area devices.
 - Initiated investigative activities for groundwater screening borings L-48 through L-58 that were proposed in the January 14th teleconference:
 - Cleared paths to the boring locations.
 - Conducted underground utility survey.
 - Completed collection of lithologic data and groundwater screening at borings L-50, L-51 and L-56 through L-58.
 - Began collecting lithologic data from boring L-49 before drilling operations were postponed because of weather conditions.
 - Submitted RI Phase II Work Plan Addendum “*Sediment Sampling Plan to Bound the Extent of Uranium Around SED-44*” (LTR-RAC-21-20) on February 12, 2021.
 - Continued East Lagoon closure activities.

(b) Results of sampling and tests:

Soil Sampling Underneath C-21 and Remediation

- On September 10, 2020, initial soil sampling was conducted under intermodal container C-21.
 - Systematic and bias soil sampling was conducted in accordance with the approved SSAOU Soil Sampling Work Plan.
 - Additional soil sampling events were conducted on November 5, 2020 and January 26, 2021.
- Results from initial and subsequent soil sampling events indicated that C-21 exceeded the RSL (0.0023 mg/kg) for tetrachloroethylene at locations C-21-A (bias) and C-21-3 (systematic) and at subsequent sampling location C-21a (bias).
- Soil that exceeded the RSL for tetrachloroethylene was excavated, and the affected areas were sampled again (confirmatory sampling).
- Two confirmatory soil sampling events were conducted underneath intermodal container C-21 on February 8, 2021 and February 23, 2021. All confirmatory results were below the RSL for tetrachloroethylene, meaning that the remedial action was complete.
- Analytical results of the soil sampling along with a graphic are included in this monthly report as **Attachments A-B**.

Primary Soil Gas Survey Area

- Results from the additional soil gas screening were received and identify two potential source areas for delineation via soil sampling. The Beacon Environmental Map Report of the Primary Soil Gas Survey Area is included in this monthly report as **Attachment C**.

Groundwater Screening

- Groundwater screening results from borings L-50, L-51 and L-56 through L-58 were received in February 2021. Groundwater from borings L-50 and L-51 was impacted with chlorinated volatile organic compounds (CVOCs) above the maximum contaminant level for tetrachloroethylene. Groundwater screening results from borings L-56 through L-58 indicate that the impacted groundwater does not migrate further to the west towards the property boundary. The groundwater screening analytical results for L-50, L-51 and L-56 through L-58 were tabulated and are included as **Attachment D**.

(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:

- Complete the collection of lithologic data and groundwater screening from borings L-48, L-49 and L-52 through L-55.
- Install pressure transducers in the five monitoring wells around the Gator Pond (W-4, W-15, W-16, W-27 and W-92).
- Install the three additional staff gauges in the Phase II Remedial Investigation Work Plan
- Install pressure transducers and VuLink telemetry systems at each staff gauge location.
- Conduct sediment sampling in Upper Sunset Lake to bound impact at location SED-44 and in one additional sediment transect in Upper Sunset Lake approximately 25 feet west of the Upper Sunset Dike.
- Host a site visit with DHEC on March 11 to observe sediment sampling in Upper Sunset Lake, East Lagoon closure activities, and groundwater screening.
- Survey site installations (monitoring wells, staff gauges, etc) and lithologic borings to support further development of the Conceptual Site Model and the Black Mingo confining clay structure contour map.
- Continue East Lagoon closure activities.

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

- 25% of Phase II Work Scope Completed.
- Currently there are no anticipated delays.

Respectfully,

A handwritten signature in blue ink, appearing to read "Juan P. Joyner". The signature is fluid and cursive, written over a light blue horizontal line.

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 and Drawing

Attachment B: C-21 Sampling Events and Lab Reports

Attachment C: Beacon Environmental Map Report (Soil Gas Surveys)

Attachment D: Tabulated Groundwater Screening Results (L-50, L-51 and L-56 through L-58)

Attachment A

SSAOU Tabulated Soil Sampling Results and Drawing

Tabulated Soil Sampling Results for Intermodal Containers/Sealands **C-21**

Sampling Events:

September 10, 2020

November 5, 2020

January 26, 2021

February 8, 2021

February 23, 2021

Drawing with Soil Sampling Results

Sealand Soil Analysis Tetrachloroethylene Results Compilation

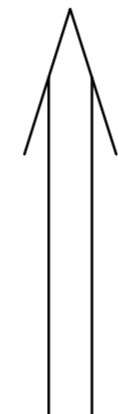
C-21

ID	Date Sampled Lab Report #	< or =	Result (mg/kg)	Notes
C-21-3	9/10/2020 GEL WO 521515	=	0.005040	Systematic excavation required
C-21-6	9/10/2020 GEL WO 521515	=	0.001280	Bias
C-21-A	11/5/2020 GEL WO 526713	=	0.005630	Bias excavation required
C-21-B	11/5/2020 GEL WO 526713	=	0.000827	Bias
C-21-a	1/26/2021 GEL WO 533288	=	0.002420	Bias excavation required
C-21-b	1/26/2021 GEL WO 533288	<	0.000387	Bias
C-21-a-1	2/8/2021 GEL WO 534641	=	0.002260	Bias
C-21-a-2	2/8/2021 GEL WO 534641	=	0.001170	Bias
C-21-a-1-North	2/23/2021 GEL WO 525611	<	0.000308	bias
C-21-a-1-South	2/23/2021 GEL WO 525611	<	0.000320	Bias

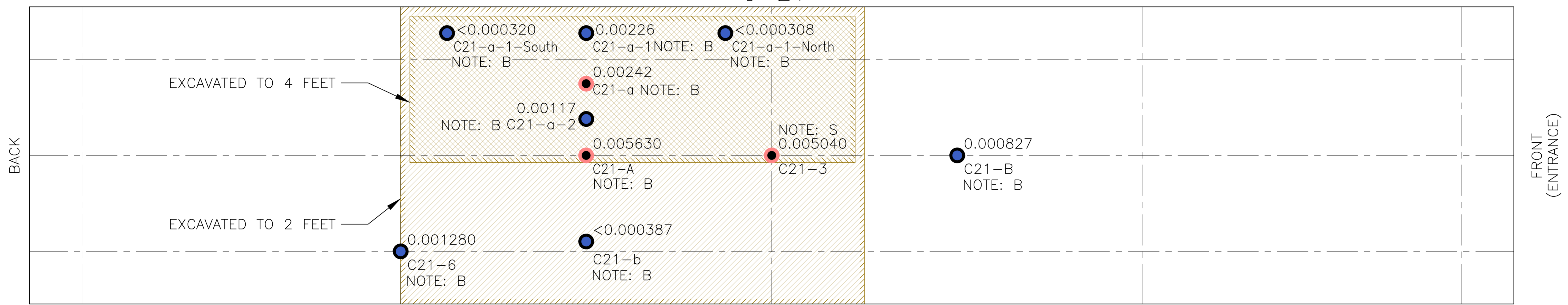
Residential Use Screening Level (RUSL): 0.0023 mg/kg

8 7 6 5 4 3 2 1

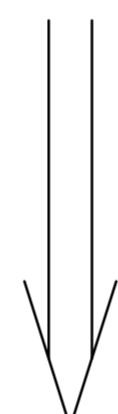
TO BUTLER BLDG



C-21



TO TRACTOR SHED



NOTES
 S SYSTEMATIC POINT
 B BIAS POINT
 < NON-DETECTED POINT

- VOC'S SAMPLED
- DOES NOT EXCEED LIMIT
- EXCEEDS 0.0023 PPM TCE LIMIT
- CONTAMINATED SOIL REMOVED TO EITHER 2 OR 4 FEET DEPTH

DFTM	W.D. HERLONG	03/02	ELECTRIC COMPANY LLC - NUCLEAR FUEL	
CHKD		2021	COLUMBIA, S.C. USA	
APPD			AREA / PROCESS	
APPD			C-21	
APPD			TITLE	
APPD			PCE SAMPLING (VOCs)	
APPD			UNIT: PPM TCE	
APPD			SCALE	REV
APPD			N/A	1
APPD			DWG TYPE	SHEET
APPD			N/A	01 of
				SHEETS

8 7 6 5 4 3 2 1

Attachment B

C-21 Sampling Events and Lab Reports

First Sampling Event

Reported in Nov 2020 Progress Report

Sampling conducted: September 10,12 &15, 2020

GEL Work Order: 521515

Report Date: September 30, 2020

Second Sampling Event

Sampling conducted: November 5, 2020

GEL Work Order: 526713

Report Date: November 11, 2020

Third Sampling Event

Sampling conducted: January 26, 2021

GEL Work Order: 533288

Report Date: February 3, 2021

Confirmatory Sampling Event

Sampling conducted: February 8, 2021

GEL Work Order: 534641

Report Date: February 16, 2021

Confirmatory Sampling Event

Sampling conducted: February 23, 2021

GEL Work Order: 535611

Report Date: February 26, 2021



November 11, 2020

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

Re: Sealand Soil Sampling
Work Order: 526713

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 original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

Sincerely,

Lindsay Fabra
Project Manager

Purchase Order: 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: 526713 GEL Work Order: 526713

The Qualifiers in this report are defined as follows:

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

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

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

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

Reviewed by _____

Lindsay Fabra



Analytical Detections Summary

SDG/Report#	526713	Client	Westinghouse Electric Co, LLC
Project ID	Sealand Soil Sampling		

GEL ID	Client Sample ID	Method	CAS	Analyte	Result	Q
526713001	C-21-A	SW846 8260D	127-18-4	Tetrachloroethylene	0.00563 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

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Certificate of Analysis

Report Date: November 11, 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-21-A	Project: WNUCSealand
Sample ID: 526713001	Client ID: WNUC009
Matrix: Soil	
Collect Date: 05-NOV-20 14:07	
Receive Date: 06-NOV-20	
Collector: Client	
Moisture: 6.42%	

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

Totals Tetrachloroethylene VOA only "Dry Weight Corrected"

Tetrachloroethylene	0.00563	0.000292	0.000877	mg/kg	0.821	1	JP1	11/09/20	1951	2060807	1
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The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	11/05/20	1407	2060806

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0428 mg/kg	0.0500	98	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0432 mg/kg	0.0500	98	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0420 mg/kg	0.0500	96	(81%-120%)

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

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Certificate of Analysis

Report Date: November 11, 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-21-B	Project:	WNUCSealand
Sample ID:	526713002	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	05-NOV-20 14:15		
Receive Date:	06-NOV-20		
Collector:	Client		
Moisture:	4.98%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	J	0.000827	0.000296	0.000889	mg/kg	0.845	1	PXY1	11/10/20	1440	2060807	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	11/05/20	1415	2060806

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0425 mg/kg	0.0500	96	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0439 mg/kg	0.0500	99	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0424 mg/kg	0.0500	95	(81%-120%)

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 11, 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-22-C Project: WNUCSealand
Sample ID: 526713003 Client ID: WNUC009
Matrix: Soil
Collect Date: 05-NOV-20 14:21
Receive Date: 06-NOV-20
Collector: Client
Moisture: 7.11%

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000316	0.000949	mg/kg	0.882	1	JP1	11/09/20	2045	2060807	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	11/05/20	1421	2060806

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	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	94	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0472 mg/kg	0.0500	99	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0460 mg/kg	0.0500	97	(81%-120%)

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 11, 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-22-D	Project: WNUCSealand
Sample ID: 526713004	Client ID: WNUC009
Matrix: Soil	
Collect Date: 05-NOV-20 14:29	
Receive Date: 06-NOV-20	
Collector: Client	
Moisture: 7.12%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	J	0.000839	0.000363	0.00109	mg/kg	1.01	1	JP1	11/09/20	2112	2060807	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	11/05/20	1429	2060806

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0510 mg/kg	0.0500	94	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0533 mg/kg	0.0500	98	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0530 mg/kg	0.0500	97	(81%-120%)

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 11, 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-23-E	Project: WNUCSealand
Sample ID: 526713005	Client ID: WNUC009
Matrix: Soil	
Collect Date: 05-NOV-20 14:38	
Receive Date: 06-NOV-20	
Collector: Client	
Moisture: 6.21%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000273	0.000819	mg/kg	0.768	1	JP1	11/09/20	2138	2060807	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	11/05/20	1438	2060806

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0403 mg/kg	0.0500	98	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0397 mg/kg	0.0500	97	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0385 mg/kg	0.0500	94	(81%-120%)

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 11, 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-23-F Project: WNUCSealand
Sample ID: 526713006 Client ID: WNUC009
Matrix: Soil
Collect Date: 05-NOV-20 14:45
Receive Date: 06-NOV-20
Collector: Client
Moisture: 8.16%

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000300	0.000901	mg/kg	0.828	1	JP1	11/09/20	2205	2060807	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	11/05/20	1445	2060806

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0421 mg/kg	0.0500	93	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0433 mg/kg	0.0500	96	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0432 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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: November 11, 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-21-A	Project:	WNUCSealand
Sample ID:	526713001	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	05-NOV-20 14:07		
Receive Date:	06-NOV-20		
Collector:	Client		
Moisture:	6.42%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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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: November 11, 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-21-B	Project:	WNUCSealand
Sample ID:	526713002	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	05-NOV-20 14:15		
Receive Date:	06-NOV-20		
Collector:	Client		
Moisture:	4.98%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
-----------	-----------	--------	-------------	-----	----	-------	----	----	---------	------	------	-------	--------

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: November 11, 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-22-C	Project:	WNUCSealand
Sample ID:	526713003	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	05-NOV-20 14:21		
Receive Date:	06-NOV-20		
Collector:	Client		
Moisture:	7.11%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
-----------	-----------	--------	-------------	-----	----	-------	----	----	---------	------	------	-------	--------

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: November 11, 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-22-D	Project:	WNUCSealand
Sample ID:	526713004	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	05-NOV-20 14:29		
Receive Date:	06-NOV-20		
Collector:	Client		
Moisture:	7.12%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
-----------	-----------	--------	-------------	-----	----	-------	----	----	---------	------	------	-------	--------

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: November 11, 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-23-E	Project:	WNUCSealand
Sample ID:	526713005	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	05-NOV-20 14:38		
Receive Date:	06-NOV-20		
Collector:	Client		
Moisture:	6.21%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
-----------	-----------	--------	-------------	-----	----	-------	----	----	---------	------	------	-------	--------

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: November 11, 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-23-F	Project:	WNUCSealand
Sample ID:	526713006	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	05-NOV-20 14:45		
Receive Date:	06-NOV-20		
Collector:	Client		
Moisture:	8.16%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
-----------	-----------	--------	-------------	-----	----	-------	----	----	---------	------	------	-------	--------

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

GEL LABORATORIES LLC

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

QC Summary

Report Date: November 11, 2020

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Westinghouse Electric Company, LLC

PO Drawer R
Columbia, South Carolina

Contact: Ms. Cynthia Teague

Workorder: 526713

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2060807										
QC1204690065	LCS										
Tetrachloroethylene	0.0500			0.0462	mg/kg		92	(68%-129%)	JP1	11/09/20	16:44
**1,2-Dichloroethane-d4	50.0			52.8	ug/L		106	(81%-124%)			
**Bromofluorobenzene	50.0			48.7	ug/L		97	(70%-130%)			
**Toluene-d8	50.0			47.8	ug/L		96	(81%-120%)			
QC1204691060	LCS										
Tetrachloroethylene	0.0500			0.0543	mg/kg		109	(68%-129%)	PXY1	11/10/20	11:33
**1,2-Dichloroethane-d4	50.0			50.4	ug/L		101	(81%-124%)			
**Bromofluorobenzene	50.0			49.4	ug/L		99	(70%-130%)			
**Toluene-d8	50.0			48.7	ug/L		97	(81%-120%)			
QC1204690066	LCSD										
Tetrachloroethylene	0.0500			0.0449	mg/kg	3	90	(0%-20%)	JP1	11/09/20	17:11
**1,2-Dichloroethane-d4	50.0			50.5	ug/L		101	(81%-124%)			
**Bromofluorobenzene	50.0			48.1	ug/L		96	(70%-130%)			
**Toluene-d8	50.0			47.7	ug/L		95	(81%-120%)			
QC1204690064	MB										
Tetrachloroethylene			U	ND	mg/kg					11/09/20	18:58

GEL LABORATORIES LLC

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

QC Summary

Workorder: 526713

Page 2 of 3

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2060807										
**1,2-Dichloroethane-d4	50.0			49.7	ug/L		99	(81%-124%)	JP1	11/09/20	18:58
**Bromofluorobenzene	50.0			49.3	ug/L		99	(70%-130%)			
**Toluene-d8	50.0			48.6	ug/L		97	(81%-120%)			
QC1204691059	MB										
Tetrachloroethylene			U	ND	mg/kg				PXY1	11/10/20	13:20
**1,2-Dichloroethane-d4	50.0			50.2	ug/L		100	(81%-124%)			
**Bromofluorobenzene	50.0			49.6	ug/L		99	(70%-130%)			
**Toluene-d8	50.0			49.3	ug/L		99	(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 Concentration of the target analyte exceeds the instrument calibration range
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- JNX Non Calibrated Compound
- 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.

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QC Summary

Workorder: 526713

Page 3 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
N1											
ND											
NJ											
P											
Q											
R											
U											
UJ											
X											
Y											
^											
h											

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.

GEL LABORATORIES LLC

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

QC Summary

Report Date: November 11, 2020

Page 1 of 2

Westinghouse Electric Company, LLC

PO Drawer R

Columbia, South Carolina

Contact: Ms. Cynthia Teague

Workorder: 526713

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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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: 526713

Page 2 of 2

<u>Parmname</u>	<u>NOM</u>	<u>Sample Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
-----------------	------------	--------------------	-----------	--------------	-------------	-------------	--------------	--------------	-------------	-------------

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 #: 526713

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: 2060807

Preparation Method: SW846 5035

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

Preparation Batch: 2060806

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
526713001	C-21-A
526713002	C-21-B
526713003	C-22-C
526713004	C-22-D
526713005	C-23-E
526713006	C-23-F
1204690064	Method Blank (MB)
1204690065	Laboratory Control Sample (LCS)
1204690066	Laboratory Control Sample Duplicate (LCSD)
1204691059	Method Blank (MB)
1204691060	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

Sample Re-extraction/Re-analysis

Sample 526713003 (C-22-C) was re-analyzed due to unacceptable surrogate or internal standard recoveries in the initial analysis. The re-analyses confirmed/and or passed and were reported.

Radiochemistry

Product: Dry Weight

Preparation Method: ASTM D 2216 (Modified)

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

Preparation Batch: 2060271

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
526713001	C-21-A
526713002	C-21-B
526713004	C-22-D
526713005	C-23-E
526713006	C-23-F
1204688783	526713001(C-21-A) 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: 2060827

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
526713003	C-22-C
1204690111	526713003(C-22-C) 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.

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 # Solard Soil Sampling
 GEL Quote #: WNCU609
 PO Number: 450778461 641
 Client Name: Wesinghouse Phone #: 803-312-4171
 Project/Site Name: SEARND soil exploratory sampling Fax #
 Address: 5801 Bluff Rd Hopkins SC 29061
 Collected By: R. Crews Send Results To: reggie@wesinghouse.com
 6713

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radioassay | Specialty Analytics
Chain of Custody and Analytical Request
GEL Project Manager:
 GEL Work Order Number:
 GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Sample ID <small>* For composites - indicate start and stop date/time</small>	Date Collected <small>(mm-dd-yy)</small>	Collected (Military) (hhmm)	QC Code	Field Filtered	Sample Matrix	Should this sample be considered: (7) Known or possible hazards Isotopic info	Total number of containers	Sample Analysis Requested (6) (Fill in the number of containers for each test)						Comments Note: extra sample is required for sample specific QC						
								1	2	3	4	5	6		7	8	9	10		
C-21-A	11-05-20	1407	G		SO		1													
C-21-B	11-05-20	1415	G		SO		1													
C-22-C	11-05-20	1421	G		SO		1													
C-22-D	11-05-20	1429	G		SO		1													
C-23-E	11-05-20	1438	G		SO		1													
C-23-F	11-05-20	1445	G		SO		1													

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<i>[Signature]</i>	11/6/20	152222 LOCATION	11/6/20	0830
<i>[Signature]</i>	11/6/20	<i>[Signature]</i>	11/6/20	1104
<i>[Signature]</i>	11/6/20	<i>[Signature]</i>	11/6/20	1335

Additional Remarks: **ENSURE MDL < 0.0023 ppm TCE**

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: 1 °C

Sample Collection Time Zone: Eastern Pacific Mountain Other

TAT Requested: Normal: Rush: Specify: 5day (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

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=Faecal, 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	Listed Waste	Other
FL = Flammable/ignitable	LW = Listed Waste	OT = Other / Unknown
CO = Corrosive	(F,K,P and U-listed wastes.)	(i.e.: High/low pH, asbestos, beryllium, irritants, other
RE = Reactive	Waste code(s):	misc. health hazards, etc.)
TSCA Regulated		Description:
PCB = Polychlorinated biphenyls		

RCRA Metals

As = Arsenic	Hg = Mercury
Ba = Barium	Sr = Selenium
Cd = Cadmium	Ag = Silver
Cr = Chromium	MR = Miscellaneous
Pb = Lead	RCRA metals

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.)

SAMPLE RECEIPT & REVIEW FORM

526713

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 <u>Courier</u> Other			
Suspected Hazard Information	Yes <input type="checkbox"/> No <input type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.			
A) Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___			
B) Did the client designate the samples are to be received as radioactive?	<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.			
C) Did the RSO classify the samples as radioactive?	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3			
D) Did the client designate samples are hazardous?	<input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.			
E) Did the RSO identify possible hazards?	<input checked="" type="checkbox"/>	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:			
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>10</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>TR1-20</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes <input checked="" type="checkbox"/> No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (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?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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

List of current GEL Certifications as of 11 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



February 03, 2021

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

Re: Sealand Soil Sampling
Work Order: 533288

Dear Ms. Teague:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 27, 2021. 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: 533288 GEL Work Order: 533288

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 _____

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 3, 2021

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-21-a	Project: WNUCSealand
Sample ID: 533288001	Client ID: WNUC009
Matrix: Soil	
Collect Date: 26-JAN-21 14:55	
Receive Date: 27-JAN-21	
Collector: Client	
Moisture: 9.66%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene		0.00242	0.000298	0.000896	mg/kg	0.809	1	PXY1	02/02/21	1531	2087144	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	PXY1	01/26/21	1455	2087142

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0454 mg/kg	0.0500	101	(76%-127%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0453 mg/kg	0.0500	101	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0446 mg/kg	0.0500	100	(81%-120%)

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: February 3, 2021

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-21-b Project: WNUCSealand
Sample ID: 533288002 Client ID: WNUC009
Matrix: Soil
Collect Date: 26-JAN-21 15:01
Receive Date: 27-JAN-21
Collector: Client
Moisture: 12.5%

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000387	0.00116	mg/kg	1.02	1	PXY1	01/29/21	2038	2087144	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	PXY1	01/26/21	1501	2087142

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0578 mg/kg	0.0500	100	(81%-124%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0618 mg/kg	0.0500	106	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0581 mg/kg	0.0500	100	(81%-120%)

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

QC Summary

Report Date: February 3, 2021

Page 1 of 3

Westinghouse Electric Company, LLC

PO Drawer R
Columbia, South Carolina

Contact: Ms. Cynthia Teague

Workorder: 533288

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2087144										
QC1204743513	LCS										
Tetrachloroethylene	0.0500			0.0453	mg/kg		91	(68%-129%)	PXY1	01/29/21	10:28
**1,2-Dichloroethane-d4	50.0			53.5	ug/L		107	(81%-124%)			
**Bromofluorobenzene	50.0			54.0	ug/L		108	(70%-130%)			
**Toluene-d8	50.0			52.0	ug/L		104	(81%-120%)			
QC1204745019	LCS										
Tetrachloroethylene	0.0500			0.0469	mg/kg		94	(70%-125%)		02/02/21	10:04
**1,2-Dichloroethane-d4	50.0			50.7	ug/L		101	(76%-127%)			
**Bromofluorobenzene	50.0			50.3	ug/L		101	(70%-130%)			
**Toluene-d8	50.0			50.4	ug/L		101	(81%-120%)			
QC1204743514	LCSD										
Tetrachloroethylene	0.0500			0.0459	mg/kg	1	92	(0%-20%)		01/29/21	10:56
**1,2-Dichloroethane-d4	50.0			52.0	ug/L		104	(81%-124%)			
**Bromofluorobenzene	50.0			52.0	ug/L		104	(70%-130%)			
**Toluene-d8	50.0			50.9	ug/L		102	(81%-120%)			
QC1204743512	MB										
Tetrachloroethylene			U	ND	mg/kg					01/29/21	13:22

GEL LABORATORIES LLC

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QC Summary

Workorder: 533288

Page 2 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2087144										
**1,2-Dichloroethane-d4	50.0			51.2	ug/L		102	(81%-124%)	PXY1	01/29/21	13:22
**Bromofluorobenzene	50.0			51.9	ug/L		104	(70%-130%)			
**Toluene-d8	50.0			51.4	ug/L		103	(81%-120%)			
QC1204745018	MB										
Tetrachloroethylene			U	ND	mg/kg					02/02/21	12:32
**1,2-Dichloroethane-d4	50.0			50.2	ug/L		100	(76%-127%)			
**Bromofluorobenzene	50.0			50.4	ug/L		101	(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
- 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 Concentration of the target analyte exceeds the instrument calibration range
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- JNX Non Calibrated Compound
- 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.

GEL LABORATORIES LLC

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QC Summary

Workorder: 533288

Page 3 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
N1											
ND											
NJ											
P											
Q											
R											
U											
UJ											
X											
Y											
^											
h											

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 #: 533288

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: 2087144

Preparation Method: SW846 5035

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

Preparation Batch: 2087142

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
533288001	C-21-a
533288002	C-21-b
1204743512	Method Blank (MB)
1204743513	Laboratory Control Sample (LCS)
1204743514	Laboratory Control Sample Duplicate (LCSD)
1204745018	Method Blank (MB)
1204745019	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

Sample Re-extraction/Re-analysis

Sample 533288001 (C-21-a) was re-analyzed due to unacceptable surrogate or internal standard recoveries in the initial analysis. The re-analyses confirmed/and or passed and were reported.

Radiochemistry

Product: Dry Weight

Preparation Method: ASTM D 2216 (Modified)

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

Preparation Batch: 2086192

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

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

533288001	C-21-a
533288002	C-21-b
1204741708	533382001(NonSDG) 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.

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.


Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
 GEL Work Order Number: 537269
 GEL Project Manager:
 Phone # 803.312.4171
 Fax # 803.695.3964

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

Sample ID <small>*For composites - indicate start and stop date/time</small>	*Date Collected (mm-dd-yy)	*Time Collected (Military (hhmm))	QC Code ⁽²⁾	Field Filtered ⁽³⁾	Sample Matrix ⁽⁴⁾	Radiactive (if Yes, please supply isotopic info.)	Should this sample be considered:	Total number of containers	Sample Analysis Requested ⁽⁵⁾ (Fill in the number of containers for each test)						Comments
									Preservative Type (6)						
C-21-a	1/26/2021	1455	G		SO			1	X						Note: extra sample is required for sample specific QC
C-21-b	1/26/2021	1501	G		SO			1	X						

Chain of Custody Signatures			
Relinquished By (Signed)	Date	Received by (signed)	Time
<i>Randy Crews</i>	01-27-2021	<i>1036</i>	
<i>149</i>	01-27-2021	<i>1149</i>	
<i>1544</i>	01-27-2021	<i>1544</i>	

Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks:
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: 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 = 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 Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	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:
---	--	--	---

SAMPLE RECEIPT & REVIEW FORM

533288

Client: <u>White</u>		SDG/AR/COC/Work Order: <u>LH</u>	
Received By: <u>Tye</u>		Date Received: <u>1/27/21</u>	
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services <u>Courier</u> Other	
		Suspected Hazard Information	
Suspected Hazard Information		Yes	No
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample Receipt Criteria		Yes	No
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Comments (Use Continuation Form if needed):			

PM (or PMA) review: Initials SH Date 1/28/21 Page 1 of 1

List of current GEL Certifications as of 03 February 2021

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	T104704235-21-18
Utah NELAP	SC000122020-34
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



February 16, 2021

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

Re: Sealand Soil Sampling
Work Order: 534641

Dear Ms. Teague:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 10, 2021. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

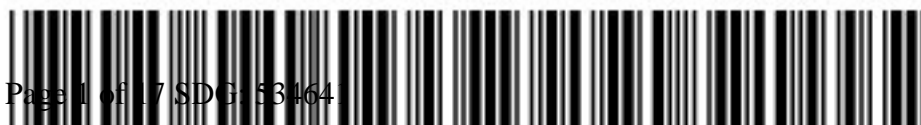
Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without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

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

Sincerely,

Lindsay Fabra
Project Manager

Purchase Order: 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: 534641 GEL Work Order: 534641

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



Analytical Detections Summary

SDG/Report#	534641	Client	Westinghouse Electric Co, LLC (4500778461)
Project ID	Sealand Soil Sampling		

GEL ID	Client Sample ID	Method	CAS	Analyte	Result	Q
534641001	C-21-a-1	SW846 8260D	127-18-4	Tetrachloroethylene	0.00226 mg/kg	
534641002	C-21-a-2	SW846 8260D	127-18-4	Tetrachloroethylene	0.00117 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: February 16, 2021

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-21-a-1 Project: WNUCSealand
Sample ID: 534641001 Client ID: WNUC009
Matrix: Soil
Collect Date: 08-FEB-21 13:30
Receive Date: 10-FEB-21
Collector: Client
Moisture: 11.7%

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene		0.00226	0.000230	0.000690	mg/kg	0.610	1	JP1	02/12/21	0139	2092093	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	02/08/21	1330	2092092

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0332 mg/kg	0.0500	96	(76%-127%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0336 mg/kg	0.0500	97	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0339 mg/kg	0.0500	98	(81%-120%)

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: February 16, 2021

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-21-a-2 Project: WNUCSealand
 Sample ID: 534641002 Client ID: WNUC009
 Matrix: Soil
 Collect Date: 08-FEB-21 13:20
 Receive Date: 10-FEB-21
 Collector: Client
 Moisture: 14.6%

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene		0.00117	0.000365	0.00109	mg/kg	0.935	1	JP1	02/12/21	0204	2092093	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JP1	02/08/21	1320	2092092

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260D	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4		Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0522 mg/kg	0.0500	95	(76%-127%)
Bromofluorobenzene		Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0527 mg/kg	0.0500	96	(70%-130%)
Toluene-d8		Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0540 mg/kg	0.0500	99	(81%-120%)

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: February 16, 2021

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-21-a-1	Project:	WNUCSealand
Sample ID:	534641001	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	08-FEB-21 13:30		
Receive Date:	10-FEB-21		
Collector:	Client		
Moisture:	11.7%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
-----------	-----------	--------	-------------	-----	----	-------	----	----	---------	------	------	-------	--------

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 16, 2021

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-21-a-2	Project:	WNUCSealand
Sample ID:	534641002	Client ID:	WNUC009
Matrix:	Soil		
Collect Date:	08-FEB-21 13:20		
Receive Date:	10-FEB-21		
Collector:	Client		
Moisture:	14.6%		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
-----------	-----------	--------	-------------	-----	----	-------	----	----	---------	------	------	-------	--------

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

GEL LABORATORIES LLC

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

QC Summary

Report Date: February 16, 2021

Page 1 of 3

Westinghouse Electric Company, LLC

PO Drawer R
Columbia, South Carolina

Contact: Ms. Cynthia Teague

Workorder: 534641

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2092093										
QC1204752977	LCS										
Tetrachloroethylene	0.0500			0.0521	mg/kg		104	(70%-125%)	JP1	02/11/21	18:04
**1,2-Dichloroethane-d4	50.0			48.0	ug/L		96	(76%-127%)			
**Bromofluorobenzene	50.0			46.9	ug/L		94	(70%-130%)			
**Toluene-d8	50.0			47.3	ug/L		95	(81%-120%)			
QC1204752975	MB										
Tetrachloroethylene			U	ND	mg/kg					02/11/21	19:45
**1,2-Dichloroethane-d4	50.0			47.6	ug/L		95	(76%-127%)			
**Bromofluorobenzene	50.0			47.4	ug/L		95	(70%-130%)			
**Toluene-d8	50.0			47.9	ug/L		96	(81%-120%)			
QC1204752978	533811010	PS									
Tetrachloroethylene	50.0	U	ND	45.7	ug/L		91	(46%-134%)		02/12/21	02:29
**1,2-Dichloroethane-d4	50.0		45.5	48.0	ug/L		96	(76%-127%)			
**Bromofluorobenzene	50.0		50.1	51.7	ug/L		103	(70%-130%)			
**Toluene-d8	50.0		49.2	51.1	ug/L		102	(81%-120%)			
QC1204752979	533811010	PSD									
Tetrachloroethylene	50.0	U	ND	45.2	ug/L	1	90	(0%-20%)		02/12/21	02:54

GEL LABORATORIES LLC

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

QC Summary

Workorder: 534641

Page 2 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2092093										
**1,2-Dichloroethane-d4	50.0	45.5		47.7	ug/L		95	(76%-127%)	JP1	02/12/21	02:54
**Bromofluorobenzene	50.0	50.1		52.3	ug/L		105	(70%-130%)			
**Toluene-d8	50.0	49.2		48.8	ug/L		98	(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 Concentration of the target analyte exceeds the instrument calibration range
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- JNX Non Calibrated Compound
- 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 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 QC Samples were not spiked with this compound

GEL LABORATORIES LLC

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

QC Summary

Workorder: 534641

Page 3 of 3

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.

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.

GEL LABORATORIES LLC

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

QC Summary

Report Date: February 16, 2021

Page 1 of 2

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

Contact: Ms. Cynthia Teague

Workorder: 534641

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

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

GEL LABORATORIES LLC

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

QC Summary

Workorder: 534641

Page 2 of 2

<u>Parmname</u>	<u>NOM</u>	<u>Sample Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
-----------------	------------	--------------------	-----------	--------------	-------------	-------------	--------------	--------------	-------------	-------------

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 #: 534641

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: 2092093

Preparation Method: SW846 5035

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

Preparation Batch: 2092092

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
534641001	C-21-a-1
534641002	C-21-a-2
1204752975	Method Blank (MB)
1204752977	Laboratory Control Sample (LCS)
1204752978	533811010(NonSDG) Post Spike (PS)
1204752979	533811010(NonSDG) Post Spike Duplicate (PSD)

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.

Radiochemistry

Product: Dry Weight

Preparation Method: ASTM D 2216 (Modified)

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

Preparation Batch: 2091638

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
534641001	C-21-a-1
534641002	C-21-a-2
1204752056	534641001(C-21-a-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.

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 TCE Excavation
 GEL Quote #: WNUC009
 COC Number ⁽¹⁾: 534641
 PO # 4500778461, Line 1

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
Chain of Custody and Analytical Request
GEL Project Manager:
 Phone # 803.312.4171
 Fax # 803.695.3964

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

Client Name: Westinghouse
 Project/Site Name: 534641
 Address: 5801 Bluff Road, Hopkins, SC 29061
 Collected By: Randy Crews *RCWS*
 Send Results To: teaguec@westinghouse.com

Sample ID
 * For composites - indicate start and stop date/time

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code ⁽³⁾	Field Filtered ⁽³⁾	Sample Matrix ⁽⁴⁾
C-21-a-1	2/8/2021	1330	G		SO
C-21-a-2	2/8/2021	1320	G		SO

Should this sample be considered:
 Yes, please supply isotopic info.
 (7) Known or possible Hazards
 Total number of containers: 1
 Tetrahydroethylene

Sample Analysis Requested ⁽⁵⁾ (Fill in the number of containers for each test)
 <-- Preservative Type (6)

Comments
 Note: extra sample is required for sample specific QC

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

Relinquished By (Signed)	Date	Time
<i>RCWS</i>	02-10-2021	1022
<i>RCWS</i>	02-10-2021	1044
<i>RCWS</i>	02-10-2021	1535

Chain of Custody Signatures
 TAT Requested: Normal: Rush: Specify: 5 days (1 week)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks:
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: 1 °C
 Sample Collection Time Zone: Eastern Pacific 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=Feal, 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, LW = Listed Waste, CO = Corrosive, RE = Reactive, Waste code(s):
 TSCA Regulated: PCB = Polychlorinated biphenyls
 Other: OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description:

2 SAMPLE RECEIPT & REVIEW FORM

534641

Client: <u>WNKC</u>		SDG/AR/COC/Work Order:	
Received By: <u>ZKW</u>		Date Received: <u>2/10/21</u>	
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services <u>COUNES</u> Other	
		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
Suspected Hazard Information		Yes	No
A) Shipped as a DOT Hazardous?			<input checked="" type="checkbox"/>
B) Did the client designate the samples are to be received as radioactive?			<input checked="" type="checkbox"/>
C) Did the RSO classify the samples as radioactive?			<input checked="" type="checkbox"/>
D) Did the client designate samples are hazardous?			<input checked="" type="checkbox"/>
E) Did the RSO identify possible hazards?			<input checked="" type="checkbox"/>
Sample Receipt Criteria		Yes	NA
1 Shipping containers received intact and sealed?		<input checked="" type="checkbox"/>	
2 Chain of custody documents included with shipment?		<input checked="" type="checkbox"/>	
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		<input checked="" type="checkbox"/>	
4 Daily check performed and passed on IR temperature gun?		<input checked="" type="checkbox"/>	
5 Sample containers intact and sealed?		<input checked="" type="checkbox"/>	
6 Samples requiring chemical preservation at proper pH?		<input checked="" type="checkbox"/>	
7 Do any samples require Volatile Analysis?		<input checked="" type="checkbox"/>	
8 Samples received within holding time?		<input checked="" type="checkbox"/>	
9 Sample ID's on COC match ID's on bottles?		<input checked="" type="checkbox"/>	
10 Date & time on COC match date & time on bottles?		<input checked="" type="checkbox"/>	
11 Number of containers received match number indicated on COC?		<input checked="" type="checkbox"/>	
12 Are sample containers identifiable as GEL provided by use of GEL labels?		<input checked="" type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?		<input checked="" type="checkbox"/>	
Comments (Use Continuation Form if needed):			

PM (or PMA) review: Initials SH Date 2/11/21 Page (1 of 1)

List of current GEL Certifications as of 16 February 2021

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	T104704235-21-19
Utah NELAP	SC000122020-34
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



February 26, 2021

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

Re: Sealand Soil Sampling
Work Order: 535611

Dear Ms. Teague:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 24, 2021. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

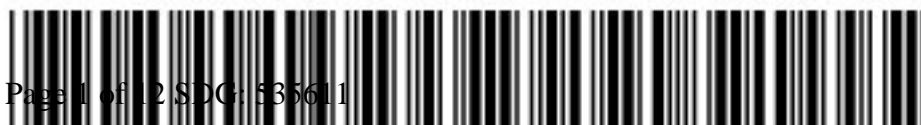
Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without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

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

Sincerely,

Lindsay Fabra
Project Manager

Purchase Order: 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: 535611 GEL Work Order: 535611

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

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

Certificate of Analysis

Report Date: February 26, 2021

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-21-a-1-North	Project: WNUCSealand
Sample ID: 535611001	Client ID: WNUC009
Matrix: Soil	
Collect Date: 23-FEB-21 09:08	
Receive Date: 24-FEB-21	
Collector: Client	
Moisture: 13.5%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000308	0.000924	mg/kg	0.800	1	PXY1	02/25/21	1206	2096146	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	PXY1	02/23/21	0908	2096144

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0459 mg/kg	0.0500	99	(76%-127%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0450 mg/kg	0.0500	97	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0448 mg/kg	0.0500	97	(81%-120%)

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: February 26, 2021

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-21-a-2-South	Project: WNUCSealand
Sample ID: 535611002	Client ID: WNUC009
Matrix: Soil	
Collect Date: 23-FEB-21 09:16	
Receive Date: 24-FEB-21	
Collector: Client	
Moisture: 14.5%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
Totals Tetrachloroethylene VOA only "Dry Weight Corrected"												
Tetrachloroethylene	U	ND	0.000320	0.000960	mg/kg	0.821	1	PXY1	02/25/21	1236	2096146	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	PXY1	02/23/21	0916	2096144

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0479 mg/kg	0.0500	100	(76%-127%)
Bromofluorobenzene	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0485 mg/kg	0.0500	101	(70%-130%)
Toluene-d8	Totals Tetrachloroethylene VOA only "Dry Weight Corrected"	0.0460 mg/kg	0.0500	96	(81%-120%)

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

QC Summary

Report Date: February 26, 2021

Page 1 of 3

Westinghouse Electric Company, LLC

PO Drawer R
Columbia, South Carolina

Contact: Ms. Cynthia Teague

Workorder: 535611

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2096146										
QC1204759891	LCS										
Tetrachloroethylene	0.0500			0.0481	mg/kg		96	(70%-125%)	PXY1	02/25/21	10:10
**1,2-Dichloroethane-d4	50.0			44.5	ug/L		89	(76%-127%)			
**Bromofluorobenzene	50.0			49.3	ug/L		99	(70%-130%)			
**Toluene-d8	50.0			51.1	ug/L		102	(81%-120%)			
QC1204759890	MB										
Tetrachloroethylene			U	ND	mg/kg					02/25/21	11:08
**1,2-Dichloroethane-d4	50.0			46.3	ug/L		93	(76%-127%)			
**Bromofluorobenzene	50.0			48.0	ug/L		96	(70%-130%)			
**Toluene-d8	50.0			48.4	ug/L		97	(81%-120%)			
QC1204759892	535667001	PS									
Tetrachloroethylene	50.0	U	ND	40.3	ug/L		81	(46%-134%)		02/25/21	20:25
**1,2-Dichloroethane-d4	50.0		50.3	49.8	ug/L		100	(76%-127%)			
**Bromofluorobenzene	50.0		48.7	49.1	ug/L		98	(70%-130%)			
**Toluene-d8	50.0		48.3	47.7	ug/L		95	(81%-120%)			
QC1204759893	535667001	PSD									
Tetrachloroethylene	50.0	U	ND	41.1	ug/L	2	82	(0%-20%)		02/25/21	20:54

GEL LABORATORIES LLC

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QC Summary

Workorder: 535611

Page 2 of 3

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2096146										
**1,2-Dichloroethane-d4	50.0	50.3		47.8	ug/L		96	(76%-127%)	PXY1	02/25/21	20:54
**Bromofluorobenzene	50.0	48.7		49.2	ug/L		98	(70%-130%)			
**Toluene-d8	50.0	48.3		46.7	ug/L		93	(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 Concentration of the target analyte exceeds the instrument calibration range
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- JNX Non Calibrated Compound
- 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 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 QC Samples were not spiked with this compound

GEL LABORATORIES LLC

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

QC Summary

Workorder: 535611

Page 3 of 3

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.

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 #: 535611**

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: 2096146

Preparation Method: SW846 5035

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

Preparation Batch: 2096144

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
535611001	C-21-a-1-North
535611002	C-21-a-2-South
1204759890	Method Blank (MB)
1204759891	Laboratory Control Sample (LCS)
1204759892	535667001(NonSDG) Post Spike (PS)
1204759893	535667001(NonSDG) Post Spike Duplicate (PSD)

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.

Radiochemistry

Product: Dry Weight

Preparation Method: ASTM D 2216 (Modified)

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

Preparation Batch: 2095952

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
535611001	C-21-a-1-North
535611002	C-21-a-2-South

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.

Miscellaneous Information

Additional Comments

The duplicate for sample 535611001 was accidentally spilled when taking dry weights. The DUP has been removed as there is no accurate data and no additional sample to dry. 535611001 (C-21-a-1-North).

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 TCE Excavation
 GEL Quote #: WNUC009
 LOC Number (1):
 PO # 4500778461, Line 1



Laboratories LLC
 Chemistry | Radiochemistry | Radiobioassay | Speciality Analytics

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

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager:

Client Name: Westinghouse

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

Phone # 803.312.4171
 Fax # 803.695.3964

Project/Site Name:
 Address: 5801 Bluff Road, Hopkins, SC 29061

Collected By: Randy Crews
 Send Results To: teaguec@westinghouse.com

Sample ID	Date Collected (mm-dd-yy)	Time Collected (Military (hhmm))	QC Code	Field Filtered	Sample Matrix	Radioactive (If Yes, please supply isotopic info.)	Should this sample be considered:	Total number of containers	Tetrachloroethylene	Preservative Type (6)	Comments
C-21-a-1-North	2/23/2021	0908	G		SO			1	X		Note: extra sample is required for sample specific QC
C-21-a-2-South	2/23/2021	0916	G		SO			1	X		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
Randy Crews	02-24-2021	0938		02-24-2021	0938
	02-24-2021	1215			
	02-24-2021	1520			

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=Faecal, 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

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.)

SAMPLE RECEIPT & REVIEW FORM

Client: WNuc SDG/AR/COC/Work Order: 535611 L-H.

Received By: Tye Date Received: 2/24/21

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? Yes No
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? Yes No
COC notation or radioactive stickers on containers equal client designation.

C) Did the RSO classify the samples as radioactive? Yes No
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? Yes No
COC notation or hazard labels on containers equal client designation.

E) Did the RSO identify possible hazards? Yes No
If D or E is yes, select Hazards below.
PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>1°C</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR319</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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 ___
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials MRB Date 2/25/21 Page 1 of 1

List of current GEL Certifications as of 26 February 2021

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	T104704235-21-19
Utah NELAP	SC000122020-34
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Beacon Environmental Map Report (Soil Gas Surveys)



Beacon Environmental
2203A Commerce Road, Suite 1
Forest Hill, MD 21050 USA
1.410.838.8780

CERTIFICATE OF ANALYSIS

Beacon Proposal No.: 201103R03

Beacon Project No.: 0005603

Project Description:

Project Site: Westinghouse-CFFF
Hopkins, SC

Client PO No.: 130171

Prepared for:

Jeremy Grant

AECOM

101 Research Drive

Columbia, SC 29203

Ryan W. Schneider
Senior Project Manager

February 12, 2021

All data meet requirements as specified in the Beacon Environmental Services, Inc. Quality Assurance Project Plan and the results relate only to the samples reported. The work performed was in accordance with ISO/IEC 17025:2017 requirements, except samples were analyzed within a 24-hour tune window. This report shall not be reproduced, except in full, without written approval of the laboratory. Release of the data contained in this data package has been authorized by the Laboratory Director or his signee, as verified by the following signatures:

Steven C. Thornley
Laboratory Director

Peter B. Kelly
Interim Quality Manager

AECOM 101 Research Drive Columbia, SC 29203	Project Site: Westinghouse-CFFF Project Location: Hopkins, SC Project Manager: Jeremy Grant	Beacon Proposal: 201103R03 Beacon Project No.: 0005603 Reported: 02/12/2021
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Summary of Compound Detections- Mass

Lab Sample ID: 0005603-02	SG-26 Soil Gas	Method: EPA 8260C
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Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Tetrachloroethene	127-18-4	74		10	S21020306.D

Lab Sample ID: 0005603-03	SG-27 Soil Gas	Method: EPA 8260C
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Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Vinyl Chloride	75-01-4	19		10	S21020307.D
cis-1,2-Dichloroethene	156-59-2	38		10	S21020307.D
Trichloroethene	79-01-6	56		10	S21020307.D
Tetrachloroethene	127-18-4	388		10	S21020307.D

Lab Sample ID: 0005603-04	SG-27 Dup Soil Gas	Method: EPA 8260C
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Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Vinyl Chloride	75-01-4	11		10	S21020308.D
cis-1,2-Dichloroethene	156-59-2	35		10	S21020308.D
Trichloroethene	79-01-6	67		10	S21020308.D
Tetrachloroethene	127-18-4	224		10	S21020308.D

Lab Sample ID: 0005603-05	SG-28 Soil Gas	Method: EPA 8260C
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Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Trichloroethene	79-01-6	15		10	S21020309.D
Tetrachloroethene	127-18-4	89		10	S21020309.D

AECOM
101 Research Drive
Columbia, SC 29203

Project Site: Westinghouse-CFFF
Project Location: Hopkins, SC
Project Manager: Jeremy Grant

Beacon Proposal: 201103R03
Beacon Project No.: 0005603
Reported: 02/12/2021

Summary of Compound Detections- Mass

Lab Sample ID: 0005603-06	SG-29 Soil Gas	Method: EPA 8260C
---------------------------	--------------------------	-------------------

Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Trichloroethene	79-01-6	241		10	S21020310.D
Tetrachloroethene	127-18-4	3,420		10	S21020310.D

Lab Sample ID: 0005603-07	SG-30 Soil Gas	Method: EPA 8260C
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Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Trichloroethene	79-01-6	17		10	S21020311.D
Tetrachloroethene	127-18-4	148		10	S21020311.D

Lab Sample ID: 0005603-08	SG-31 Soil Gas	Method: EPA 8260C
---------------------------	--------------------------	-------------------

Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Tetrachloroethene	127-18-4	55		10	S21020312.D

Lab Sample ID: 0005603-09	SG-32 Soil Gas	Method: EPA 8260C
---------------------------	--------------------------	-------------------

Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
cis-1,2-Dichloroethene	156-59-2	17		10	S21020313.D
Trichloroethene	79-01-6	298		10	S21020313.D
Tetrachloroethene	127-18-4	2,900		10	S21020313.D

AECOM 101 Research Drive Columbia, SC 29203	Project Site: Westinghouse-CFFF Project Location: Hopkins, SC Project Manager: Jeremy Grant	Beacon Proposal: 201103R03 Beacon Project No.: 0005603 Reported: 02/12/2021
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Summary of Compound Detections- Mass

Lab Sample ID: 0005603-10	SG-33 Soil Gas	Method: EPA 8260C
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Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
1,1-Dichloroethene	75-35-4	11		10	S21020314.D
trans-1,2-Dichloroethene	156-60-5	38		10	S21020314.D
cis-1,2-Dichloroethene	156-59-2	129		10	S21020314.D
Trichloroethene	79-01-6	1,710		10	S21020314.D
Tetrachloroethene	127-18-4	7,110		10	S21020314.D

Lab Sample ID: 0005603-11	SG-34 Soil Gas	Method: EPA 8260C
---------------------------	--------------------------	-------------------

Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Tetrachloroethene	127-18-4	12		10	S21020315.D

Lab Sample ID: 0005603-12	SG-35 Soil Gas	Method: EPA 8260C
---------------------------	--------------------------	-------------------

Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Tetrachloroethene	127-18-4	224		10	S21020316.D

Lab Sample ID: 0005603-13	SG-36 Soil Gas	Method: EPA 8260C
---------------------------	--------------------------	-------------------

Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Trichloroethene	79-01-6	27		10	S21020317.D
Tetrachloroethene	127-18-4	1,080		10	S21020317.D

AECOM
101 Research Drive
Columbia, SC 29203

Project Site: Westinghouse-CFFF
Project Location: Hopkins, SC
Project Manager: Jeremy Grant

Beacon Proposal: 201103R03
Beacon Project No.: 0005603
Reported: 02/12/2021

Summary of Compound Detections- Mass

Lab Sample ID: 0005603-14	SG-37	Method: EPA 8260C
	Soil Gas	

Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
cis-1,2-Dichloroethene	156-59-2	90		10	S21020318.D
Trichloroethene	79-01-6	604		10	S21020318.D
Tetrachloroethene	127-18-4	6,680		10	S21020318.D

Lab Sample ID: 0005603-15	SG-38	Method: EPA 8260C
	Soil Gas	

Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Vinyl Chloride	75-01-4	59		10	S21020319.D
1,1-Dichloroethene	75-35-4	45		10	S21020319.D
1,1,2-Trichlorotrifluoroethane (Fr.113)	76-13-1	11		10	S21020319.D
trans-1,2-Dichloroethene	156-60-5	6,720		10	S21020319.D
1,1-Dichloroethane	75-34-3	22		10	S21020319.D
cis-1,2-Dichloroethene	156-59-2	5,840		10	S21020319.D
Chloroform	67-66-3	18		10	S21020319.D
Trichloroethene	79-01-6	10,100		10	S21020319.D
Tetrachloroethene	127-18-4	8,780		10	S21020319.D

Lab Sample ID: 0005603-16	SG-39	Method: EPA 8260C
	Soil Gas	

Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Tetrachloroethene	127-18-4	24		10	S21020320.D

Lab Sample ID: 0005603-17	SG-40	Method: EPA 8260C
	Soil Gas	

Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Tetrachloroethene	127-18-4	221		10	S21020321.D

AECOM 101 Research Drive Columbia, SC 29203	Project Site: Westinghouse-CFFF Project Location: Hopkins, SC Project Manager: Jeremy Grant	Beacon Proposal: 201103R03 Beacon Project No.: 0005603 Reported: 02/12/2021
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Summary of Compound Detections- Mass

Lab Sample ID: 0005603-18	SG-41 Soil Gas	Method: EPA 8260C
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Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Trichloroethene	79-01-6	48		10	S21020322.D
Tetrachloroethene	127-18-4	1,220		10	S21020322.D

Lab Sample ID: 0005603-19	SG-42 Soil Gas	Method: EPA 8260C
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Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Trichloroethene	79-01-6	20		10	S21020323.D
Tetrachloroethene	127-18-4	102		10	S21020323.D

Lab Sample ID: 0005603-20	SG-43 Soil Gas	Method: EPA 8260C
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Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Trichloroethene	79-01-6	33		10	S21020324.D
Tetrachloroethene	127-18-4	1,080		10	S21020324.D

Lab Sample ID: 0005603-21	SG-44 Soil Gas	Method: EPA 8260C
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Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Trichloroethene	79-01-6	66		10	S21020325.D
Tetrachloroethene	127-18-4	757		10	S21020325.D

AECOM
101 Research Drive
Columbia, SC 29203

Project Site: Westinghouse-CFFF
Project Location: Hopkins, SC
Project Manager: Jeremy Grant

Beacon Proposal: 201103R03
Beacon Project No.: 0005603
Reported: 02/12/2021

Summary of Compound Detections- Mass

Lab Sample ID: 0005603-22	SG-45	Method: EPA 8260C
	Soil Gas	

Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
1,1,2-Trichlorotrifluoroethane (Fr.113)	76-13-1	12		10	S21020326.D
trans-1,2-Dichloroethene	156-60-5	136		10	S21020326.D
cis-1,2-Dichloroethene	156-59-2	85		10	S21020326.D
Chloroform	67-66-3	17		10	S21020326.D
Trichloroethene	79-01-6	2,440		10	S21020326.D
Tetrachloroethene	127-18-4	8,590		10	S21020326.D

Lab Sample ID: 0005603-23	SG-46	Method: EPA 8260C
	Soil Gas	

Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Tetrachloroethene	127-18-4	121		10	S21020327.D

Lab Sample ID: 0005603-25	SG-48	Method: EPA 8260C
	Soil Gas	

Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Vinyl Chloride	75-01-4	10		10	S21020329.D
1,1-Dichloroethene	75-35-4	59		10	S21020329.D
trans-1,2-Dichloroethene	156-60-5	245		10	S21020329.D
cis-1,2-Dichloroethene	156-59-2	2,820		10	S21020329.D
Trichloroethene	79-01-6	4,860		10	S21020329.D
Tetrachloroethene	127-18-4	5,210		10	S21020329.D

Lab Sample ID: 0005603-26	SG-49	Method: EPA 8260C
	Soil Gas	

Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Trichloroethene	79-01-6	12		10	S21020330.D
Tetrachloroethene	127-18-4	57		10	S21020330.D

AECOM 101 Research Drive Columbia, SC 29203	Project Site: Westinghouse-CFFF Project Location: Hopkins, SC Project Manager: Jeremy Grant	Beacon Proposal: 201103R03 Beacon Project No.: 0005603 Reported: 02/12/2021
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Summary of Compound Detections- Mass

Lab Sample ID: 0005603-27	SG-49 Dup Soil Gas	Method: EPA 8260C
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Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Tetrachloroethene	127-18-4	47		10	S21020331.D

Lab Sample ID: 0005603-28	SG-50 Soil Gas	Method: EPA 8260C
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Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Trichloroethene	79-01-6	11		10	S21020332.D
Tetrachloroethene	127-18-4	118		10	S21020332.D

Lab Sample ID: 0005603-29	SG-51 Soil Gas	Method: EPA 8260C
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Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Tetrachloroethene	127-18-4	24		10	S21020333.D

Lab Sample ID: 0005603-30	SG-52 Soil Gas	Method: EPA 8260C
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Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Chloroform	67-66-3	22		10	S21020334.D
Trichloroethene	79-01-6	18		10	S21020334.D
Tetrachloroethene	127-18-4	584		10	S21020334.D

AECOM 101 Research Drive Columbia, SC 29203	Project Site: Westinghouse-CFFF Project Location: Hopkins, SC Project Manager: Jeremy Grant	Beacon Proposal: 201103R03 Beacon Project No.: 0005603 Reported: 02/12/2021
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Summary of Compound Detections- Mass

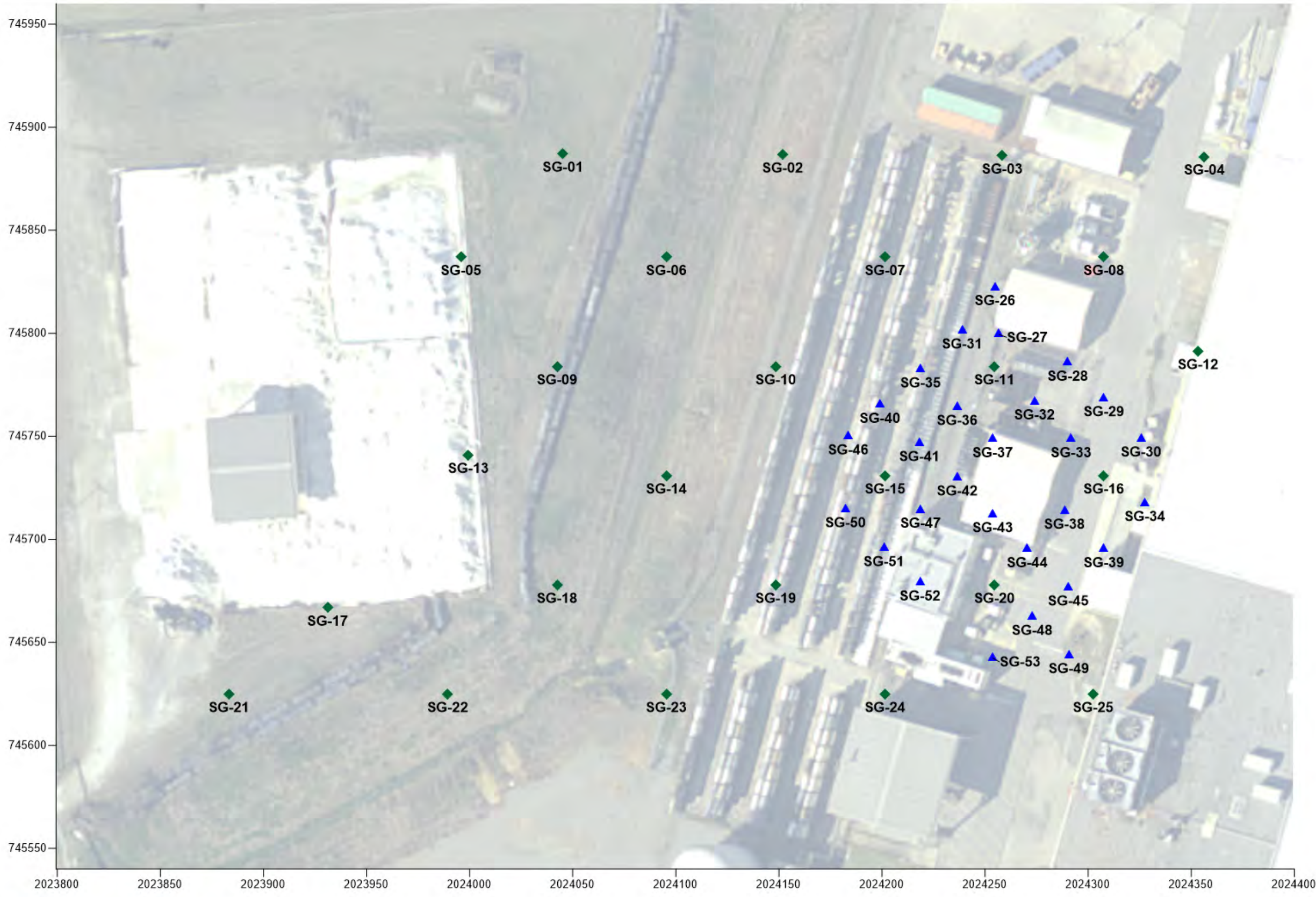
Lab Sample ID: 0005603-31	SG-53		Method: EPA 8260C		
Soil Gas					
Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Vinyl Chloride	75-01-4	32		10	S21020335.D
1,1-Dichloroethene	75-35-4	68		10	S21020335.D
trans-1,2-Dichloroethene	156-60-5	353		10	S21020335.D
cis-1,2-Dichloroethene	156-59-2	4,510		10	S21020335.D
Trichloroethene	79-01-6	4,240		10	S21020335.D
Tetrachloroethene	127-18-4	2,860		10	S21020335.D

AECOM 101 Research Drive Columbia, SC 29203	Project Site: Westinghouse-CFFF Project Location: Hopkins, SC Project Manager: Jeremy Grant	Beacon Proposal: 201103R03 Beacon Project No.: 0005603 Reported: 02/12/2021
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Map Data Summary Table

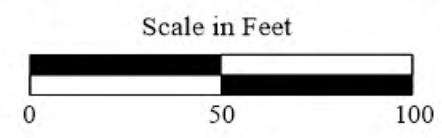
Sample locations are shown on **Figure 1**. The following table lists number of detections on field samples from the current survey, the reporting limit, and the maximum value for each mapped compound. The table also includes the transformation and interpolation method for the compound distribution maps provided.

Figure No.	Compound	Number of Detections	LOQ (ng)	Max Value (ng)	Transformation Method	Interpolation Method
2	cis-1,2-Dichloroethene	8	10	5,840	Log	Kriging
3	Trichloroethene	19	10	10,100	Log	Kriging
4	Tetrachloroethene	27	10	8,780	Log	Kriging



LEGEND

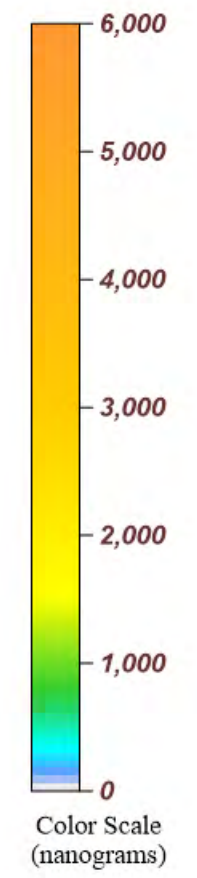
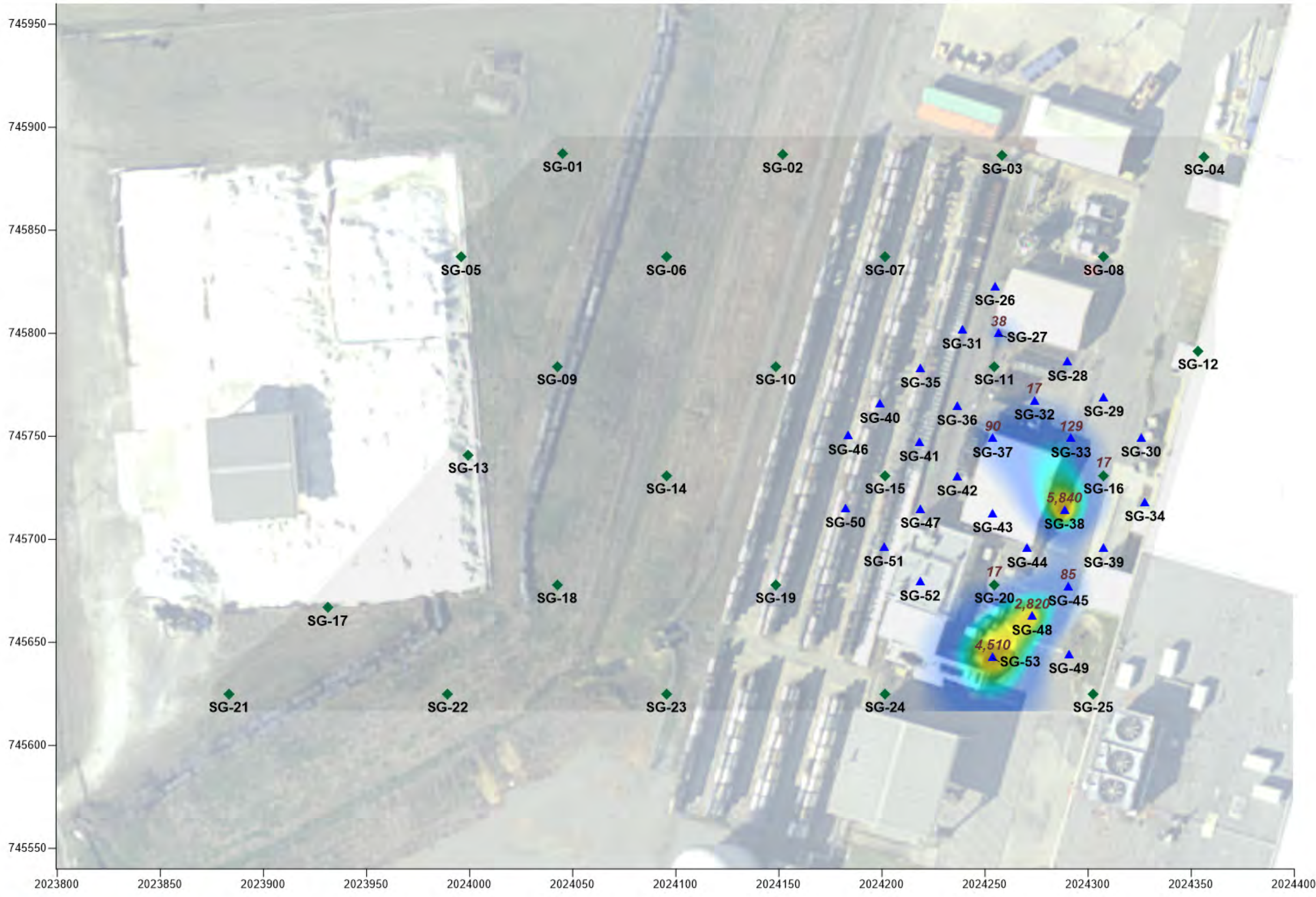
- ▲ PASSIVE SOIL-GAS SAMPLE LOCATION (December 2020)
- ◆ PASSIVE SOIL-GAS SAMPLE LOCATION (February 2021)



System: State Plane
 Zone: South Carolina
 Datum: NAD 1983
 Coordinate Units: Feet

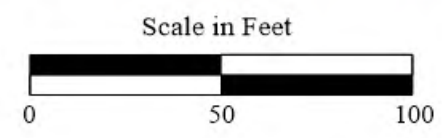
Figure 1
Passive Soil-Gas Survey
Sample Locations

Westinghouse CFFF
Hopkins, SC



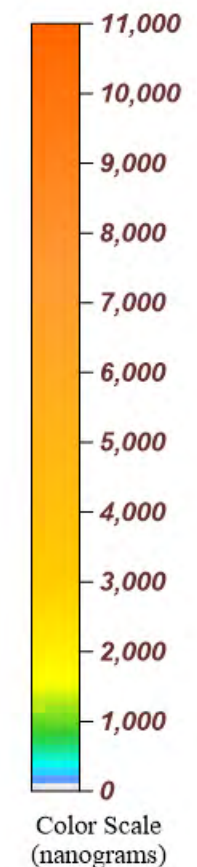
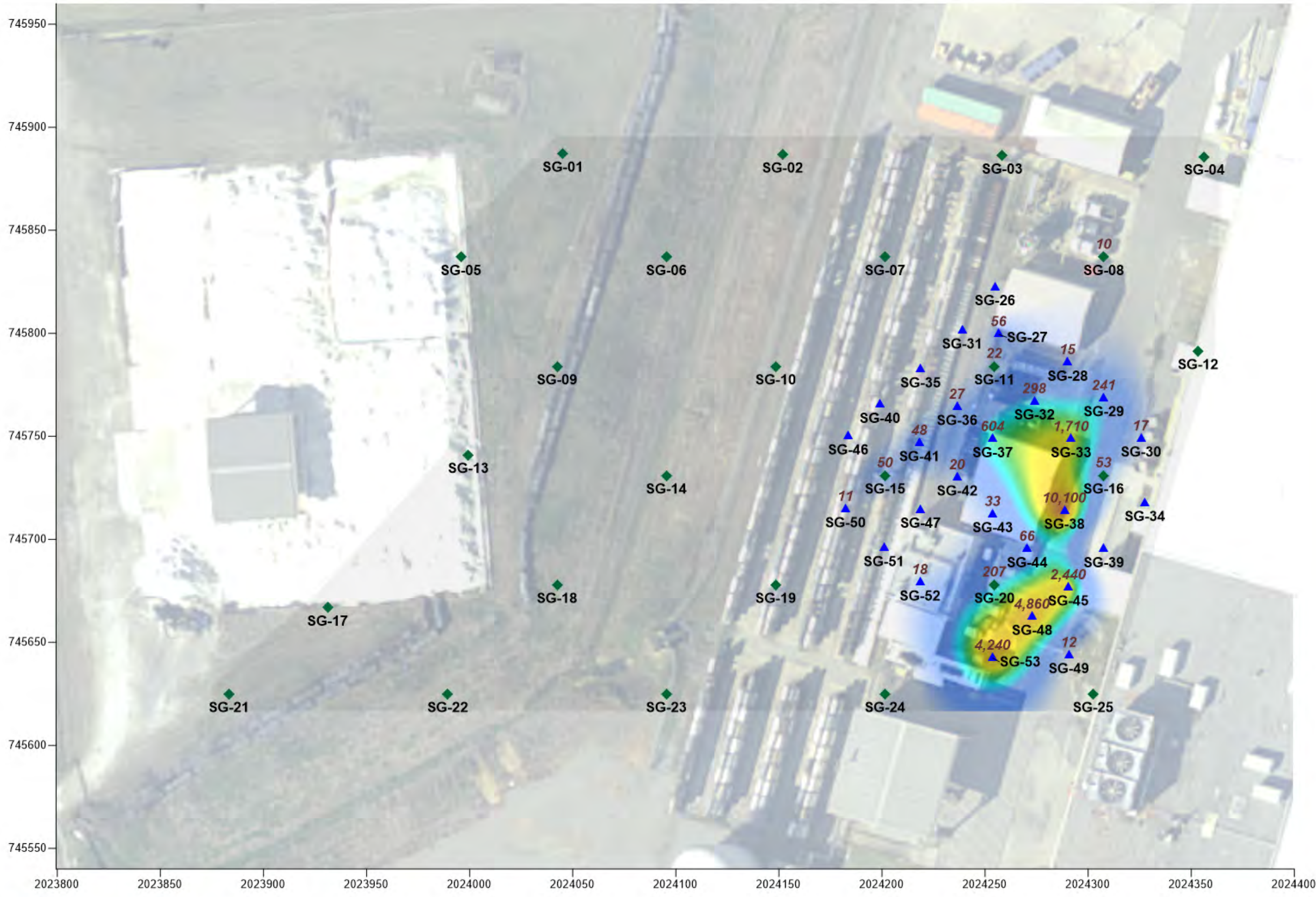
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 Beacon Project No. 5603, February 2021

LEGEND
 1,000 NANOGRAMS/SAMPLER
 ▲ PASSIVE SOIL-GAS SAMPLE LOCATION (December 2020)
 ◆ PASSIVE SOIL-GAS SAMPLE LOCATION (February 2021)



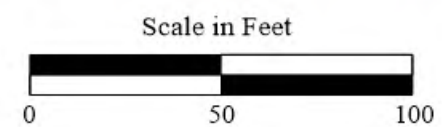
System: State Plane
 Zone: South Carolina
 Datum: NAD 1983
 Coordinate Units: Feet

Figure 2
 Passive Soil-Gas Survey
 cis-1,2-Dichloroethene
 Westinghouse CFFF
 Hopkins, SC



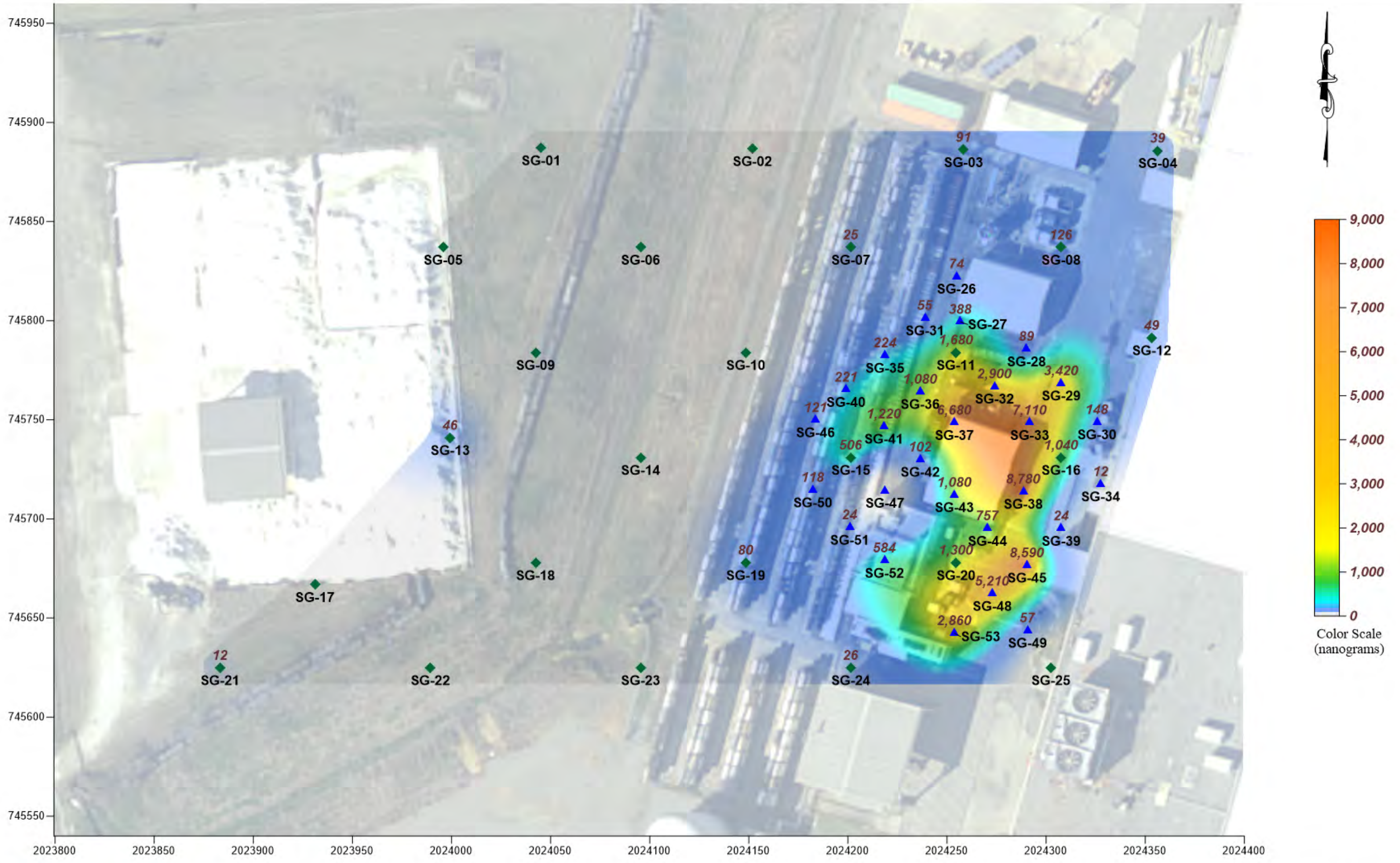
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 2203A Commerce Road, Suite 1, Forest Hill, MD 21050 USA
 www.Beacon-USA.com 1-410-838-8780
 Beacon Project No. 5603, February 2021

LEGEND
 1,000 NANOGRAMS/SAMPLER
 ▲ PASSIVE SOIL-GAS SAMPLE LOCATION (December 2020)
 ◆ PASSIVE SOIL-GAS SAMPLE LOCATION (February 2021)



System: State Plane
 Zone: South Carolina
 Datum: NAD 1983
 Coordinate Units: Feet

Figure 3
 Passive Soil-Gas Survey
 Trichloroethene
 Westinghouse CFFF
 Hopkins, SC



Attachment D

Tabulated Groundwater Screening Results L-50, L-51 and L-56 through L-58

February 2021 Groundwater Screening Analytical Results
 Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Location	L-50	L-50	L-50	L-51	L-51	L-56	L-56	L-56	L-57	L-57	L-58	L-58	L-58
Date	2/19/2021	2/19/2021	2/19/2021	2/22/2021	2/22/2021	2/17/2021	2/17/2021	2/17/2021	2/16/2021	2/17/2021	2/16/2021	2/16/2021	2/16/2021
Type	N	N	FD	N	N	N	N	N	N	N	N	N	N
Depth (feet)	20-24	46-50	46-50	21-25	41-45	22-26	33-37	41-45	26-30	42-46	23-27	31-35	40-44
Analyte	MCL												
1,1-Dichloroethene	7	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-Dichloroethane	5	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
cis-1,2-Dichloroethene	70	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Tetrachloroethene	5	22	9	8.7	87	110	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
trans-1,2-Dichloroethene	100	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Trichloroethene	5	< 1 U	< 1 U	< 1 U	2.2	1.8	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Vinyl chloride	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U

Notes

Concentrations in micrograms per liter

N - normal sample

FD - field duplicate sample

MCL - Maximum Contaminant Level

Bold concentrations indicate detections

Concentrations in shaded cells exceed their MCL

U = not detected above reporting detection limit