



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-21-69

October 12, 2021

Subject: **September** 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 **September 2, 2021**. The following progress report is for work occurring from **September 1- 30, 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 to support the **Phase II RI** Work Plan:
 - Met with the Department on September 16 to discuss the status and next steps for the Remedial Investigation.

- Completed the following to support **East Lagoon Closure** Activities:
 - Removed the equipment access roadway to the former East Lagoon area.
 - Completed the final (as built) elevation surveys of the former East Lagoon area.
 - Submitted a written closure report (LTR-RAC-21-67 dated September 29, 2021) to the department.
 - Completed the following to support **Calcium Fluoride (CaF₂) Pad Restoration** Activities:
 - Completed double stacking of bagged calcium fluoride material to optimize storage capacity.
 - CaF₂ bagging operations are ~ 55% complete.
 - Completed the following to support **Cultural Resources Survey** Activities:
 - Completed the on-site field work to support the survey including visual assessments for resources and shovel tests.
 - Completed a comprehensive re-assessment of the Denley Cemetery area by qualified archaeologists, using Ground Penetrating Radar (GPR) and detailed mapping tools.
- (b) Results of sampling and tests:
- On August 31, 2021, Westinghouse collected two soil sampling within the stormwater ditch at or near the former discharge locations of the (1) terra cotta French drain system and (2) buried stainless steel pipe. Final analytical results were received from the external laboratory in September. The sample results were above residential screening levels for radionuclides, indicating some impact to the area; however, both samples were well below the allowable industrial use screening levels applicable to current operations. A summary data table and the laboratory reports are included as **Attachment A** of this monthly report.
- (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:
- Begin work on item #6 of the Consent Agreement, the Remedial Investigation Report. CFFF will propose an outline and schedule to complete the report for DHEC review.
 - Host a site visit with DHEC on October 5, 2021 to observe East Lagoon closure and groundwater sampling activities.
 - Host final inspection of East Lagoon closure by the DHEC Regional Office on October 7, 2021.
 - Conduct semi-annual groundwater sampling (118 wells).
 - Install pressure transducers in W-60, W-61, and W-104 in October or November, as soon as the necessary equipment arrives.
- (d) Percentage of work completed and any delays encountered or anticipated:
- 100% of Phase II **field** work scope completed.
 - Currently there are no anticipated delays.

Respectfully,



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

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

Attachment A: Soil Sampling Results: (1) terra cotta French drain system and (2) buried stainless steel pipe

Soil Sampling Results: (1) terra cotta French drain system and (2) buried stainless steel pipe

Sample ID	Analyte (pCi/g)									SOF	SOF		mg/kg		mg/kg
	U-234		U-235 DL	U-235	U-238	Sum U		Tc-99 DL	Tc-99	Resid.	Ind.		Fluoride		PCE
	WO 554631														
EL-TER-French Drain Discharge	21.50	<	0.074	0.968	4.63	27.10	<	0.585	10.5	2.66	0.06	=	12.80	<	0.00087
EL-SS-Approx Discharge	12.1	<	0.196	0.614	2.96	15.67	<	0.656	0	1.22	0.04	=	2.82	<	0.00115

Notes:

Negative values reflected as zero

Residential Limits in Soil (per RA-433)

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



September 15, 2021

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

Re: East Lagoon Remediation Project
Work Order: 554631

Dear Ms. Teague:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 01, 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. 4523.

Sincerely,

Samuel Hogan
Project Manager

Purchase Order: 4500822910 Line 1
Chain of Custody: Soil Samples (EL Dis
Enclosures

GEL LABORATORIES LLC

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

**Certificate of Analysis Report
for**

WNUC010 Westinghouse Electric Company PO (4500822910)

Client SDG: 554631 GEL Work Order: 554631

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B The target analyte was detected in the associated blank.
- E Concentration of the target analyte exceeds the instrument calibration range
- J See case narrative for an explanation
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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



Reviewed by _____

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 15, 2021

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

Columbia, South Carolina 29205

Contact: Ms. Cynthia Teague
 Project: East Lagoon Remediation Project

Client Sample ID: EL-TER-French Drain Discharge	Project: WNUC01025
Sample ID: 554631001	Client ID: WNUC010
Matrix: Soil	
Collect Date: 31-AUG-21 08:59	
Receive Date: 01-SEP-21	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride and Nitrate "As Received"												
Fluoride		12.8	0.340	1.00	mg/kg	10.0	1	JLD1	09/03/21	1948	2170224	1
Nitrate-N	U	ND	0.330	1.00	mg/kg	10.0	1					
Mercury Analysis-CVAA												
SW846 7471B Mercury, Solid "As Received"												
Mercury		73.0	7.85	23.4	ug/kg	117	1	MTM1	09/07/21	1434	2170499	2
Metals Analysis-ICP												
SW846 3050B/6010D Metals, Solid "As Received"												
Aluminum		3430000	6320	18600	ug/kg	92.9	1	JWJ	09/08/21	1647	2169789	3
Antimony		4070	307	1860	ug/kg	92.9	1					
Arsenic	J	1150	465	2790	ug/kg	92.9	1					
Barium		22400	92.9	465	ug/kg	92.9	1					
Beryllium	U	ND	92.9	465	ug/kg	92.9	1					
Cadmium	U	ND	92.9	465	ug/kg	92.9	1					
Calcium		499000	7430	23200	ug/kg	92.9	1					
Chromium		9730	139	929	ug/kg	92.9	1					
Cobalt		1310	139	465	ug/kg	92.9	1					
Copper		4350	279	1860	ug/kg	92.9	1					
Iron		6150000	7430	23200	ug/kg	92.9	1					
Lead		7340	307	1860	ug/kg	92.9	1					
Magnesium		198000	7900	27900	ug/kg	92.9	1					
Manganese		67800	186	929	ug/kg	92.9	1					
Nickel		4760	139	465	ug/kg	92.9	1					
Potassium		132000	5950	23200	ug/kg	92.9	1					
Selenium	U	ND	465	2790	ug/kg	92.9	1					
Silver	U	ND	92.9	465	ug/kg	92.9	1					
Sodium		23900	6510	23200	ug/kg	92.9	1					
Thallium	U	ND	465	1860	ug/kg	92.9	1					
Vanadium		12000	92.9	465	ug/kg	92.9	1					
Zinc		68100	372	1860	ug/kg	92.9	1					
Semi-Volatile-GC/MS												
SW846 8270D SVOA, Solid "As Received"												
1,1'-Biphenyl	U	ND	97.9	326	ug/kg	0.0326	1	JMB3	09/09/21	1320	2171319	4
1,2,4,5-Tetrachlorobenzene	U	ND	97.9	326	ug/kg	0.0326	1					
2,3,4,6-Tetrachlorophenol	U	ND	97.9	326	ug/kg	0.0326	1					
2,4,5-Trichlorophenol	U	ND	97.9	326	ug/kg	0.0326	1					

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Report Date: September 15, 2021

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

Columbia, South Carolina 29205

Contact: Ms. Cynthia Teague
Project: East Lagoon Remediation Project

Client Sample ID: EL-TER-French Drain Discharge
Sample ID: 554631001

Project: WNUC01025
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
SW846 8270D SVOA, Solid "As Received"												
2,4,6-Trichlorophenol	U	ND	97.9	326	ug/kg	0.0326	1					
2,4-Dichlorophenol	U	ND	97.9	326	ug/kg	0.0326	1					
2,4-Dimethylphenol	U	ND	97.9	326	ug/kg	0.0326	1					
2,4-Dinitrophenol	U	ND	97.9	653	ug/kg	0.0326	1					
2,4-Dinitrotoluene	U	ND	97.9	326	ug/kg	0.0326	1					
2,6-Dinitrotoluene	U	ND	97.9	326	ug/kg	0.0326	1					
2-Chloronaphthalene	U	ND	9.79	32.6	ug/kg	0.0326	1					
2-Chlorophenol	U	ND	97.9	326	ug/kg	0.0326	1					
2-Methyl-4,6-dinitrophenol	U	ND	97.9	326	ug/kg	0.0326	1					
2-Methylnaphthalene	U	ND	9.79	32.6	ug/kg	0.0326	1					
2-Nitrophenol	U	ND	97.9	326	ug/kg	0.0326	1					
3,3'-Dichlorobenzidine	U	ND	97.9	326	ug/kg	0.0326	1					
4-Bromophenylphenylether	U	ND	97.9	326	ug/kg	0.0326	1					
4-Chloro-3-methylphenol	U	ND	131	326	ug/kg	0.0326	1					
4-Chloroaniline	U	ND	97.9	326	ug/kg	0.0326	1					
4-Chlorophenylphenylether	U	ND	97.9	326	ug/kg	0.0326	1					
4-Nitrophenol	U	ND	97.9	326	ug/kg	0.0326	1					
Acenaphthene	U	ND	9.79	32.6	ug/kg	0.0326	1					
Acenaphthylene	U	ND	9.79	32.6	ug/kg	0.0326	1					
Acetophenone	U	ND	97.9	326	ug/kg	0.0326	1					
Anthracene	U	ND	9.79	32.6	ug/kg	0.0326	1					
Atrazine	U	ND	131	326	ug/kg	0.0326	1					
Benzaldehyde	U	ND	97.9	326	ug/kg	0.0326	1					
Benzo(a)anthracene	J	29.0	9.79	32.6	ug/kg	0.0326	1					
Benzo(a)pyrene		48.3	9.79	32.6	ug/kg	0.0326	1					
Benzo(b)fluoranthene		106	9.79	32.6	ug/kg	0.0326	1					
Benzo(ghi)perylene		48.3	9.79	32.6	ug/kg	0.0326	1					
Benzo(k)fluoranthene	J	27.7	9.79	32.6	ug/kg	0.0326	1					
Butylbenzylphthalate	U	ND	9.79	32.6	ug/kg	0.0326	1					
Caprolactam	U	ND	97.9	326	ug/kg	0.0326	1					
Carbazole	U	ND	9.79	32.6	ug/kg	0.0326	1					
Chrysene		57.4	9.79	32.6	ug/kg	0.0326	1					
Di-n-butylphthalate		33.0	9.79	32.6	ug/kg	0.0326	1					
Di-n-octylphthalate	J	11.7	9.79	32.6	ug/kg	0.0326	1					
Dibenzo(a,h)anthracene	J	13.4	9.79	32.6	ug/kg	0.0326	1					
Dibenzofuran	U	ND	97.9	326	ug/kg	0.0326	1					

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Certificate of Analysis

Report Date: September 15, 2021

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

Columbia, South Carolina 29205

Contact: Ms. Cynthia Teague
Project: East Lagoon Remediation Project

Client Sample ID: EL-TER-French Drain Discharge
Sample ID: 554631001

Project: WNUC01025
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
SW846 8270D SVOA, Solid "As Received"												
Diethylphthalate	U	ND	9.79	32.6	ug/kg	0.0326	1					
Dimethylphthalate	U	ND	9.79	32.6	ug/kg	0.0326	1					
Diphenylamine	U	ND	97.9	326	ug/kg	0.0326	1					
Fluoranthene		74.1	9.79	32.6	ug/kg	0.0326	1					
Fluorene	U	ND	9.79	32.6	ug/kg	0.0326	1					
Hexachlorobenzene	U	ND	97.9	326	ug/kg	0.0326	1					
Hexachlorobutadiene	U	ND	97.9	326	ug/kg	0.0326	1					
Hexachlorocyclopentadiene	U	ND	97.9	326	ug/kg	0.0326	1					
Hexachloroethane	U	ND	97.9	326	ug/kg	0.0326	1					
Indeno(1,2,3-cd)pyrene		43.4	9.79	32.6	ug/kg	0.0326	1					
Isophorone	U	ND	97.9	326	ug/kg	0.0326	1					
N-Nitrosodipropylamine	U	ND	97.9	326	ug/kg	0.0326	1					
Naphthalene	U	ND	9.79	32.6	ug/kg	0.0326	1					
Nitrobenzene	U	ND	97.9	326	ug/kg	0.0326	1					
Pentachlorophenol	U	ND	97.9	326	ug/kg	0.0326	1					
Phenanthrene	J	20.6	9.79	32.6	ug/kg	0.0326	1					
Phenol	U	ND	97.9	326	ug/kg	0.0326	1					
Pyrene		77.7	9.79	32.6	ug/kg	0.0326	1					
bis(2-Chloro-1-methylethyl)ether	U	ND	97.9	326	ug/kg	0.0326	1					
bis(2-Chloroethoxy)methane	U	ND	97.9	326	ug/kg	0.0326	1					
bis(2-Chloroethyl) ether	U	ND	97.9	326	ug/kg	0.0326	1					
bis(2-Ethylhexyl)phthalate		37.2	9.79	32.6	ug/kg	0.0326	1					
m,p-Cresols	U	ND	97.9	326	ug/kg	0.0326	1					
m-Nitroaniline	U	ND	97.9	326	ug/kg	0.0326	1					
o-Cresol	U	ND	97.9	326	ug/kg	0.0326	1					
o-Nitroaniline	U	ND	108	326	ug/kg	0.0326	1					
p-Nitroaniline	U	ND	97.9	326	ug/kg	0.0326	1					
Volatile Organics												
SW846 8260D Volatiles, Solid "As Received"												
1,1,1-Trichloroethane	U	ND	0.291	0.873	ug/kg	0.873	1	JM6	09/14/21	0510	2173220	5
1,1,2,2-Tetrachloroethane	U	ND	0.291	0.873	ug/kg	0.873	1					
1,1,2-Trichloroethane	U	ND	0.291	0.873	ug/kg	0.873	1					
1,1-Dichloroethane	U	ND	0.291	0.873	ug/kg	0.873	1					
1,1-Dichloroethylene	U	ND	0.291	0.873	ug/kg	0.873	1					
1,2,3-Trichlorobenzene	U	ND	0.291	0.873	ug/kg	0.873	1					
1,2,4-Trichlorobenzene	U	ND	0.291	0.873	ug/kg	0.873	1					

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Certificate of Analysis

Report Date: September 15, 2021

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

Contact: Columbia, South Carolina 29205
Ms. Cynthia Teague
Project: East Lagoon Remediation Project

Client Sample ID: EL-TER-French Drain Discharge
Sample ID: 554631001

Project: WNUC01025
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Volatile Organics											
SW846 8260D Volatiles, Solid "As Received"											
1,2-Dibromo-3-chloropropane	U	ND	0.436	0.873	ug/kg	0.873	1				
1,2-Dibromoethane	U	ND	0.291	0.873	ug/kg	0.873	1				
1,2-Dichlorobenzene	U	ND	0.291	0.873	ug/kg	0.873	1				
1,2-Dichloroethane	U	ND	0.291	0.873	ug/kg	0.873	1				
1,2-Dichloropropane	U	ND	0.291	0.873	ug/kg	0.873	1				
1,3-Dichlorobenzene	U	ND	0.291	0.873	ug/kg	0.873	1				
1,4-Dichlorobenzene	U	ND	0.291	0.873	ug/kg	0.873	1				
1,4-Dioxane	U	ND	14.5	43.6	ug/kg	0.873	1				
2-Butanone	U	ND	1.45	4.36	ug/kg	0.873	1				
2-Hexanone	U	ND	1.45	4.36	ug/kg	0.873	1				
4-Methyl-2-pentanone	U	ND	1.45	4.36	ug/kg	0.873	1				
Acetone	U	ND	1.45	4.36	ug/kg	0.873	1				
Benzene		1.33	0.291	0.873	ug/kg	0.873	1				
Bromochloromethane	U	ND	0.291	0.873	ug/kg	0.873	1				
Bromodichloromethane	U	ND	0.291	0.873	ug/kg	0.873	1				
Bromoform	U	ND	0.291	0.873	ug/kg	0.873	1				
Bromomethane	U	ND	0.291	0.873	ug/kg	0.873	1				
Carbon disulfide	U	ND	1.45	4.36	ug/kg	0.873	1				
Carbon tetrachloride	U	ND	0.291	0.873	ug/kg	0.873	1				
Chlorobenzene	U	ND	0.291	0.873	ug/kg	0.873	1				
Chloroethane	U	ND	0.291	0.873	ug/kg	0.873	1				
Chloroform	U	ND	0.291	0.873	ug/kg	0.873	1				
Chloromethane	U	ND	0.291	0.873	ug/kg	0.873	1				
Cyclohexane	U	ND	0.291	0.873	ug/kg	0.873	1				
Dibromochloromethane	U	ND	0.291	0.873	ug/kg	0.873	1				
Dichlorodifluoromethane	U	ND	0.291	0.873	ug/kg	0.873	1				
Ethylbenzene		4.63	0.291	0.873	ug/kg	0.873	1				
Isopropylbenzene	J	0.777	0.291	0.873	ug/kg	0.873	1				
Methyl acetate	U	ND	1.45	4.36	ug/kg	0.873	1				
Methylcyclohexane	U	ND	0.291	0.873	ug/kg	0.873	1				
Methylene chloride	U	ND	1.45	4.36	ug/kg	0.873	1				
Styrene	U	ND	0.291	0.873	ug/kg	0.873	1				
Tetrachloroethylene	U	ND	0.291	0.873	ug/kg	0.873	1				
Toluene		17.8	0.291	0.873	ug/kg	0.873	1				
Trichloroethylene	U	ND	0.291	0.873	ug/kg	0.873	1				
Trichlorofluoromethane	U	ND	0.291	0.873	ug/kg	0.873	1				

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 15, 2021

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

Contact: Columbia, South Carolina 29205
Project: Ms. Cynthia Teague
East Lagoon Remediation Project

Client Sample ID: EL-TER-French Drain Discharge Project: WNUC01025
Sample ID: 554631001 Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D Volatiles, Solid "As Received"												
Trichlorotrifluoroethane	U	ND	1.45	4.36	ug/kg	0.873	1					
Vinyl chloride	U	ND	0.291	0.873	ug/kg	0.873	1					
cis-1,2-Dichloroethylene	U	ND	0.291	0.873	ug/kg	0.873	1					
cis-1,3-Dichloropropylene	U	ND	0.291	0.873	ug/kg	0.873	1					
m,p-Xylenes		24.5	0.582	1.75	ug/kg	0.873	1					
o-Xylene		14.4	0.291	0.873	ug/kg	0.873	1					
tert-Butyl methyl ether	U	ND	0.291	0.873	ug/kg	0.873	1					
trans-1,2-Dichloroethylene	U	ND	0.291	0.873	ug/kg	0.873	1					
trans-1,3-Dichloropropylene	U	ND	0.291	0.873	ug/kg	0.873	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep	CD3	09/03/21	1655	2169786
SW846 3541	Prep Method 3541 8270D BNA for Soil	CB1	09/08/21	0813	2171315
SW846 3541	Prep Method 3541 8270D BNA for Soil	JM3	09/03/21	0857	2170047
SW846 5035	5035 Prep	JM6	09/13/21	1451	2173219
SW846 7471B Prep	SW846 7471B Mercury Prep Soil	AXS5	09/03/21	1325	2170498
SW846 9056A	SW846 9056A Total Anions in Soil	CJ2	09/02/21	1939	2170223

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	
2	SW846 7471B	
3	SW846 3050B/6010D	
4	SW846 3541/8270D	
5	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	SW846 8270D SVOA, Solid "As Received"	997 ug/kg	1630	61	(26%-118%)
Nitrobenzene-d5	SW846 8270D SVOA, Solid "As Received"	1010 ug/kg	1630	62	(28%-110%)
p-Terphenyl-d14	SW846 8270D SVOA, Solid "As Received"	1370 ug/kg	1630	84	(26%-130%)
2,4,6-Tribromophenol	SW846 8270D SVOA, Solid "As Received"	2430 ug/kg	3260	74	(26%-128%)
2-Fluorophenol	SW846 8270D SVOA, Solid "As Received"	1790 ug/kg	3260	55	(30%-108%)
Phenol-d5	SW846 8270D SVOA, Solid "As Received"	2170 ug/kg	3260	67	(29%-116%)
1,2-Dichloroethane-d4	SW846 8260D Volatiles, Solid "As Received"	44.1 ug/kg	50.0	101	(76%-127%)
Bromofluorobenzene	SW846 8260D Volatiles, Solid "As Received"	43.2 ug/kg	50.0	99	(70%-130%)

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Certificate of Analysis

Report Date: September 15, 2021

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: East Lagoon Remediation Project

Client Sample ID: EL-TER-French Drain Discharge
Sample ID: 554631001

Project: WNUC01025
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Toluene-d8	SW846	8260D Volatiles, Solid "As Received"			42.1 ug/kg		50.0		96		(81%-120%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 15, 2021

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

Columbia, South Carolina 29205

Contact: Ms. Cynthia Teague
Project: East Lagoon Remediation Project

Client Sample ID: EL-SS-Approx Discharge	Project: WNUC01025
Sample ID: 554631002	Client ID: WNUC010
Matrix: Soil	
Collect Date: 31-AUG-21 10:39	
Receive Date: 01-SEP-21	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride and Nitrate "As Received"												
Fluoride		2.82	0.338	0.995	mg/kg	9.95	1	JLD1	09/03/21	1021	2170224	1
Nitrate-N	U	ND	0.328	0.995	mg/kg	9.95	1					
Mercury Analysis-CVAA												
SW846 7471B Mercury, Solid "As Received"												
Mercury		59.6	7.44	22.2	ug/kg	111	1	MTM1	09/07/21	1435	2170499	2
Metals Analysis-ICP												
SW846 3050B/6010D Metals, Solid "As Received"												
Aluminum		2660000	6760	19900	ug/kg	99.4	1	JWJ	09/08/21	1659	2169789	3
Antimony		11800	328	1990	ug/kg	99.4	1					
Arsenic	J	1100	497	2980	ug/kg	99.4	1					
Barium		42100	99.4	497	ug/kg	99.4	1					
Beryllium	U	ND	99.4	497	ug/kg	99.4	1					
Cadmium	J	116	99.4	497	ug/kg	99.4	1					
Calcium		634000	7950	24900	ug/kg	99.4	1					
Chromium		55900	149	994	ug/kg	99.4	1					
Cobalt		2650	149	497	ug/kg	99.4	1					
Copper		16900	298	1990	ug/kg	99.4	1					
Iron		7260000	7950	24900	ug/kg	99.4	1					
Lead		10900	328	1990	ug/kg	99.4	1					
Magnesium		516000	8450	29800	ug/kg	99.4	1					
Manganese		382000	199	994	ug/kg	99.4	1					
Nickel		21900	149	497	ug/kg	99.4	1					
Potassium		128000	6360	24900	ug/kg	99.4	1					
Selenium	U	ND	497	2980	ug/kg	99.4	1					
Silver	U	ND	99.4	497	ug/kg	99.4	1					
Sodium	J	18500	6960	24900	ug/kg	99.4	1					
Thallium	U	ND	497	1990	ug/kg	99.4	1					
Vanadium		12800	99.4	497	ug/kg	99.4	1					
Zinc		129000	398	1990	ug/kg	99.4	1					
Semi-Volatile-GC/MS												
SW846 8270D SVOA, Solid "As Received"												
1,1'-Biphenyl	U	ND	494	1650	ug/kg	0.0330	5	JMB3	09/09/21	1352	2171319	4
1,2,4,5-Tetrachlorobenzene	U	ND	494	1650	ug/kg	0.0330	5					
2,3,4,6-Tetrachlorophenol	U	ND	494	1650	ug/kg	0.0330	5					
2,4,5-Trichlorophenol	U	ND	494	1650	ug/kg	0.0330	5					

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

Columbia, South Carolina 29205

Contact: Ms. Cynthia Teague
Project: East Lagoon Remediation Project

Client Sample ID: EL-SS-Approx Discharge
Sample ID: 554631002

Project: WNUC01025
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
SW846 8270D SVOA, Solid "As Received"												
2,4,6-Trichlorophenol	U	ND	494	1650	ug/kg	0.0330	5					
2,4-Dichlorophenol	U	ND	494	1650	ug/kg	0.0330	5					
2,4-Dimethylphenol	U	ND	494	1650	ug/kg	0.0330	5					
2,4-Dinitrophenol	U	ND	494	3300	ug/kg	0.0330	5					
2,4-Dinitrotoluene	U	ND	494	1650	ug/kg	0.0330	5					
2,6-Dinitrotoluene	U	ND	494	1650	ug/kg	0.0330	5					
2-Chloronaphthalene	U	ND	49.4	165	ug/kg	0.0330	5					
2-Chlorophenol	U	ND	494	1650	ug/kg	0.0330	5					
2-Methyl-4,6-dinitrophenol	U	ND	494	1650	ug/kg	0.0330	5					
2-Methylnaphthalene	U	ND	49.4	165	ug/kg	0.0330	5					
2-Nitrophenol	U	ND	494	1650	ug/kg	0.0330	5					
3,3'-Dichlorobenzidine	U	ND	494	1650	ug/kg	0.0330	5					
4-Bromophenylphenylether	U	ND	494	1650	ug/kg	0.0330	5					
4-Chloro-3-methylphenol	U	ND	659	1650	ug/kg	0.0330	5					
4-Chloroaniline	U	ND	494	1650	ug/kg	0.0330	5					
4-Chlorophenylphenylether	U	ND	494	1650	ug/kg	0.0330	5					
4-Nitrophenol	U	ND	494	1650	ug/kg	0.0330	5					
Acenaphthene	U	ND	49.4	165	ug/kg	0.0330	5					
Acenaphthylene	U	ND	49.4	165	ug/kg	0.0330	5					
Acetophenone	U	ND	494	1650	ug/kg	0.0330	5					
Anthracene	U	ND	49.4	165	ug/kg	0.0330	5					
Atrazine	U	ND	659	1650	ug/kg	0.0330	5					
Benzaldehyde	U	ND	494	1650	ug/kg	0.0330	5					
Benzo(a)anthracene		206	49.4	165	ug/kg	0.0330	5					
Benzo(a)pyrene		303	49.4	165	ug/kg	0.0330	5					
Benzo(b)fluoranthene		602	49.4	165	ug/kg	0.0330	5					
Benzo(ghi)perylene		279	49.4	165	ug/kg	0.0330	5					
Benzo(k)fluoranthene		193	49.4	165	ug/kg	0.0330	5					
Butylbenzylphthalate	U	ND	49.4	165	ug/kg	0.0330	5					
Caprolactam	U	ND	494	1650	ug/kg	0.0330	5					
Carbazole	U	ND	49.4	165	ug/kg	0.0330	5					
Chrysene		382	49.4	165	ug/kg	0.0330	5					
Di-n-butylphthalate	U	ND	49.4	165	ug/kg	0.0330	5					
Di-n-octylphthalate	U	ND	49.4	165	ug/kg	0.0330	5					
Dibenzo(a,h)anthracene	U	ND	49.4	165	ug/kg	0.0330	5					
Dibenzofuran	U	ND	494	1650	ug/kg	0.0330	5					

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Certificate of Analysis

Report Date: September 15, 2021

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

Columbia, South Carolina 29205

Contact: Ms. Cynthia Teague
Project: East Lagoon Remediation Project

Client Sample ID: EL-SS-Approx Discharge	Project: WNUC01025
Sample ID: 554631002	Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
SW846 8270D SVOA, Solid "As Received"												
Diethylphthalate	U	ND	49.4	165	ug/kg	0.0330	5					
Dimethylphthalate	U	ND	49.4	165	ug/kg	0.0330	5					
Diphenylamine	U	ND	494	1650	ug/kg	0.0330	5					
Fluoranthene		496	49.4	165	ug/kg	0.0330	5					
Fluorene	U	ND	49.4	165	ug/kg	0.0330	5					
Hexachlorobenzene	U	ND	494	1650	ug/kg	0.0330	5					
Hexachlorobutadiene	U	ND	494	1650	ug/kg	0.0330	5					
Hexachlorocyclopentadiene	U	ND	494	1650	ug/kg	0.0330	5					
Hexachloroethane	U	ND	494	1650	ug/kg	0.0330	5					
Indeno(1,2,3-cd)pyrene		285	49.4	165	ug/kg	0.0330	5					
Isophorone	U	ND	494	1650	ug/kg	0.0330	5					
N-Nitrosodipropylamine	U	ND	494	1650	ug/kg	0.0330	5					
Naphthalene	U	ND	49.4	165	ug/kg	0.0330	5					
Nitrobenzene	U	ND	494	1650	ug/kg	0.0330	5					
Pentachlorophenol	U	ND	494	1650	ug/kg	0.0330	5					
Phenanthrene	J	150	49.4	165	ug/kg	0.0330	5					
Phenol	U	ND	494	1650	ug/kg	0.0330	5					
Pyrene		503	49.4	165	ug/kg	0.0330	5					
bis(2-Chloro-1-methylethyl)ether	U	ND	494	1650	ug/kg	0.0330	5					
bis(2-Chloroethoxy)methane	U	ND	494	1650	ug/kg	0.0330	5					
bis(2-Chloroethyl) ether	U	ND	494	1650	ug/kg	0.0330	5					
bis(2-Ethylhexyl)phthalate	J	102	49.4	165	ug/kg	0.0330	5					
m,p-Cresols	U	ND	494	1650	ug/kg	0.0330	5					
m-Nitroaniline	U	ND	494	1650	ug/kg	0.0330	5					
o-Cresol	U	ND	494	1650	ug/kg	0.0330	5					
o-Nitroaniline	U	ND	544	1650	ug/kg	0.0330	5					
p-Nitroaniline	U	ND	494	1650	ug/kg	0.0330	5					
Volatile Organics												
SW846 8260D Volatiles, Solid "As Received"												
1,1,1-Trichloroethane	U	ND	0.384	1.15	ug/kg	1.15	1	JM6	09/13/21	1116	2173220	5
1,1,2,2-Tetrachloroethane	U	ND	0.384	1.15	ug/kg	1.15	1					
1,1,2-Trichloroethane	U	ND	0.384	1.15	ug/kg	1.15	1					
1,1-Dichloroethane	U	ND	0.384	1.15	ug/kg	1.15	1					
1,1-Dichloroethylene	U	ND	0.384	1.15	ug/kg	1.15	1					
1,2,3-Trichlorobenzene	U	ND	0.384	1.15	ug/kg	1.15	1					
1,2,4-Trichlorobenzene	U	ND	0.384	1.15	ug/kg	1.15	1					

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Certificate of Analysis

Report Date: September 15, 2021

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: East Lagoon Remediation Project

Client Sample ID: EL-SS-Approx Discharge
Sample ID: 554631002

Project: WNUC01025
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Volatile Organics											
SW846 8260D Volatiles, Solid "As Received"											
1,2-Dibromo-3-chloropropane	U	ND	0.576	1.15	ug/kg	1.15	1				
1,2-Dibromoethane	U	ND	0.384	1.15	ug/kg	1.15	1				
1,2-Dichlorobenzene	U	ND	0.384	1.15	ug/kg	1.15	1				
1,2-Dichloroethane	U	ND	0.384	1.15	ug/kg	1.15	1				
1,2-Dichloropropane	U	ND	0.384	1.15	ug/kg	1.15	1				
1,3-Dichlorobenzene	U	ND	0.384	1.15	ug/kg	1.15	1				
1,4-Dichlorobenzene	U	ND	0.384	1.15	ug/kg	1.15	1				
1,4-Dioxane	U	ND	19.2	57.6	ug/kg	1.15	1				
2-Butanone	U	ND	1.92	5.76	ug/kg	1.15	1				
2-Hexanone	U	ND	1.92	5.76	ug/kg	1.15	1				
4-Methyl-2-pentanone	U	ND	1.92	5.76	ug/kg	1.15	1				
Acetone		16.4	1.92	5.76	ug/kg	1.15	1				
Benzene	U	ND	0.384	1.15	ug/kg	1.15	1				
Bromochloromethane	U	ND	0.384	1.15	ug/kg	1.15	1				
Bromodichloromethane	U	ND	0.384	1.15	ug/kg	1.15	1				
Bromoform	U	ND	0.384	1.15	ug/kg	1.15	1				
Bromomethane	U	ND	0.384	1.15	ug/kg	1.15	1				
Carbon disulfide	U	ND	1.92	5.76	ug/kg	1.15	1				
Carbon tetrachloride	U	ND	0.384	1.15	ug/kg	1.15	1				
Chlorobenzene	U	ND	0.384	1.15	ug/kg	1.15	1				
Chloroethane	U	ND	0.384	1.15	ug/kg	1.15	1				
Chloroform	U	ND	0.384	1.15	ug/kg	1.15	1				
Chloromethane	U	ND	0.384	1.15	ug/kg	1.15	1				
Cyclohexane	U	ND	0.384	1.15	ug/kg	1.15	1				
Dibromochloromethane	U	ND	0.384	1.15	ug/kg	1.15	1				
Dichlorodifluoromethane	U	ND	0.384	1.15	ug/kg	1.15	1				
Ethylbenzene	U	ND	0.384	1.15	ug/kg	1.15	1				
Isopropylbenzene	U	ND	0.384	1.15	ug/kg	1.15	1				
Methyl acetate	U	ND	1.92	5.76	ug/kg	1.15	1				
Methylcyclohexane	U	ND	0.384	1.15	ug/kg	1.15	1				
Methylene chloride	U	ND	1.92	5.76	ug/kg	1.15	1				
Styrene	U	ND	0.384	1.15	ug/kg	1.15	1				
Tetrachloroethylene	U	ND	0.384	1.15	ug/kg	1.15	1				
Toluene	U	ND	0.384	1.15	ug/kg	1.15	1				
Trichloroethylene	U	ND	0.384	1.15	ug/kg	1.15	1				
Trichlorofluoromethane	U	ND	0.384	1.15	ug/kg	1.15	1				

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Certificate of Analysis

Report Date: September 15, 2021

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

Contact: Columbia, South Carolina 29205
Project: Ms. Cynthia Teague
East Lagoon Remediation Project

Client Sample ID: EL-SS-Approx Discharge	Project: WNUC01025
Sample ID: 554631002	Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D Volatiles, Solid "As Received"												
Trichlorotrifluoroethane	U	ND	1.92	5.76	ug/kg	1.15	1					
Vinyl chloride	U	ND	0.384	1.15	ug/kg	1.15	1					
cis-1,2-Dichloroethylene	U	ND	0.384	1.15	ug/kg	1.15	1					
cis-1,3-Dichloropropylene	U	ND	0.384	1.15	ug/kg	1.15	1					
m,p-Xylenes	U	ND	0.768	2.30	ug/kg	1.15	1					
o-Xylene	U	ND	0.384	1.15	ug/kg	1.15	1					
tert-Butyl methyl ether	U	ND	0.384	1.15	ug/kg	1.15	1					
trans-1,2-Dichloroethylene	U	ND	0.384	1.15	ug/kg	1.15	1					
trans-1,3-Dichloropropylene	U	ND	0.384	1.15	ug/kg	1.15	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep	CD3	09/03/21	1655	2169786
SW846 3541	Prep Method 3541 8270D BNA for Soil	CB1	09/08/21	0813	2171315
SW846 3541	Prep Method 3541 8270D BNA for Soil	JM3	09/03/21	0857	2170047
SW846 5035	5035 Prep	JM6	09/13/21	0950	2173219
SW846 7471B Prep	SW846 7471B Mercury Prep Soil	AXS5	09/03/21	1325	2170498
SW846 9056A	SW846 9056A Total Anions in Soil	CJ2	09/02/21	1939	2170223

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	
2	SW846 7471B	
3	SW846 3050B/6010D	
4	SW846 3541/8270D	
5	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	SW846 8270D SVOA, Solid "As Received"	897 ug/kg	1650	54	(26%-118%)
Nitrobenzene-d5	SW846 8270D SVOA, Solid "As Received"	832 ug/kg	1650	51	(28%-110%)
p-Terphenyl-d14	SW846 8270D SVOA, Solid "As Received"	971 ug/kg	1650	59	(26%-130%)
2,4,6-Tribromophenol	SW846 8270D SVOA, Solid "As Received"	1370 ug/kg	3300	42	(26%-128%)
2-Fluorophenol	SW846 8270D SVOA, Solid "As Received"	1450 ug/kg	3300	44	(30%-108%)
Phenol-d5	SW846 8270D SVOA, Solid "As Received"	1590 ug/kg	3300	48	(29%-116%)
1,2-Dichloroethane-d4	SW846 8260D Volatiles, Solid "As Received"	61.6 ug/kg	50.0	107	(76%-127%)
Bromofluorobenzene	SW846 8260D Volatiles, Solid "As Received"	60.3 ug/kg	50.0	105	(70%-130%)

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Certificate of Analysis

Report Date: September 15, 2021

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

Columbia, South Carolina 29205
Contact: Ms. Cynthia Teague
Project: East Lagoon Remediation Project

Client Sample ID: EL-SS-Approx Discharge
Sample ID: 554631002

Project: WNUC01025
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Toluene-d8	SW846	8260D Volatiles, Solid "As Received"			56.5 ug/kg		50.0		98		(81%-120%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

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

Columbia, South Carolina 29205

Report Date: September 15, 2021

Contact: Ms. Cynthia Teague

Project: East Lagoon Remediation Project

Client Sample ID: EL-TER-French Drain Discharge
Sample ID: 554631001
Matrix: Soil
Collect Date: 31-AUG-21
Receive Date: 01-SEP-21
Collector: Client
Moisture: 19.5%

Project: WNUC01025
Client ID: WNUC010

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

Alphaspec U, Soil "As Received"

Uranium-233/234		21.5	+/-1.29	0.270	+/-2.55	0.500	pCi/g			MP2	09/07/21	1327	2169807	1
Uranium-235/236		0.968	+/-0.310	0.0744	+/-0.325	0.500	pCi/g							
Uranium-238		4.63	+/-0.607	0.225	+/-0.769	0.500	pCi/g							

Rad Liquid Scintillation Analysis

Liquid Scint Tc99, Soil "As Received"

Technetium-99		10.5	+/-0.648	0.585	+/-1.37	1.00	pCi/g			JJ3	09/07/21	1235	2169727	2
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXB7	09/01/21	1731	2169720

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil "As Received"	2169807	92.1	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"	2169727	95.4	(15%-125%)

GEL LABORATORIES LLC

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

Columbia, South Carolina 29205

Report Date: September 15, 2021

Contact: Ms. Cynthia Teague

Project: East Lagoon Remediation Project

Client Sample ID: EL-TER-French Drain Discharge
Sample ID: 554631001

Project: WNUC01025
Client ID: WNUC010

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Surrogate/Tracer Recovery	Test													
								Batch ID	Recovery%				Acceptable Limits	

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Columbia, South Carolina 29205

Report Date: September 15, 2021

Contact: Ms. Cynthia Teague

Project: East Lagoon Remediation Project

Client Sample ID: EL-SS-Approx Discharge

Project: WNUC01025

Sample ID: 554631002

Client ID: WNUC010

Matrix: Soil

Collect Date: 31-AUG-21

Receive Date: 01-SEP-21

Collector: Client

Moisture: 43.6%

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
<i>Alphaspec U, Soil "As Received"</i>														
Uranium-233/234		12.1	+/-0.960	0.267	+/-1.65	0.500	pCi/g			MP2	09/07/21	1327	2169807	1
Uranium-235/236		0.614	+/-0.256	0.196	+/-0.265	0.500	pCi/g							
Uranium-238		2.96	+/-0.480	0.201	+/-0.579	0.500	pCi/g							
Rad Liquid Scintillation Analysis														
<i>Liquid Scint Tc99, Soil "As Received"</i>														
Technetium-99	U	-0.184	+/-0.367	0.656	+/-0.367	1.00	pCi/g			JJ3	09/07/21	1337	2169727	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXB7	09/01/21	1731	2169720

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil "As Received"	2169807	69.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"	2169727	73.7	(15%-125%)

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Columbia, South Carolina 29205

Report Date: September 15, 2021

Contact: Ms. Cynthia Teague

Project: East Lagoon Remediation Project

Client Sample ID: EL-SS-Approx Discharge
Sample ID: 554631002

Project: WNUC01025
Client ID: WNUC010

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Surrogate/Tracer Recovery	Test							Batch ID	Recovery%	Acceptable Limits				

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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QC Summary

Report Date: September 15, 2021

Page 1 of 55

Westinghouse Electric Company, LLC

PO Drawer R
Columbia, South Carolina

Contact: Ms. Cynthia Teague

Workorder: 554631

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2170224										
QC1204902403	554631001	DUP									
Fluoride		12.8		9.84	mg/kg	26.5		(0%-109%)	JLD1	09/03/21	09:21
Nitrate-N	U	ND	U	ND	mg/kg	N/A					
QC1204902401	LCS										
Fluoride	25.1			23.8	mg/kg		94.6	(90%-110%)		09/03/21	15:49
Nitrate-N	25.1			25.3	mg/kg		101	(90%-110%)			
QC1204902400	MB										
Fluoride			U	ND	mg/kg					09/03/21	15:20
Nitrate-N			U	ND	mg/kg						
QC1204902405	554631001	MS									
Fluoride	25.3	12.8		23.8	mg/kg		43.5*	(75%-125%)		09/03/21	09:51
Nitrate-N	25.3	U	ND	25.2	mg/kg		99.7	(75%-125%)			
Metals Analysis-ICP											
Batch	2169789										
QC1204901685	LCS										
Aluminum	490000			477000	ug/kg		97.4	(80%-120%)	JWJ	09/08/21	16:45
Antimony	49000			45800	ug/kg		93.3	(80%-120%)			
Arsenic	49000			45000	ug/kg		91.7	(80%-120%)			
Barium	49000			45300	ug/kg		92.3	(80%-120%)			

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QC Summary

Workorder: 554631

Page 2 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Metals Analysis-ICP											
Batch	2169789										
Beryllium	49000			48600	ug/kg		99.1	(80%-120%)	JWJ	09/08/21	16:45
Cadmium	49000			44900	ug/kg		91.5	(80%-120%)			
Calcium	490000			489000	ug/kg		99.8	(80%-120%)			
Chromium	49000			44400	ug/kg		90.5	(80%-120%)			
Cobalt	49000			44600	ug/kg		91.1	(80%-120%)			
Copper	49000			44500	ug/kg		90.8	(80%-120%)			
Iron	490000			493000	ug/kg		101	(80%-120%)			
Lead	49000			45500	ug/kg		92.8	(80%-120%)			
Magnesium	490000			502000	ug/kg		102	(80%-120%)			
Manganese	49000			44600	ug/kg		91	(80%-120%)			
Nickel	49000			44900	ug/kg		91.5	(80%-120%)			
Potassium	490000			486000	ug/kg		99.2	(80%-120%)			
Selenium	49000			45200	ug/kg		92.1	(80%-120%)			
Silver	9800			9030	ug/kg		92.1	(80%-120%)			
Sodium	490000			464000	ug/kg		94.7	(80%-120%)			

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QC Summary

Workorder: 554631

Page 3 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Metals Analysis-ICP											
Batch	2169789										
Thallium	49000			46700	ug/kg		95.2	(80%-120%)	JWJ	09/08/21	16:45
Vanadium	49000			44300	ug/kg		90.5	(80%-120%)			
Zinc	49000			44100	ug/kg		89.9	(80%-120%)			
QC1204901684	MB										
Aluminum			U	ND	ug/kg					09/08/21	16:41
Antimony			J	458	ug/kg						
Arsenic			U	ND	ug/kg						
Barium			U	ND	ug/kg						
Beryllium			U	ND	ug/kg						
Cadmium			U	ND	ug/kg						
Calcium			U	ND	ug/kg						
Chromium			U	ND	ug/kg						
Cobalt			U	ND	ug/kg						
Copper			U	ND	ug/kg						
Iron			U	ND	ug/kg						
Lead			U	ND	ug/kg						

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QC Summary

Workorder: 554631

Page 4 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Metals Analysis-ICP											
Batch	2169789										
Magnesium			U	ND	ug/kg				JWJ	09/08/21	16:41
Manganese			J	219	ug/kg						
Nickel			U	ND	ug/kg						
Potassium			J	7670	ug/kg						
Selenium			U	ND	ug/kg						
Silver			U	ND	ug/kg						
Sodium			U	ND	ug/kg						
Thallium			U	ND	ug/kg						
Vanadium			U	ND	ug/kg						
Zinc			U	ND	ug/kg						
QC1204901686 554631001 MS											
Aluminum	462000	3430000		7170000	ug/kg		N/A	(75%-125%)		09/08/21	16:51
Antimony	46200	4070		43000	ug/kg		84.2	(75%-125%)			
Arsenic	46200	J 1150		42400	ug/kg		89.3	(75%-125%)			
Barium	46200	22400		64600	ug/kg		91.3	(75%-125%)			
Beryllium	46200	U ND		45800	ug/kg		99.2	(75%-125%)			

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QC Summary

Workorder: 554631

Page 5 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Metals Analysis-ICP											
Batch	2169789										
Cadmium	46200	U	ND	41500	ug/kg		89.7	(75%-125%)	JWJ	09/08/21	16:51
Calcium	462000		499000	833000	ug/kg		72.2*	(75%-125%)			
Chromium	46200		9730	49100	ug/kg		85.1	(75%-125%)			
Cobalt	46200		1310	41900	ug/kg		87.8	(75%-125%)			
Copper	46200		4350	46700	ug/kg		91.7	(75%-125%)			
Iron	462000		6150000	6530000	ug/kg		N/A	(75%-125%)			
Lead	46200		7340	47200	ug/kg		86.3	(75%-125%)			
Magnesium	462000		198000	690000	ug/kg		106	(75%-125%)			
Manganese	46200		67800	83000	ug/kg		32.8*	(75%-125%)			
Nickel	46200		4760	52300	ug/kg		103	(75%-125%)			
Potassium	462000		132000	616000	ug/kg		105	(75%-125%)			
Selenium	46200	U	ND	40600	ug/kg		87.9	(75%-125%)			
Silver	9240	U	ND	9770	ug/kg		106	(75%-125%)			
Sodium	462000		23900	438000	ug/kg		89.5	(75%-125%)			
Thallium	46200	U	ND	42000	ug/kg		90.9	(75%-125%)			

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QC Summary

Workorder: 554631

Page 6 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Metals Analysis-ICP											
Batch	2169789										
Vanadium	46200	12000		54700	ug/kg		92.4	(75%-125%)	JWJ	09/08/21	16:51
Zinc	46200	68100		54000	ug/kg		0*	(75%-125%)			
QC1204901687 554631001 MSD											
Aluminum	464000	3430000		6440000	ug/kg	10.8	N/A	(0%-20%)		09/08/21	16:53
Antimony	46400	4070		42600	ug/kg	0.75	83.2	(0%-20%)			
Arsenic	46400	J 1150		41900	ug/kg	1.33	87.8	(0%-20%)			
Barium	46400	22400		62100	ug/kg	4.09	85.4	(0%-20%)			
Beryllium	46400	U ND		45100	ug/kg	1.58	97.3	(0%-20%)			
Cadmium	46400	U ND		40900	ug/kg	1.36	88.1	(0%-20%)			
Calcium	464000	499000		757000	ug/kg	9.53	55.6*	(0%-20%)			
Chromium	46400	9730		48000	ug/kg	2.17	82.6	(0%-20%)			
Cobalt	46400	1310		41400	ug/kg	1.06	86.5	(0%-20%)			
Copper	46400	4350		46200	ug/kg	1.14	90.2	(0%-20%)			
Iron	464000	6150000		6070000	ug/kg	7.31	N/A	(0%-20%)			
Lead	46400	7340		46200	ug/kg	2.25	83.7	(0%-20%)			
Magnesium	464000	198000		644000	ug/kg	6.76	96.3	(0%-20%)			

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QC Summary

Workorder: 554631

Page 7 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Metals Analysis-ICP											
Batch	2169789										
Manganese	46400	67800		80300	ug/kg	3.3	26.9*	(0%-20%)	JWJ	09/08/21	16:53
Nickel	46400	4760		51000	ug/kg	2.62	99.6	(0%-20%)			
Potassium	464000	132000		595000	ug/kg	3.45	99.9	(0%-20%)			
Selenium	46400	U	ND	39700	ug/kg	2.19	85.7	(0%-20%)			
Silver	9280	U	ND	9700	ug/kg	0.714	105	(0%-20%)			
Sodium	464000	23900		432000	ug/kg	1.34	87.9	(0%-20%)			
Thallium	46400	U	ND	41800	ug/kg	0.343	90.2	(0%-20%)			
Vanadium	46400	12000		53000	ug/kg	3.11	88.4	(0%-20%)			
Zinc	46400	68100		52300	ug/kg	3.22	0*	(0%-20%)			
QC1204905941 554631001 PS											
Calcium	5000	5370		10600	ug/L		105	(75%-125%)		09/08/21	17:39
Manganese	500	730		1240	ug/L		101	(75%-125%)			
Zinc	500	733		1220	ug/L		98.2	(75%-125%)			
QC1204901688 554631001 SDILT											
Aluminum		36900		7130	ug/L	3.34		(0%-20%)		09/08/21	16:56
Antimony		43.8	J	9.40	ug/L	7.3		(0%-20%)			
Arsenic	J	12.4	U	ND	ug/L	N/A		(0%-20%)			

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QC Summary

Workorder: 554631

Page 8 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Metals Analysis-ICP											
Batch	2169789										
Barium		241		46.8	ug/L	3.05		(0%-20%)	JWJ	09/08/21	16:56
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Calcium		5370		1080	ug/L	.32		(0%-20%)			
Chromium		105		21.1	ug/L	.927		(0%-20%)			
Cobalt		14.1	J	3.09	ug/L	9.72		(0%-20%)			
Copper		46.8	J	9.37	ug/L	.0887		(0%-20%)			
Iron		66200		12800	ug/L	3.22		(0%-20%)			
Lead		79.0	J	18.5	ug/L	17.1		(0%-20%)			
Magnesium		2130		419	ug/L	1.65		(0%-20%)			
Manganese		730		145	ug/L	.825		(0%-20%)			
Nickel		51.2		10.3	ug/L	.767		(0%-20%)			
Potassium		1420		319	ug/L	12.5		(0%-20%)			
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Silver	U	ND	U	ND	ug/L	N/A		(0%-20%)			

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QC Summary

Workorder: 554631

Page 9 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Metals Analysis-ICP											
Batch	2169789										
Sodium		258	U	ND	ug/L	N/A		(0%-20%)	JWJ	09/08/21	16:56
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Vanadium		129		26.0	ug/L	.854		(0%-20%)			
Zinc		733		167	ug/L	14.1		(0%-20%)			
Metals Analysis-Mercury											
Batch	2170499										
QC1204903058	552505001	DUP									
Mercury		43.5		38.5	ug/kg	12.3 ^		(+/-22.5)	MTM1	09/07/21	13:50
QC1204903057	LCS										
Mercury	226			232	ug/kg		103	(80%-120%)		09/07/21	13:47
QC1204903056	MB										
Mercury			J	9.80	ug/kg					09/07/21	13:45
QC1204903059	552505001	MS									
Mercury	241	43.5		250	ug/kg		85.4	(80%-120%)		09/07/21	13:52
QC1204903060	552505001	SDILT									
Mercury		0.348		0.219	ug/L	215		(0%-10%)		09/07/21	13:53
Semi-Volatile-GC/MS											
Batch	2171319										
QC1204904811	LCS										
1,1'-Biphenyl	1660			1490	ug/kg		90	(57%-118%)	JMB3	09/08/21	17:09
1,2,4,5-Tetrachlorobenzene	1660			1420	ug/kg		86	(51%-110%)			
2,3,4,6-Tetrachlorophenol	1660			1510	ug/kg		91	(52%-120%)			

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

QC Summary

Workorder: 554631

Page 10 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	2171319										
2,4,5-Trichlorophenol	1660			1510	ug/kg		91	(58%-120%)	JMB3	09/08/21	17:09
2,4,6-Trichlorophenol	1660			1490	ug/kg		90	(52%-119%)			
2,4-Dichlorophenol	1660			1380	ug/kg		83	(52%-116%)			
2,4-Dimethylphenol	1660			1240	ug/kg		74	(47%-96%)			
2,4-Dinitrophenol	1660			918	ug/kg		55	(18%-92%)			
2,4-Dinitrotoluene	1660			1550	ug/kg		93	(52%-120%)			
2,6-Dinitrotoluene	1660			1540	ug/kg		93	(58%-112%)			
2-Chloronaphthalene	1660			1490	ug/kg		90	(49%-108%)			
2-Chlorophenol	1660			1380	ug/kg		83	(55%-107%)			
2-Methyl-4,6-dinitrophenol	1660			1120	ug/kg		68	(23%-110%)			
2-Methylnaphthalene	1660			1320	ug/kg		80	(47%-99%)			
2-Nitrophenol	1660			1440	ug/kg		87	(53%-113%)			
3,3'-Dichlorobenzidine	1660			947	ug/kg		57	(35%-109%)			
4-Bromophenylphenylether	1660			1540	ug/kg		93	(56%-113%)			
4-Chloro-3-methylphenol	1660			1410	ug/kg		85	(54%-119%)			

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

QC Summary

Workorder: 554631

Page 11 of 55

Parname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	2171319										
4-Chloroaniline	1660			1060	ug/kg		64	(36%-90%)	JMB3	09/08/21	17:09
4-Chlorophenylphenylether	1660			1460	ug/kg		88	(53%-117%)			
4-Nitrophenol	1660			1350	ug/kg		81	(39%-130%)			
Acenaphthene	1660			1460	ug/kg		88	(53%-104%)			
Acenaphthylene	1660			1460	ug/kg		88	(55%-104%)			
Acetophenone	1660			1360	ug/kg		82	(50%-103%)			
Anthracene	1660			1560	ug/kg		94	(54%-109%)			
Atrazine	1660			1880	ug/kg		113	(54%-133%)			
Benzaldehyde	1660			374	ug/kg		23 *	(25%-83%)			
Benzo(a)anthracene	1660			1610	ug/kg		97	(58%-110%)			
Benzo(a)pyrene	1660			1350	ug/kg		81	(50%-114%)			
Benzo(b)fluoranthene	1660			1460	ug/kg		88	(51%-111%)			
Benzo(ghi)perylene	1660			1930	ug/kg		116	(42%-122%)			
Benzo(k)fluoranthene	1660			1520	ug/kg		91	(49%-118%)			
Butylbenzylphthalate	1660			1660	ug/kg		100	(51%-123%)			

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

QC Summary

Workorder: 554631

Page 12 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	2171319										
Caprolactam	1660			1470	ug/kg		89	(51%-122%)	JMB3	09/08/21	17:09
Carbazole	1660			1720	ug/kg		104	(51%-118%)			
Chrysene	1660			1580	ug/kg		95	(59%-112%)			
Di-n-butylphthalate	1660			1620	ug/kg		98	(55%-122%)			
Di-n-octylphthalate	1660			1510	ug/kg		91	(50%-135%)			
Dibenzo(a,h)anthracene	1660			2050	ug/kg		124	(48%-132%)			
Dibenzofuran	1660			1490	ug/kg		90	(54%-112%)			
Diethylphthalate	1660			1560	ug/kg		94	(58%-121%)			
Dimethylphthalate	1660			1560	ug/kg		94	(52%-118%)			
Diphenylamine	1660			1610	ug/kg		97	(52%-107%)			
Fluoranthene	1660			1540	ug/kg		93	(52%-122%)			
Fluorene	1660			1520	ug/kg		92	(52%-110%)			
Hexachlorobenzene	1660			1520	ug/kg		91	(53%-111%)			
Hexachlorobutadiene	1660			1370	ug/kg		83	(49%-110%)			
Hexachlorocyclopentadiene	1660			790	ug/kg		48	(24%-85%)			

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

QC Summary

Workorder: 554631

Page 13 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	2171319										
Hexachloroethane	1660			1270	ug/kg		76	(46%-94%)	JMB3	09/08/21	17:09
Indeno(1,2,3-cd)pyrene	1660			2060	ug/kg		124	(47%-128%)			
Isophorone	1660			1450	ug/kg		87	(55%-105%)			
N-Nitrosodipropylamine	1660			1420	ug/kg		86	(45%-112%)			
Naphthalene	1660			1380	ug/kg		83	(53%-100%)			
Nitrobenzene	1660			1420	ug/kg		86	(52%-106%)			
Pentachlorophenol	1660			1380	ug/kg		83	(35%-118%)			
Phenanthrene	1660			1550	ug/kg		93	(52%-108%)			
Phenol	1660			1420	ug/kg		85	(49%-111%)			
Pyrene	1660			1710	ug/kg		103	(45%-112%)			
bis(2-Chloro-1-methylethyl)ether	1660			1290	ug/kg		78	(39%-115%)			
bis(2-Chloroethoxy)methane	1660			1260	ug/kg		76	(52%-100%)			
bis(2-Chloroethyl) ether	1660			1350	ug/kg		81	(48%-104%)			
bis(2-Ethylhexyl)phthalate	1660		B	1470	ug/kg		88	(44%-127%)			
m,p-Cresols	1660			1440	ug/kg		87	(50%-118%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 14 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	2171319										
m-Nitroaniline	1660			1420	ug/kg		86	(40%-113%)	JMB3	09/08/21	17:09
o-Cresol	1660			1340	ug/kg		80	(53%-111%)			
o-Nitroaniline	1660			1610	ug/kg		97	(50%-119%)			
p-Nitroaniline	1660			1960	ug/kg		118	(38%-141%)			
**2,4,6-Tribromophenol	3320			2880	ug/kg		87	(26%-128%)			
**2-Fluorobiphenyl	1660			1270	ug/kg		77	(26%-118%)			
**2-Fluorophenol	3320			2650	ug/kg		80	(30%-108%)			
**Nitrobenzene-d5	1660			1270	ug/kg		77	(28%-110%)			
**Phenol-d5	3320			2810	ug/kg		85	(29%-116%)			
**p-Terphenyl-d14	1660			1510	ug/kg		91	(26%-130%)			
QC1204904810 MB											
1,1'-Biphenyl			U	98.5	ug/kg					09/08/21	16:38
1,2,4,5-Tetrachlorobenzene			U	98.5	ug/kg						
2,3,4,6-Tetrachlorophenol			U	98.5	ug/kg						
2,4,5-Trichlorophenol			U	98.5	ug/kg						
2,4,6-Trichlorophenol			U	98.5	ug/kg						

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 15 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	2171319										
2,4-Dichlorophenol			U	98.5	ug/kg				JMB3	09/08/21	16:38
2,4-Dimethylphenol			U	98.5	ug/kg						
2,4-Dinitrophenol			U	98.5	ug/kg						
2,4-Dinitrotoluene			U	98.5	ug/kg						
2,6-Dinitrotoluene			U	98.5	ug/kg						
2-Chloronaphthalene			U	9.85	ug/kg						
2-Chlorophenol			U	98.5	ug/kg						
2-Methyl-4,6-dinitrophenol			U	98.5	ug/kg						
2-Methylnaphthalene			U	9.85	ug/kg						
2-Nitrophenol			U	98.5	ug/kg						
3,3'-Dichlorobenzidine			U	98.5	ug/kg						
4-Bromophenylphenylether			U	98.5	ug/kg						
4-Chloro-3-methylphenol			U	131	ug/kg						
4-Chloroaniline			U	98.5	ug/kg						
4-Chlorophenylphenylether			U	98.5	ug/kg						

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 16 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	2171319										
4-Nitrophenol			U	98.5	ug/kg				JMB3	09/08/21	16:38
Acenaphthene			U	9.85	ug/kg						
Acenaphthylene			U	9.85	ug/kg						
Acetophenone			U	98.5	ug/kg						
Anthracene			U	9.85	ug/kg						
Atrazine			U	131	ug/kg						
Benzaldehyde			U	98.5	ug/kg						
Benzo(a)anthracene			U	9.85	ug/kg						
Benzo(a)pyrene			U	9.85	ug/kg						
Benzo(b)fluoranthene			U	9.85	ug/kg						
Benzo(ghi)perylene			U	9.85	ug/kg						
Benzo(k)fluoranthene			U	9.85	ug/kg						
Butylbenzylphthalate			U	9.85	ug/kg						
Caprolactam			U	98.5	ug/kg						
Carbazole			U	9.85	ug/kg						

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 17 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	2171319										
Chrysene			U	9.85	ug/kg				JMB3	09/08/21	16:38
Di-n-butylphthalate			U	9.85	ug/kg						
Di-n-octylphthalate			U	9.85	ug/kg						
Dibenzo(a,h)anthracene			U	9.85	ug/kg						
Dibenzofuran			U	98.5	ug/kg						
Diethylphthalate			U	9.85	ug/kg						
Dimethylphthalate			U	9.85	ug/kg						
Diphenylamine			U	98.5	ug/kg						
Fluoranthene			U	9.85	ug/kg						
Fluorene			U	9.85	ug/kg						
Hexachlorobenzene			U	98.5	ug/kg						
Hexachlorobutadiene			U	98.5	ug/kg						
Hexachlorocyclopentadiene			U	98.5	ug/kg						
Hexachloroethane			U	98.5	ug/kg						
Indeno(1,2,3-cd)pyrene			U	9.85	ug/kg						

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 18 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	2171319										
Isophorone			U	98.5	ug/kg				JMB3	09/08/21	16:38
N-Nitrosodipropylamine			U	98.5	ug/kg						
Naphthalene			U	9.85	ug/kg						
Nitrobenzene			U	98.5	ug/kg						
Pentachlorophenol			U	98.5	ug/kg						
Phenanthrene			U	9.85	ug/kg						
Phenol			U	98.5	ug/kg						
Pyrene			U	9.85	ug/kg						
bis(2-Chloro-1-methylethyl)ether			U	98.5	ug/kg						
bis(2-Chloroethoxy)methane			U	98.5	ug/kg						
bis(2-Chloroethyl) ether			U	98.5	ug/kg						
bis(2-Ethylhexyl)phthalate			J	21.3	ug/kg						
m,p-Cresols			U	98.5	ug/kg						
m-Nitroaniline			U	98.5	ug/kg						
o-Cresol			U	98.5	ug/kg						

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 19 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	2171319										
o-Nitroaniline			U	108	ug/kg				JMB3	09/08/21	16:38
p-Nitroaniline			U	98.5	ug/kg						
**2,4,6-Tribromophenol	3280			2660	ug/kg		81	(26%-128%)			
**2-Fluorobiphenyl	1640			1270	ug/kg		78	(26%-118%)			
**2-Fluorophenol	3280			2690	ug/kg		82	(30%-108%)			
**Nitrobenzene-d5	1640			1250	ug/kg		76	(28%-110%)			
**Phenol-d5	3280			2850	ug/kg		87	(29%-116%)			
**p-Terphenyl-d14	1640			1410	ug/kg		86	(26%-130%)			
QC1204904812 554725003 MS											
1,1'-Biphenyl	5860	U	337	4630	ug/kg		79	(19%-123%)		09/08/21	18:43
1,2,4,5-Tetrachlorobenzene	5860	U	337	4480	ug/kg		76	(24%-110%)			
2,3,4,6-Tetrachlorophenol	5860	U	337	4620	ug/kg		79	(28%-125%)			
2,4,5-Trichlorophenol	5860	U	337	4700	ug/kg		80	(29%-120%)			
2,4,6-Trichlorophenol	5860	U	337	4490	ug/kg		77	(26%-127%)			
2,4-Dichlorophenol	5860	U	337	4230	ug/kg		72	(23%-120%)			
2,4-Dimethylphenol	5860	U	337	3510	ug/kg		60	(20%-105%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 20 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	2171319										
2,4-Dinitrophenol	5860	U	337	2900	ug/kg		49	(28%-120%)	JMB3	09/08/21	18:43
2,4-Dinitrotoluene	5860	U	337	4920	ug/kg		84	(28%-120%)			
2,6-Dinitrotoluene	5860	U	337	4850	ug/kg		83	(27%-120%)			
2-Chloronaphthalene	5860	U	33.7	4660	ug/kg		80	(16%-118%)			
2-Chlorophenol	5860	U	337	4290	ug/kg		73	(19%-108%)			
2-Methyl-4,6-dinitrophenol	5860	U	337	3770	ug/kg		64	(17%-112%)			
2-Methylnaphthalene	5860	U	33.7	4120	ug/kg		70	(19%-110%)			
2-Nitrophenol	5860	U	337	4400	ug/kg		75	(20%-110%)			
3,3'-Dichlorobenzidine	5860	U	337	1480	ug/kg		25	(12%-110%)			
4-Bromophenylphenylether	5860	U	337	4820	ug/kg		82	(25%-120%)			
4-Chloro-3-methylphenol	5860	U	450	4320	ug/kg		74	(27%-122%)			
4-Chloroaniline	5860	U	337	2930	ug/kg		50	(26%-88%)			
4-Chlorophenylphenylether	5860	U	337	4640	ug/kg		79	(25%-124%)			
4-Nitrophenol	5860	U	337	3890	ug/kg		66	(16%-132%)			
Acenaphthene	5860	U	33.7	4560	ug/kg		78	(17%-113%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 21 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	2171319										
Acenaphthylene	5860	U	33.7	4600	ug/kg		79	(23%-112%)	JMB3	09/08/21	18:43
Acetophenone	5860	U	337	4190	ug/kg		71	(19%-118%)			
Anthracene	5860	U	33.7	4920	ug/kg		84	(21%-113%)			
Atrazine	5860	U	450	5790	ug/kg		99	(28%-133%)			
Benzaldehyde	5860	U	337	1810	ug/kg		31	(10%-97%)			
Benzo(a)anthracene	5860	U	33.7	5030	ug/kg		86	(24%-116%)			
Benzo(a)pyrene	5860	U	33.7	4360	ug/kg		74	(23%-120%)			
Benzo(b)fluoranthene	5860	U	33.7	4600	ug/kg		78	(22%-122%)			
Benzo(ghi)perylene	5860	U	33.7	6530	ug/kg		111	(15%-120%)			
Benzo(k)fluoranthene	5860	U	33.7	4890	ug/kg		83	(22%-130%)			
Butylbenzylphthalate	5860	U	33.7	5330	ug/kg		91	(21%-133%)			
Caprolactam	5860	U	337	4350	ug/kg		74	(22%-125%)			
Carbazole	5860	U	33.7	5240	ug/kg		89	(19%-123%)			
Chrysene	5860	U	33.7	4900	ug/kg		84	(23%-120%)			
Di-n-butylphthalate	5860	J	34.9	5140	ug/kg		87	(28%-120%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 22 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	2171319										
Di-n-octylphthalate	5860	U	33.7	4510	ug/kg		77	(27%-132%)	JMB3	09/08/21	18:43
Dibenzo(a,h)anthracene	5860	U	33.7	6890	ug/kg		118	(17%-118%)			
Dibenzofuran	5860	U	337	4720	ug/kg		81	(24%-116%)			
Diethylphthalate	5860	U	33.7	4880	ug/kg		83	(29%-120%)			
Dimethylphthalate	5860	U	33.7	4880	ug/kg		83	(28%-120%)			
Diphenylamine	5860	U	337	4940	ug/kg		84	(23%-111%)			
Fluoranthene	5860	U	33.7	4650	ug/kg		79	(24%-122%)			
Fluorene	5860	U	33.7	4810	ug/kg		82	(20%-119%)			
Hexachlorobenzene	5860	U	337	4690	ug/kg		80	(27%-113%)			
Hexachlorobutadiene	5860	U	337	4280	ug/kg		73	(18%-110%)			
Hexachlorocyclopentadiene	5860	U	337	2530	ug/kg		43	(18%-75%)			
Hexachloroethane	5860	U	337	3910	ug/kg		67	(18%-102%)			
Indeno(1,2,3-cd)pyrene	5860	U	33.7	6940	ug/kg		118	(14%-122%)			
Isophorone	5860	U	337	4480	ug/kg		77	(17%-110%)			
N-Nitrosodipropylamine	5860	U	337	4440	ug/kg		76	(18%-120%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 23 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	2171319										
Naphthalene	5860	U	33.7		4290	ug/kg	73	(18%-110%)	JMB3	09/08/21	18:43
Nitrobenzene	5860	U	337		4480	ug/kg	76	(21%-110%)			
Pentachlorophenol	5860	U	337		3480	ug/kg	59	(17%-128%)			
Phenanthrene	5860	U	33.7		4910	ug/kg	84	(20%-117%)			
Phenol	5860	U	337		4350	ug/kg	74	(18%-119%)			
Pyrene	5860	U	33.7		5810	ug/kg	99	(22%-124%)			
bis(2-Chloro-1-methylethyl)ether	5860	U	337		4050	ug/kg	69	(15%-114%)			
bis(2-Chloroethoxy)methane	5860	U	337		3990	ug/kg	68	(23%-112%)			
bis(2-Chloroethyl) ether	5860	U	337		4210	ug/kg	72	(19%-112%)			
bis(2-Ethylhexyl)phthalate	5860	BJ	77.6	B	4540	ug/kg	76	(19%-133%)			
m,p-Cresols	5860	U	337		4370	ug/kg	75	(24%-120%)			
m-Nitroaniline	5860	U	337		3700	ug/kg	63	(18%-106%)			
o-Cresol	5860	U	337		4020	ug/kg	69	(20%-120%)			
o-Nitroaniline	5860	U	371		4980	ug/kg	85	(26%-120%)			
p-Nitroaniline	5860	U	337		4340	ug/kg	74	(14%-133%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 24 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	2171319										
**2,4,6-Tribromophenol	11700	7350		8420	ug/kg		72	(26%-128%)	JMB3	09/08/21	18:43
**2-Fluorobiphenyl	5860	4160		4060	ug/kg		69	(26%-118%)			
**2-Fluorophenol	11700	8420		8260	ug/kg		70	(30%-108%)			
**Nitrobenzene-d5	5860	4030		4000	ug/kg		68	(28%-110%)			
**Phenol-d5	11700	9060		8600	ug/kg		73	(29%-116%)			
**p-Terphenyl-d14	5860	5330		5020	ug/kg		86	(26%-130%)			
QC1204904813 554725003 MSD											
1,1'-Biphenyl	5780	U	337	5050	ug/kg	9	88	(0%-30%)		09/08/21	19:14
1,2,4,5-Tetrachlorobenzene	5780	U	337	4800	ug/kg	7	83	(0%-30%)			
2,3,4,6-Tetrachlorophenol	5780	U	337	4810	ug/kg	4	83	(0%-30%)			
2,4,5-Trichlorophenol	5780	U	337	5230	ug/kg	11	91	(0%-30%)			
2,4,6-Trichlorophenol	5780	U	337	4800	ug/kg	7	83	(0%-30%)			
2,4-Dichlorophenol	5780	U	337	4740	ug/kg	11	82	(0%-30%)			
2,4-Dimethylphenol	5780	U	337	4070	ug/kg	15	70	(0%-30%)			
2,4-Dinitrophenol	5780	U	337	4080	ug/kg	34*	71	(0%-30%)			
2,4-Dinitrotoluene	5780	U	337	5450	ug/kg	10	94	(0%-30%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 25 of 55

Parname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	2171319										
2,6-Dinitrotoluene	5780	U	337	5300	ug/kg	9	92	(0%-30%)	JMB3	09/08/21	19:14
2-Chloronaphthalene	5780	U	33.7	5070	ug/kg	8	88	(0%-30%)			
2-Chlorophenol	5780	U	337	4810	ug/kg	12	83	(0%-30%)			
2-Methyl-4,6-dinitrophenol	5780	U	337	4930	ug/kg	27	85	(0%-30%)			
2-Methylnaphthalene	5780	U	33.7	4550	ug/kg	10	79	(0%-30%)			
2-Nitrophenol	5780	U	337	4860	ug/kg	10	84	(0%-30%)			
3,3'-Dichlorobenzidine	5780	U	337	1790	ug/kg	19	31	(0%-30%)			
4-Bromophenylphenylether	5780	U	337	5280	ug/kg	9	91	(0%-30%)			
4-Chloro-3-methylphenol	5780	U	450	4860	ug/kg	12	84	(0%-30%)			
4-Chloroaniline	5780	U	337	2970	ug/kg	1	51	(0%-30%)			
4-Chlorophenylphenylether	5780	U	337	5090	ug/kg	9	88	(0%-30%)			
4-Nitrophenol	5780	U	337	3960	ug/kg	2	68	(0%-30%)			
Acenaphthene	5780	U	33.7	4940	ug/kg	8	86	(0%-30%)			
Acenaphthylene	5780	U	33.7	5000	ug/kg	8	87	(0%-30%)			
Acetophenone	5780	U	337	4730	ug/kg	12	82	(0%-30%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 26 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	2171319										
Anthracene	5780	U	33.7	5380	ug/kg	9	93	(0%-30%)	JMB3	09/08/21	19:14
Atrazine	5780	U	450	6390	ug/kg	10	111	(0%-30%)			
Benzaldehyde	5780	U	337	2040	ug/kg	12	35	(0%-30%)			
Benzo(a)anthracene	5780	U	33.7	5510	ug/kg	9	95	(0%-30%)			
Benzo(a)pyrene	5780	U	33.7	4700	ug/kg	7	81	(0%-30%)			
Benzo(b)fluoranthene	5780	U	33.7	4930	ug/kg	7	85	(0%-30%)			
Benzo(ghi)perylene	5780	U	33.7	7330	ug/kg	12	127*	(0%-30%)			
Benzo(k)fluoranthene	5780	U	33.7	5130	ug/kg	5	89	(0%-30%)			
Butylbenzylphthalate	5780	U	33.7	5750	ug/kg	8	100	(0%-30%)			
Caprolactam	5780	U	337	5190	ug/kg	18	90	(0%-30%)			
Carbazole	5780	U	33.7	5780	ug/kg	10	100	(0%-30%)			
Chrysene	5780	U	33.7	5410	ug/kg	10	94	(0%-30%)			
Di-n-butylphthalate	5780	J	34.9	5590	ug/kg	8	96	(0%-30%)			
Di-n-octylphthalate	5780	U	33.7	5370	ug/kg	17	93	(0%-30%)			
Dibenzo(a,h)anthracene	5780	U	33.7	7740	ug/kg	12	134*	(0%-30%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 27 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	2171319										
Dibenzofuran	5780	U	337	5100	ug/kg	8	88	(0%-30%)	JMB3	09/08/21	19:14
Diethylphthalate	5780	U	33.7	5370	ug/kg	10	93	(0%-30%)			
Dimethylphthalate	5780	U	33.7	5390	ug/kg	10	93	(0%-30%)			
Diphenylamine	5780	U	337	5510	ug/kg	11	95	(0%-30%)			
Fluoranthene	5780	U	33.7	5200	ug/kg	11	90	(0%-30%)			
Fluorene	5780	U	33.7	5260	ug/kg	9	91	(0%-30%)			
Hexachlorobenzene	5780	U	337	5170	ug/kg	10	90	(0%-30%)			
Hexachlorobutadiene	5780	U	337	4610	ug/kg	7	80	(0%-30%)			
Hexachlorocyclopentadiene	5780	U	337	3180	ug/kg	23	55	(0%-30%)			
Hexachloroethane	5780	U	337	4260	ug/kg	9	74	(0%-30%)			
Indeno(1,2,3-cd)pyrene	5780	U	33.7	7740	ug/kg	11	134*	(0%-30%)			
Isophorone	5780	U	337	4930	ug/kg	10	85	(0%-30%)			
N-Nitrosodipropylamine	5780	U	337	5000	ug/kg	12	87	(0%-30%)			
Naphthalene	5780	U	33.7	4650	ug/kg	8	81	(0%-30%)			
Nitrobenzene	5780	U	337	4830	ug/kg	7	84	(0%-30%)			

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

QC Summary

Workorder: 554631

Page 28 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	2171319										
Pentachlorophenol	5780	U	337		3470	ug/kg	0	60	(0%-30%)	JMB3	09/08/21 19:14
Phenanthrene	5780	U	33.7		5360	ug/kg	9	93	(0%-30%)		
Phenol	5780	U	337		4980	ug/kg	14	86	(0%-30%)		
Pyrene	5780	U	33.7		5870	ug/kg	1	102	(0%-30%)		
bis(2-Chloro-1-methylethyl)ether	5780	U	337		4480	ug/kg	10	77	(0%-30%)		
bis(2-Chloroethoxy)methane	5780	U	337		4310	ug/kg	8	75	(0%-30%)		
bis(2-Chloroethyl) ether	5780	U	337		4620	ug/kg	9	80	(0%-30%)		
bis(2-Ethylhexyl)phthalate	5780	BJ	77.6	B	5120	ug/kg	12	87	(0%-30%)		
m,p-Cresols	5780	U	337		5080	ug/kg	15	88	(0%-30%)		
m-Nitroaniline	5780	U	337		4070	ug/kg	9	70	(0%-30%)		
o-Cresol	5780	U	337		4680	ug/kg	15	81	(0%-30%)		
o-Nitroaniline	5780	U	371		5560	ug/kg	11	96	(0%-30%)		
p-Nitroaniline	5780	U	337		5020	ug/kg	15	87	(0%-30%)		
**2,4,6-Tribromophenol	11600		7350		9040	ug/kg		78	(26%-128%)		
**2-Fluorobiphenyl	5780		4160		4380	ug/kg		76	(26%-118%)		

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 29 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	2171319										
**2-Fluorophenol	11600	8420		9050	ug/kg		78	(30%-108%)	JMB3	09/08/21	19:14
**Nitrobenzene-d5	5780	4030		4340	ug/kg		75	(28%-110%)			
**Phenol-d5	11600	9060		9830	ug/kg		85	(29%-116%)			
**p-Terphenyl-d14	5780	5330		5210	ug/kg		90	(26%-130%)			
Volatile-GC/MS											
Batch	2173220										
QC1204908827	HB										
1,1,1-Trichloroethane			U	16.7	ug/kg				JM6	09/14/21	10:35
1,1,2,2-Tetrachloroethane			U	16.7	ug/kg						
1,1,2-Trichloroethane			U	16.7	ug/kg						
1,1-Dichloroethane			U	16.7	ug/kg						
1,1-Dichloroethylene			U	16.7	ug/kg						
1,2,3-Trichlorobenzene			U	16.7	ug/kg						
1,2,4-Trichlorobenzene			U	16.7	ug/kg						
1,2-Dibromo-3-chloropropane			U	25.0	ug/kg						
1,2-Dibromoethane			U	16.7	ug/kg						
1,2-Dichlorobenzene			U	16.7	ug/kg						

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 30 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
1,2-Dichloroethane			U	16.7	ug/kg				JM6	09/14/21	10:35
1,2-Dichloropropane			U	16.7	ug/kg						
1,3-Dichlorobenzene			U	16.7	ug/kg						
1,4-Dichlorobenzene			U	16.7	ug/kg						
1,4-Dioxane			U	833	ug/kg						
2-Butanone			J	85.0	ug/kg						
2-Hexanone			U	83.4	ug/kg						
4-Methyl-2-pentanone			U	83.4	ug/kg						
Acetone			U	83.4	ug/kg						
Benzene			U	16.7	ug/kg						
Bromochloromethane			U	16.7	ug/kg						
Bromodichloromethane			U	16.7	ug/kg						
Bromoform			U	16.7	ug/kg						
Bromomethane			U	16.7	ug/kg						
Carbon disulfide			U	83.4	ug/kg						

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 31 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
Carbon tetrachloride			U	16.7	ug/kg				JM6	09/14/21	10:35
Chlorobenzene			U	16.7	ug/kg						
Chloroethane			U	16.7	ug/kg						
Chloroform			U	16.7	ug/kg						
Chloromethane			U	16.7	ug/kg						
Cyclohexane			U	16.7	ug/kg						
Dibromochloromethane			U	16.7	ug/kg						
Dichlorodifluoromethane			U	16.7	ug/kg						
Ethylbenzene			U	16.7	ug/kg						
Isopropylbenzene			U	16.7	ug/kg						
Methyl acetate			U	83.4	ug/kg						
Methylcyclohexane			U	16.7	ug/kg						
Methylene chloride			U	83.4	ug/kg						
Styrene			U	16.7	ug/kg						
Tetrachloroethylene			U	16.7	ug/kg						

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 32 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
Toluene			U	16.7	ug/kg				JM6	09/14/21	10:35
Trichloroethylene			U	16.7	ug/kg						
Trichlorofluoromethane			U	16.7	ug/kg						
Trichlorotrifluoroethane			U	83.4	ug/kg						
Vinyl chloride			U	16.7	ug/kg						
cis-1,2-Dichloroethylene			U	16.7	ug/kg						
cis-1,3-Dichloropropylene			U	16.7	ug/kg						
m,p-Xylenes			U	33.4	ug/kg						
o-Xylene			U	16.7	ug/kg						
tert-Butyl methyl ether			U	16.7	ug/kg						
trans-1,2-Dichloroethylene			U	16.7	ug/kg						
trans-1,3-Dichloropropylene			U	16.7	ug/kg						
**1,2-Dichloroethane-d4	50.0			47.1	ug/L		94	(76%-127%)			
**Bromofluorobenzene	50.0			48.8	ug/L		98	(70%-130%)			
**Toluene-d8	50.0			48.2	ug/L		96	(81%-120%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 33 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
QC1204908028	LCS										
1,1,1-Trichloroethane	50.0			41.6	ug/kg		83	(71%-131%)	JM6	09/13/21	08:13
1,1,2,2-Tetrachloroethane	50.0			37.6	ug/kg		75	(69%-123%)			
1,1,2-Trichloroethane	50.0			38.2	ug/kg		76	(73%-117%)			
1,1-Dichloroethane	50.0			38.9	ug/kg		78	(72%-121%)			
1,1-Dichloroethylene	50.0			35.9	ug/kg		72	(68%-128%)			
1,2,3-Trichlorobenzene	50.0			38.4	ug/kg		77	(68%-124%)			
1,2,4-Trichlorobenzene	50.0			38.2	ug/kg		76	(66%-128%)			
1,2-Dibromo-3-chloropropane	50.0			39.3	ug/kg		79	(61%-134%)			
1,2-Dibromoethane	50.0			40.8	ug/kg		82	(76%-122%)			
1,2-Dichlorobenzene	50.0			38.5	ug/kg		77	(73%-116%)			
1,2-Dichloroethane	50.0			41.3	ug/kg		83	(66%-119%)			
1,2-Dichloropropane	50.0			37.4	ug/kg		75	(71%-120%)			
1,3-Dichlorobenzene	50.0			38.3	ug/kg		77	(71%-120%)			
1,4-Dichlorobenzene	50.0			38.0	ug/kg		76	(71%-113%)			
2-Butanone	250			202	ug/kg		81	(61%-134%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 34 of 55

<u>Parmname</u>	<u>NOM</u>	<u>Sample</u>	<u>Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD/D%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
Volatile-GC/MS											
Batch	2173220										
2-Hexanone	250			211	ug/kg		85	(58%-146%)	JM6	09/13/21	08:13
4-Methyl-2-pentanone	250			186	ug/kg		74	(65%-126%)			
Acetone	250			212	ug/kg		85	(60%-138%)			
Benzene	50.0			38.6	ug/kg		77	(71%-120%)			
Bromochloromethane	50.0			42.4	ug/kg		85	(73%-123%)			
Bromodichloromethane	50.0			44.7	ug/kg		89	(72%-130%)			
Bromoform	50.0			41.5	ug/kg		83	(65%-134%)			
Bromomethane	50.0			44.0	ug/kg		88	(61%-138%)			
Carbon disulfide	250			189	ug/kg		75	(68%-133%)			
Carbon tetrachloride	50.0			43.2	ug/kg		86	(70%-136%)			
Chlorobenzene	50.0			39.1	ug/kg		78	(73%-118%)			
Chloroethane	50.0			33.6	ug/kg		67	(67%-125%)			
Chloroform	50.0			41.0	ug/kg		82	(75%-124%)			
Chloromethane	50.0			39.1	ug/kg		78	(55%-131%)			
Cyclohexane	50.0			38.1	ug/kg		76	(63%-128%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 35 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
Dibromochloromethane	50.0			45.2	ug/kg		90	(72%-130%)	JM6	09/13/21	08:13
Dichlorodifluoromethane	50.0			54.2	ug/kg		108	(48%-156%)			
Ethylbenzene	50.0			37.9	ug/kg		76	(71%-118%)			
Isopropylbenzene	50.0			38.2	ug/kg		76	(70%-122%)			
Methyl acetate	250			212	ug/kg		85	(61%-134%)			
Methylcyclohexane	50.0			39.6	ug/kg		79	(65%-127%)			
Methylene chloride	50.0			41.3	ug/kg		83	(70%-120%)			
Styrene	50.0			38.9	ug/kg		78	(72%-124%)			
Tetrachloroethylene	50.0			39.2	ug/kg		78	(70%-125%)			
Toluene	50.0			37.9	ug/kg		76	(71%-119%)			
Trichloroethylene	50.0			38.3	ug/kg		77	(72%-117%)			
Trichlorofluoromethane	50.0			43.5	ug/kg		87	(65%-131%)			
Vinyl chloride	50.0			47.1	ug/kg		94	(64%-132%)			
cis-1,2-Dichloroethylene	50.0			38.3	ug/kg		77	(71%-124%)			
cis-1,3-Dichloropropylene	50.0			37.6	ug/kg		75	(74%-129%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 36 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
m,p-Xylenes	100			77.1	ug/kg		77	(71%-120%)	JM6	09/13/21	08:13
o-Xylene	50.0			38.6	ug/kg		77	(71%-122%)			
tert-Butyl methyl ether	50.0			36.6	ug/kg		73	(64%-130%)			
trans-1,2-Dichloroethylene	50.0			38.3	ug/kg		77	(71%-122%)			
trans-1,3-Dichloropropylene	50.0			38.9	ug/kg		78	(74%-125%)			
**1,2-Dichloroethane-d4	50.0			53.0	ug/L		106	(76%-127%)			
**Bromofluorobenzene	50.0			47.9	ug/L		96	(70%-130%)			
**Toluene-d8	50.0			47.8	ug/L		96	(81%-120%)			
QC1204908825 LCS											
1,1,1-Trichloroethane	50.0			42.6	ug/kg		85	(71%-131%)		09/14/21	08:49
1,1,2,2-Tetrachloroethane	50.0			40.8	ug/kg		82	(69%-123%)			
1,1,2-Trichloroethane	50.0			42.4	ug/kg		85	(73%-117%)			
1,1-Dichloroethane	50.0			42.0	ug/kg		84	(72%-121%)			
1,1-Dichloroethylene	50.0			37.3	ug/kg		75	(68%-128%)			
1,2,3-Trichlorobenzene	50.0			43.7	ug/kg		87	(68%-124%)			
1,2,4-Trichlorobenzene	50.0			43.5	ug/kg		87	(66%-128%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 37 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
1,2-Dibromo-3-chloropropane	50.0			41.1	ug/kg		82	(61%-134%)	JM6	09/14/21	08:49
1,2-Dibromoethane	50.0			44.4	ug/kg		89	(76%-122%)			
1,2-Dichlorobenzene	50.0			44.3	ug/kg		89	(73%-116%)			
1,2-Dichloroethane	50.0			41.7	ug/kg		83	(66%-119%)			
1,2-Dichloropropane	50.0			40.7	ug/kg		81	(71%-120%)			
1,3-Dichlorobenzene	50.0			43.5	ug/kg		87	(71%-120%)			
1,4-Dichlorobenzene	50.0			43.7	ug/kg		87	(71%-113%)			
2-Butanone	250			205	ug/kg		82	(61%-134%)			
2-Hexanone	250			220	ug/kg		88	(58%-146%)			
4-Methyl-2-pentanone	250			195	ug/kg		78	(65%-126%)			
Acetone	250			212	ug/kg		85	(60%-138%)			
Benzene	50.0			41.9	ug/kg		84	(71%-120%)			
Bromochloromethane	50.0			47.0	ug/kg		94	(73%-123%)			
Bromodichloromethane	50.0			45.6	ug/kg		91	(72%-130%)			
Bromoform	50.0			43.7	ug/kg		87	(65%-134%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 38 of 55

<u>Parmname</u>	<u>NOM</u>	<u>Sample</u>	<u>Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD/D%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
Volatile-GC/MS											
Batch	2173220										
Bromomethane	50.0			50.0	ug/kg		100	(61%-138%)	JM6	09/14/21	08:49
Carbon disulfide	250			205	ug/kg		82	(68%-133%)			
Carbon tetrachloride	50.0			44.1	ug/kg		88	(70%-136%)			
Chlorobenzene	50.0			43.4	ug/kg		87	(73%-118%)			
Chloroethane	50.0			40.0	ug/kg		80	(67%-125%)			
Chloroform	50.0			43.1	ug/kg		86	(75%-124%)			
Chloromethane	50.0			43.8	ug/kg		88	(55%-131%)			
Cyclohexane	50.0			42.7	ug/kg		85	(63%-128%)			
Dibromochloromethane	50.0			46.1	ug/kg		92	(72%-130%)			
Dichlorodifluoromethane	50.0			57.2	ug/kg		114	(48%-156%)			
Ethylbenzene	50.0			41.8	ug/kg		84	(71%-118%)			
Isopropylbenzene	50.0			42.3	ug/kg		85	(70%-122%)			
Methyl acetate	250			218	ug/kg		87	(61%-134%)			
Methylcyclohexane	50.0			42.8	ug/kg		86	(65%-127%)			
Methylene chloride	50.0			44.6	ug/kg		89	(70%-120%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 39 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
Styrene	50.0			43.4	ug/kg		87	(72%-124%)	JM6	09/14/21	08:49
Tetrachloroethylene	50.0			44.0	ug/kg		88	(70%-125%)			
Toluene	50.0			41.4	ug/kg		83	(71%-119%)			
Trichloroethylene	50.0			41.5	ug/kg		83	(72%-117%)			
Trichlorofluoromethane	50.0			46.2	ug/kg		92	(65%-131%)			
Vinyl chloride	50.0			52.9	ug/kg		106	(64%-132%)			
cis-1,2-Dichloroethylene	50.0			42.0	ug/kg		84	(71%-124%)			
cis-1,3-Dichloropropylene	50.0			39.7	ug/kg		79	(74%-129%)			
m,p-Xylenes	100			85.5	ug/kg		86	(71%-120%)			
o-Xylene	50.0			42.3	ug/kg		85	(71%-122%)			
tert-Butyl methyl ether	50.0			38.8	ug/kg		78	(64%-130%)			
trans-1,2-Dichloroethylene	50.0			40.3	ug/kg		81	(71%-122%)			
trans-1,3-Dichloropropylene	50.0			40.3	ug/kg		81	(74%-125%)			
**1,2-Dichloroethane-d4	50.0			47.7	ug/L		95	(76%-127%)			
**Bromofluorobenzene	50.0			47.7	ug/L		95	(70%-130%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 40 of 55

Parname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
**Toluene-d8	50.0			47.9	ug/L		96	(81%-120%)	JM6	09/14/21	08:49
QC1204908029 MB											
1,1,1-Trichloroethane			U	0.333	ug/kg					09/13/21	09:58
1,1,2,2-Tetrachloroethane			U	0.333	ug/kg						
1,1,2-Trichloroethane			U	0.333	ug/kg						
1,1-Dichloroethane			U	0.333	ug/kg						
1,1-Dichloroethylene			U	0.333	ug/kg						
1,2,3-Trichlorobenzene			U	0.333	ug/kg						
1,2,4-Trichlorobenzene			U	0.333	ug/kg						
1,2-Dibromo-3-chloropropane			U	0.500	ug/kg						
1,2-Dibromoethane			U	0.333	ug/kg						
1,2-Dichlorobenzene			U	0.333	ug/kg						
1,2-Dichloroethane			U	0.333	ug/kg						
1,2-Dichloropropane			U	0.333	ug/kg						
1,3-Dichlorobenzene			U	0.333	ug/kg						
1,4-Dichlorobenzene			U	0.333	ug/kg						

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 41 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
1,4-Dioxane			U	16.7	ug/kg				JM6	09/13/21	09:58
2-Butanone			U	1.67	ug/kg						
2-Hexanone			U	1.67	ug/kg						
4-Methyl-2-pentanone			U	1.67	ug/kg						
Acetone			U	1.67	ug/kg						
Benzene			U	0.333	ug/kg						
Bromochloromethane			U	0.333	ug/kg						
Bromodichloromethane			U	0.333	ug/kg						
Bromoform			U	0.333	ug/kg						
Bromomethane			U	0.333	ug/kg						
Carbon disulfide			U	1.67	ug/kg						
Carbon tetrachloride			U	0.333	ug/kg						
Chlorobenzene			U	0.333	ug/kg						
Chloroethane			U	0.333	ug/kg						
Chloroform			U	0.333	ug/kg						

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 42 of 55

Parname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
Chloromethane			U	0.333	ug/kg				JM6	09/13/21	09:58
Cyclohexane			U	0.333	ug/kg						
Dibromochloromethane			U	0.333	ug/kg						
Dichlorodifluoromethane			U	0.333	ug/kg						
Ethylbenzene			U	0.333	ug/kg						
Isopropylbenzene			U	0.333	ug/kg						
Methyl acetate			U	1.67	ug/kg						
Methylcyclohexane			U	0.333	ug/kg						
Methylene chloride			U	1.67	ug/kg						
Styrene			U	0.333	ug/kg						
Tetrachloroethylene			U	0.333	ug/kg						
Toluene			U	0.333	ug/kg						
Trichloroethylene			U	0.333	ug/kg						
Trichlorofluoromethane			U	0.333	ug/kg						
Trichlorotrifluoroethane			U	1.67	ug/kg						

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QC Summary

Workorder: 554631

Page 43 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
Vinyl chloride			U	0.333	ug/kg				JM6	09/13/21	09:58
cis-1,2-Dichloroethylene			U	0.333	ug/kg						
cis-1,3-Dichloropropylene			U	0.333	ug/kg						
m,p-Xylenes			U	0.667	ug/kg						
o-Xylene			U	0.333	ug/kg						
tert-Butyl methyl ether			U	0.333	ug/kg						
trans-1,2-Dichloroethylene			U	0.333	ug/kg						
trans-1,3-Dichloropropylene			U	0.333	ug/kg						
**1,2-Dichloroethane-d4	50.0			53.4	ug/L		107	(76%-127%)			
**Bromofluorobenzene	50.0			50.4	ug/L		101	(70%-130%)			
**Toluene-d8	50.0			48.7	ug/L		97	(81%-120%)			
QC1204908826 MB											
1,1,1-Trichloroethane			U	0.333	ug/kg					09/14/21	10:08
1,1,2,2-Tetrachloroethane			U	0.333	ug/kg						
1,1,2-Trichloroethane			U	0.333	ug/kg						
1,1-Dichloroethane			U	0.333	ug/kg						

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QC Summary

Workorder: 554631

Page 44 of 55

Parname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
1,1-Dichloroethylene			U	0.333	ug/kg				JM6	09/14/21	10:08
1,2,3-Trichlorobenzene			U	0.333	ug/kg						
1,2,4-Trichlorobenzene			U	0.333	ug/kg						
1,2-Dibromo-3-chloropropane			U	0.500	ug/kg						
1,2-Dibromoethane			U	0.333	ug/kg						
1,2-Dichlorobenzene			U	0.333	ug/kg						
1,2-Dichloroethane			U	0.333	ug/kg						
1,2-Dichloropropane			U	0.333	ug/kg						
1,3-Dichlorobenzene			U	0.333	ug/kg						
1,4-Dichlorobenzene			U	0.333	ug/kg						
1,4-Dioxane			U	16.7	ug/kg						
2-Butanone			U	1.67	ug/kg						
2-Hexanone			U	1.67	ug/kg						
4-Methyl-2-pentanone			U	1.67	ug/kg						
Acetone			U	1.67	ug/kg						

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QC Summary

Workorder: 554631

Page 45 of 55

Parname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
Benzene			U	0.333	ug/kg				JM6	09/14/21	10:08
Bromochloromethane			U	0.333	ug/kg						
Bromodichloromethane			U	0.333	ug/kg						
Bromoform			U	0.333	ug/kg						
Bromomethane			U	0.333	ug/kg						
Carbon disulfide			U	1.67	ug/kg						
Carbon tetrachloride			U	0.333	ug/kg						
Chlorobenzene			U	0.333	ug/kg						
Chloroethane			U	0.333	ug/kg						
Chloroform			U	0.333	ug/kg						
Chloromethane			U	0.333	ug/kg						
Cyclohexane			U	0.333	ug/kg						
Dibromochloromethane			U	0.333	ug/kg						
Dichlorodifluoromethane			U	0.333	ug/kg						
Ethylbenzene			U	0.333	ug/kg						

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QC Summary

Workorder: 554631

Page 46 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
Isopropylbenzene			U	0.333	ug/kg				JM6	09/14/21	10:08
Methyl acetate			U	1.67	ug/kg						
Methylcyclohexane			U	0.333	ug/kg						
Methylene chloride			U	1.67	ug/kg						
Styrene			U	0.333	ug/kg						
Tetrachloroethylene			U	0.333	ug/kg						
Toluene			U	0.333	ug/kg						
Trichloroethylene			U	0.333	ug/kg						
Trichlorofluoromethane			U	0.333	ug/kg						
Trichlorotrifluoroethane			U	1.67	ug/kg						
Vinyl chloride			U	0.333	ug/kg						
cis-1,2-Dichloroethylene			U	0.333	ug/kg						
cis-1,3-Dichloropropylene			U	0.333	ug/kg						
m,p-Xylenes			U	0.667	ug/kg						
o-Xylene			U	0.333	ug/kg						

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

QC Summary

Workorder: 554631

Page 47 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
tert-Butyl methyl ether			U	0.333	ug/kg				JM6	09/14/21	10:08
trans-1,2-Dichloroethylene			U	0.333	ug/kg						
trans-1,3-Dichloropropylene			U	0.333	ug/kg						
**1,2-Dichloroethane-d4	50.0			48.8	ug/L		98	(76%-127%)			
**Bromofluorobenzene	50.0			47.7	ug/L		95	(70%-130%)			
**Toluene-d8	50.0			46.2	ug/L		92	(81%-120%)			
QC1204908030 554822010 PS											
1,1,1-Trichloroethane	50.0	U	0.000	50.3	ug/L		101	(60%-135%)		09/13/21	18:43
1,1,2,2-Tetrachloroethane	50.0	U	0.000	39.1	ug/L		78	(53%-130%)			
1,1,2-Trichloroethane	50.0	U	0.000	41.1	ug/L		82	(51%-132%)			
1,1-Dichloroethane	50.0	U	0.000	46.7	ug/L		93	(62%-124%)			
1,1-Dichloroethylene	50.0	U	0.000	43.0	ug/L		86	(53%-136%)			
1,2,3-Trichlorobenzene	50.0	U	0.000	38.0	ug/L		76	(31%-137%)			
1,2,4-Trichlorobenzene	50.0	U	0.000	38.2	ug/L		76	(29%-142%)			
1,2-Dibromo-3-chloropropane	50.0	U	0.000	40.1	ug/L		80	(42%-135%)			
1,2-Dibromoethane	50.0	U	0.000	44.0	ug/L		88	(55%-129%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 48 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
1,2-Dichlorobenzene	50.0	U	0.000	42.0	ug/L		84	(33%-128%)	JM6	09/13/21	18:43
1,2-Dichloroethane	50.0	U	0.000	46.0	ug/L		92	(58%-122%)			
1,2-Dichloropropane	50.0	U	0.000	44.5	ug/L		89	(56%-121%)			
1,3-Dichlorobenzene	50.0	U	0.000	41.7	ug/L		83	(36%-132%)			
1,4-Dichlorobenzene	50.0	U	0.000	41.3	ug/L		83	(31%-125%)			
2-Butanone	250	U	0.000	199	ug/L		79	(36%-139%)			
2-Hexanone	250	U	0.000	212	ug/L		85	(32%-146%)			
4-Methyl-2-pentanone	250	U	0.000	184	ug/L		74	(48%-131%)			
Acetone	250	U	0.000	211	ug/L		84	(33%-148%)			
Benzene	50.0	U	0.000	44.4	ug/L		89	(54%-126%)			
Bromochloromethane	50.0	U	0.000	47.8	ug/L		96	(59%-125%)			
Bromodichloromethane	50.0	U	0.000	50.2	ug/L		100	(56%-130%)			
Bromoform	50.0	U	0.000	43.7	ug/L		87	(50%-136%)			
Bromomethane	50.0	U	0.000	55.0	ug/L		110	(33%-139%)			
Carbon disulfide	250	U	0.000	229	ug/L		92	(49%-139%)			

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

QC Summary

Workorder: 554631

Page 49 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
Carbon tetrachloride	50.0	U	0.000	51.5	ug/L		103	(51%-138%)	JM6	09/13/21	18:43
Chlorobenzene	50.0	U	0.000	43.9	ug/L		88	(46%-126%)			
Chloroethane	50.0	U	0.000	43.4	ug/L		87	(48%-126%)			
Chloroform	50.0	J	0.430	48.7	ug/L		97	(61%-126%)			
Chloromethane	50.0	U	0.000	50.1	ug/L		100	(44%-143%)			
Cyclohexane	50.0	U	0.000	45.1	ug/L		90	(42%-137%)			
Dibromochloromethane	50.0	U	0.000	47.8	ug/L		96	(53%-132%)			
Dichlorodifluoromethane	50.0	U	0.000	69.3	ug/L		139	(45%-149%)			
Ethylbenzene	50.0	U	0.000	43.5	ug/L		87	(43%-128%)			
Isopropylbenzene	50.0	U	0.000	44.0	ug/L		88	(39%-142%)			
Methyl acetate	250	U	0.000	213	ug/L		85	(48%-144%)			
Methylcyclohexane	50.0	U	0.000	45.0	ug/L		90	(34%-140%)			
Methylene chloride	50.0	U	0.000	48.7	ug/L		97	(56%-124%)			
Styrene	50.0	U	0.000	43.1	ug/L		86	(39%-132%)			
Tetrachloroethylene	50.0	U	0.000	45.2	ug/L		90	(46%-134%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 50 of 55

Parname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
Toluene	50.0	U	0.000		42.9	ug/L	86	(52%-127%)	JM6	09/13/21	18:43
Trichloroethylene	50.0		77.1	E	121	ug/L	89	(52%-132%)			
Trichlorofluoromethane	50.0	U	0.000		53.9	ug/L	108	(52%-130%)			
Vinyl chloride	50.0	U	0.000		61.2	ug/L	122	(53%-138%)			
cis-1,2-Dichloroethylene	50.0		2.41		46.7	ug/L	89	(56%-128%)			
cis-1,3-Dichloropropylene	50.0	U	0.000		40.0	ug/L	80	(49%-133%)			
m,p-Xylenes	100	U	0.380		87.0	ug/L	87	(40%-128%)			
o-Xylene	50.0	U	0.000		43.7	ug/L	87	(43%-129%)			
tert-Butyl methyl ether	50.0	U	0.000		39.2	ug/L	78	(52%-135%)			
trans-1,2-Dichloroethylene	50.0	U	0.000		45.5	ug/L	91	(54%-126%)			
trans-1,3-Dichloropropylene	50.0	U	0.000		41.4	ug/L	83	(49%-134%)			
**1,2-Dichloroethane-d4	50.0		51.7		52.4	ug/L	105	(76%-127%)			
**Bromofluorobenzene	50.0		44.7		49.3	ug/L	99	(70%-130%)			
**Toluene-d8	50.0		46.8		48.2	ug/L	96	(81%-120%)			
QC1204908031 554822010 PSD											
1,1,1-Trichloroethane	50.0	U	0.000		47.2	ug/L	6	94	(0%-20%)	09/13/21	19:09

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 51 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
1,1,2,2-Tetrachloroethane	50.0	U	0.000	35.3	ug/L	10	71	(0%-20%)	JM6	09/13/21	19:09
1,1,2-Trichloroethane	50.0	U	0.000	37.9	ug/L	8	76	(0%-20%)			
1,1-Dichloroethane	50.0	U	0.000	43.2	ug/L	8	86	(0%-20%)			
1,1-Dichloroethylene	50.0	U	0.000	41.1	ug/L	5	82	(0%-20%)			
1,2,3-Trichlorobenzene	50.0	U	0.000	34.7	ug/L	9	69	(0%-20%)			
1,2,4-Trichlorobenzene	50.0	U	0.000	34.5	ug/L	10	69	(0%-20%)			
1,2-Dibromo-3-chloropropane	50.0	U	0.000	33.8	ug/L	17	68	(0%-20%)			
1,2-Dibromoethane	50.0	U	0.000	38.8	ug/L	13	78	(0%-20%)			
1,2-Dichlorobenzene	50.0	U	0.000	39.3	ug/L	7	79	(0%-20%)			
1,2-Dichloroethane	50.0	U	0.000	40.7	ug/L	12	81	(0%-20%)			
1,2-Dichloropropane	50.0	U	0.000	44.8	ug/L	1	90	(0%-20%)			
1,3-Dichlorobenzene	50.0	U	0.000	39.4	ug/L	6	79	(0%-20%)			
1,4-Dichlorobenzene	50.0	U	0.000	38.7	ug/L	7	77	(0%-20%)			
2-Butanone	250	U	0.000	169	ug/L	16	68	(0%-20%)			
2-Hexanone	250	U	0.000	179	ug/L	17	72	(0%-20%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 52 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
4-Methyl-2-pentanone	250	U	0.000	159	ug/L	15	64	(0%-20%)	JM6	09/13/21	19:09
Acetone	250	U	0.000	173	ug/L	20	69	(0%-20%)			
Benzene	50.0	U	0.000	42.0	ug/L	5	84	(0%-20%)			
Bromochloromethane	50.0	U	0.000	43.1	ug/L	10	86	(0%-20%)			
Bromodichloromethane	50.0	U	0.000	45.9	ug/L	9	92	(0%-20%)			
Bromoform	50.0	U	0.000	40.0	ug/L	9	80	(0%-20%)			
Bromomethane	50.0	U	0.000	48.9	ug/L	12	98	(0%-20%)			
Carbon disulfide	250	U	0.000	216	ug/L	6	86	(0%-20%)			
Carbon tetrachloride	50.0	U	0.000	50.3	ug/L	2	101	(0%-20%)			
Chlorobenzene	50.0	U	0.000	41.1	ug/L	7	82	(0%-20%)			
Chloroethane	50.0	U	0.000	38.3	ug/L	13	77	(0%-20%)			
Chloroform	50.0	J	0.430	44.7	ug/L	9	88	(0%-20%)			
Chloromethane	50.0	U	0.000	44.3	ug/L	12	89	(0%-20%)			
Cyclohexane	50.0	U	0.000	45.1	ug/L	0	90	(0%-20%)			
Dibromochloromethane	50.0	U	0.000	43.1	ug/L	10	86	(0%-20%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 554631

Page 53 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
Dichlorodifluoromethane	50.0	U	0.000	63.9	ug/L	8	128	(0%-20%)	JM6	09/13/21	19:09
Ethylbenzene	50.0	U	0.000	41.6	ug/L	4	83	(0%-20%)			
Isopropylbenzene	50.0	U	0.000	44.2	ug/L	0	88	(0%-20%)			
Methyl acetate	250	U	0.000	178	ug/L	18	71	(0%-20%)			
Methylcyclohexane	50.0	U	0.000	51.2	ug/L	13	102	(0%-20%)			
Methylene chloride	50.0	U	0.000	43.5	ug/L	11	87	(0%-20%)			
Styrene	50.0	U	0.000	40.1	ug/L	7	80	(0%-20%)			
Tetrachloroethylene	50.0	U	0.000	44.5	ug/L	2	89	(0%-20%)			
Toluene	50.0	U	0.000	41.3	ug/L	4	83	(0%-20%)			
Trichloroethylene	50.0		77.1	E	106	ug/L	13	59	(0%-20%)		
Trichlorofluoromethane	50.0	U	0.000	50.9	ug/L	6	102	(0%-20%)			
Vinyl chloride	50.0	U	0.000	54.9	ug/L	11	110	(0%-20%)			
cis-1,2-Dichloroethylene	50.0		2.41	42.5	ug/L	9	80	(0%-20%)			
cis-1,3-Dichloropropylene	50.0	U	0.000	37.5	ug/L	7	75	(0%-20%)			
m,p-Xylenes	100	U	0.380	83.2	ug/L	4	83	(0%-20%)			

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

QC Summary

Workorder: 554631

Page 54 of 55

Parname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2173220										
o-Xylene	50.0	U	0.000	41.4	ug/L	5	83	(0%-20%)	JM6	09/13/21	19:09
tert-Butyl methyl ether	50.0	U	0.000	34.7	ug/L	12	69	(0%-20%)			
trans-1,2-Dichloroethylene	50.0	U	0.000	42.3	ug/L	7	85	(0%-20%)			
trans-1,3-Dichloropropylene	50.0	U	0.000	37.5	ug/L	10	75	(0%-20%)			
**1,2-Dichloroethane-d4	50.0		51.7	51.7	ug/L		103	(76%-127%)			
**Bromofluorobenzene	50.0		44.7	50.9	ug/L		102	(70%-130%)			
**Toluene-d8	50.0		46.8	49.2	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 %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E Concentration of the target analyte exceeds the instrument calibration range
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- JNX Non Calibrated Compound
- N Metals--The Matrix spike sample recovery is not within specified control limits

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

QC Summary

Workorder: 554631

Page 55 of 55

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
N	Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor										
N	Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor										
N/A	RPD or %Recovery limits do not apply.										
N1	See case narrative										
ND	Analyte concentration is not detected above the detection limit										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
P	Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, the difference is >70%.										
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.										
UJ	Compound cannot be extracted										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.										
Y	QC Samples were not spiked with this compound										
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
d	5-day BOD--The 2:1 depletion requirement was not met for this sample										
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes										
h	Preparation or preservation holding time was exceeded										

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

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

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

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

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

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

QC Summary

Report Date: September 15, 2021
Page 1 of 3

Client : Westinghouse Electric Company, LLC
PO Drawer R

Columbia, South Carolina

Contact: Ms. Cynthia Teague

Workorder: 554631

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Alpha Spec									
Batch	2169807								
QC1204901726	554631001	DUP							
Uranium-233/234		21.5	21.4	pCi/g	.405		(0%-20%)	MP2	09/07/21 13:27
		Uncert:	+/-1.29	+/-1.91					
		TPU:	+/-2.55	+/-3.33					
Uranium-235/236		0.968	1.62	pCi/g	50.1*		(0%-20%)		
		Uncert:	+/-0.310	+/-0.593					
		TPU:	+/-0.325	+/-0.627					
Uranium-238		4.63	4.76	pCi/g	2.88		(0%-20%)		
		Uncert:	+/-0.607	+/-0.904					
		TPU:	+/-0.769	+/-1.09					
QC1204901727	LCS								
Uranium-233/234			14.6	pCi/g				MP2	09/07/21 13:27
		Uncert:	+/-1.04						
		TPU:	+/-1.90						
Uranium-235/236			0.830	pCi/g					
		Uncert:	+/-0.297						
		TPU:	+/-0.310						
Uranium-238	15.1		14.6	pCi/g		97.2	(75%-125%)		
		Uncert:	+/-1.03						
		TPU:	+/-1.90						
QC1204901725	MB								
Uranium-233/234		U	-0.00410	pCi/g				MP2	09/07/21 13:27
		Uncert:	+/-0.132						
		TPU:	+/-0.132						
Uranium-235/236		U	0.0266	pCi/g					
		Uncert:	+/-0.0789						
		TPU:	+/-0.0790						
Uranium-238		U	0.0254	pCi/g					
		Uncert:	+/-0.0720						
		TPU:	+/-0.0721						
Rad Liquid Scintillation									
Batch	2169727								
QC1204901574	554631001	DUP							
Technetium-99		10.5	2.96	pCi/g	112*		(0%-20%)	JJ3	09/07/21 15:43
		Uncert:	+/-0.648	+/-0.415					
		TPU:	+/-1.37	+/-0.536					
QC1204901575	LCS								
Technetium-99		31.3	26.1	pCi/g		83.4	(75%-125%)	JJ3	09/07/21 16:45
		Uncert:	+/-1.60						
		TPU:	+/-3.40						
QC1204901573	MB								

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QC Summary

Workorder: 554631

Page 2 of 3

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation										
Batch	2169727									
Technetium-99		U	-0.190	pCi/g				JJ3	09/07/21	14:41
	Uncert:		+/-0.259							
	TPU:		+/-0.259							

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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: 554631

Page 3 of 3

<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.

** Indicates analyte is a surrogate/tracer compound.

^ 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.

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 Company PO
SDG #: 554631**

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: 2173220

Preparation Method: SW846 5035

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

Preparation Batch: 2173219

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
554631001	EL-TER-French Drain Discharge
554631002	EL-SS-Approx Discharge
1204908028	Laboratory Control Sample (LCS)
1204908029	Method Blank (MB)
1204908030	554822010(NonSDG) Post Spike (PS)
1204908031	554822010(NonSDG) Post Spike Duplicate (PSD)
1204908825	Laboratory Control Sample (LCS)
1204908826	Method Blank (MB)
1204908827	High Blank (HB)

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.

Calibration Information

Continuing Calibration Verification Requirements

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

Quality Control (QC) Information

Blank (MB) Statement

Target analytes were detected in the blank 1204908827 (HB) below the reporting limit.

Technical Information

Sample Re-extraction/Re-analysis

Sample 554631001 (EL-TER-French Drain Discharge) 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.

GC/MS Semivolatile

Product: Analysis of Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry

Analytical Method: SW846 3541/8270D

Analytical Procedure: GL-OA-E-009 REV# 45

Analytical Batch: 2171319

Preparation Method: SW846 3541

Preparation Procedure: GL-OA-E-066 REV# 9

Preparation Batch: 2171315

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
554631001	EL-TER-French Drain Discharge
554631002	EL-SS-Approx Discharge
1204904810	Method Blank (MB)
1204904811	Laboratory Control Sample (LCS)
1204904812	554725003(NonSDG) Matrix Spike (MS)
1204904813	554725003(NonSDG) Matrix Spike Duplicate (MSD)

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.

Calibration Information

CCV Requirements

All Calibration Verification Standards (CCV) did not meet the acceptance criteria as outlined in Method 8270D/E for samples 554631001 (EL-TER-French Drain Discharge) and 554631002 (EL-SS-Approx Discharge) and the associated QC. However, the method allows for a designated number of outliers dependent on the requested analyte list. This SDG satisfied the 8270D/E outlier acceptance criteria. If required, a CRDL was analyzed after the CCVs to demonstrate that there is adequate sensitivity to detect the failed compounds at the applicable lower quantitation limit.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB displayed target analytes below the reporting limit. As these analytes were not detected above the reporting limit in the associated samples, the data were reported and qualified accordingly.

Laboratory Control Sample (LCS) Recovery

The LCS and/or LCSD (See Below) did not meet spike recovery acceptance criteria. The failures are known to be poor responding analytes as stated per the Method. This may account for the low recoveries and the data were reported.

Sample	Analyte	Value
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1204904811 (LCS)	Benzaldehyde	23* (25%-83%)
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Spike Recovery Statement

The MS or MSD (See Below) recovered spiked analytes outside of the established acceptance limits. Because the recoveries were biased high and the target analytes were not detected in the associated samples above the reporting limit, the data were reported.

Sample	Analyte	Value
1204904813 (Non SDG 554725003MSD)	Benzo(ghi)perylene	127* (15%-120%)
	Dibenzo(a, h)anthracene	134* (17%-118%)
	Indeno(1, 2, 3-cd)pyrene	134* (14%-122%)

MS/MSD Relative Percent Difference (RPD) Statement

The relative percent difference (RPD) between the MS and MSD (See Below) did not meet acceptance limits. As the individual MS and MSD recoveries were within the acceptance limits, the failures had no adverse impact on the reported sample data.

Sample	Analyte	Value
1204904812MS and 1204904813MSD (Non SDG 554725003)	2, 4-Dinitrophenol	RPD 34* (0%-30%)

Technical Information

Sample Dilutions

Sample 554631002 (EL-SS-Approx Discharge) was diluted because the extract was very dark and/or viscous. The data from the dilution are reported.

Sample Re-extraction/Re-analysis

Samples 554631001 (EL-TER-French Drain Discharge) and 554631002 (EL-SS-Approx Discharge) were re-analyzed for ISTD failure.

Miscellaneous Information

Manual Integrations

Samples (See Below) required manual integration in order to properly identify one or more peaks and/or to correctly position the baseline as set in the calibration standard injections.

Sample	Analyte	Value
554631001 (EL-TER-French Drain Discharge)	Benzo(b)fluoranthene	Result 106ug/kg
554631002 (EL-SS-Approx Discharge)	Benzo(b)fluoranthene	Result 602ug/kg

Additional Comments

Diphenylamine Statement

Diphenylamine has now superseded N-Nitroso-diphenylamine as a CCC in EPA Method 8270C. Previous versions of EPA Method 8270 (prior to 8270C) listed N-Nitroso-diphenylamine as a CCC. However, as stated in EPA Method 8270C, Revision 3, December, 1996, Section 1.4.5, "N-Nitroso-diphenylamine decomposes in the gas chromatographic inlet and cannot be separated from Diphenylamine." Studies of these two compounds at GEL, both independent of each other and together, show that they not only coelute, but also have similar mass

spectra. The GEL Mobile Lab will report N-Nitroso-diphenylamine and Diphenylamine as N-Nitroso-diphenylamine on all reports and forms.

Metals

Product: Determination of Metals by ICP

Analytical Method: SW846 3050B/6010D

Analytical Procedure: GL-MA-E-013 REV# 32

Analytical Batch: 2169789

Preparation Method: SW846 3050B

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

Preparation Batch: 2169786

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
554631001	EL-TER-French Drain Discharge
554631002	EL-SS-Approx Discharge
1204901684	Method Blank (MB) ICP
1204901685	Laboratory Control Sample (LCS)
1204901688	554631001(EL-TER-French Drain DischargeL) Serial Dilution (SD)
1204901686	554631001(EL-TER-French Drain DischargeS) Matrix Spike (MS)
1204901687	554631001(EL-TER-French Drain DischargeSD) Matrix Spike Duplicate (MSD)
1204905941	554631001(EL-TER-French Drain DischargePS) Post Spike (PS)

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.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement

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

Sample	Analyte	Value
1204901686 (EL-TER-French Drain DischargeMS)	Calcium	72.2* (75%-125%)
	Manganese	32.8* (75%-125%)
	Zinc	-30.6* (75%-125%)
1204901687 (EL-TER-French Drain DischargeMSD)	Calcium	55.6* (75%-125%)

	Manganese	26.9* (75%-125%)
	Zinc	-34.2* (75%-125%)

Technical Information

Preparation/Analytical Method Verification

Method SW-846 3050B is not a total digestion technique for most samples. It is a very strong acid digestion that will dissolve almost all elements that could become environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not usually mobile in the environment.

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7471B

Analytical Procedure: GL-MA-E-010 REV# 38

Analytical Batch: 2170499

Preparation Method: SW846 7471B Prep

Preparation Procedure: GL-MA-E-010 REV# 38

Preparation Batch: 2170498

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
554631001	EL-TER-French Drain Discharge
554631002	EL-SS-Approx Discharge
1204903056	Method Blank (MB) CVAA
1204903057	Laboratory Control Sample (LCS)
1204903060	552505001(NonSDGL) Serial Dilution (SD)
1204903058	552505001(NonSDGD) Sample Duplicate (DUP)
1204903059	552505001(NonSDGS) Matrix Spike (MS)

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.

Quality Control (QC) Information

Method Blank (MB) Statement

The method blanks (MB) analyzed with this SDG met the acceptance criteria. However, where there were positive hits in the method blank, the results were evaluated and appropriately flagged on the data.

Sample	Analyte	Value
1204903056 (MB)	Mercury	9.8 between (8.01 - 23.9)

General Chemistry

Product: Ion Chromatography

Analytical Method: SW846 9056A

Analytical Procedure: GL-GC-E-086 REV# 29

Analytical Batches: 2170224 and 2170223

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
554631001	EL-TER-French Drain Discharge
554631002	EL-SS-Approx Discharge
1204902400	Method Blank (MB)
1204902401	Laboratory Control Sample (LCS)
1204902403	554631001(EL-TER-French Drain Discharge) Sample Duplicate (DUP)
1204902405	554631001(EL-TER-French Drain Discharge) Matrix Spike (MS)

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.

Quality Control (QC) Information

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

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

Analyte	Sample	Value
Fluoride	1204902405 (EL-TER-French Drain DischargeMS)	43.5* (75%-125%)

Miscellaneous Information

Manual Integrations

Samples 1204902401 (LCS) and 554631001 (EL-TER-French Drain Discharge) were manually integrated to correctly position the baseline as set in the calibration standards.

Radiochemistry

Product: Alphaspec U, Soil

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

Analytical Procedure: GL-RAD-A-011 REV# 28

Analytical Batch: 2169807

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2169720

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
554631001	EL-TER-French Drain Discharge
554631002	EL-SS-Approx Discharge
1204901725	Method Blank (MB)
1204901726	554631001(EL-TER-French Drain Discharge) Sample Duplicate (DUP)
1204901727	Laboratory Control Sample (LCS)

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

Data Summary:

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

Quality Control (QC) Information

Duplication Criteria between QC Sample and Duplicate Sample

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

Sample	Analyte	Value
1204901726 (EL-TER-French Drain DischargeDUP)	Uranium-235/236	RPD 50.1* (0.00%-20.00%) RER 1.8 (0-3)

Product: Dry Weight

Preparation Method: Dry Soil Prep
Preparation Procedure: GL-RAD-A-021 REV# 24
Preparation Batch: 2169720

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
554631001	EL-TER-French Drain Discharge
554631002	EL-SS-Approx Discharge

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

Data Summary:

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

continuing calibration, instrument controls and process controls where applicable.

Product: Liquid Scint Tc99, Soil

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

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

Analytical Batch: 2169727

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
554631001	EL-TER-French Drain Discharge
554631002	EL-SS-Approx Discharge
1204901573	Method Blank (MB)
1204901574	554631001(EL-TER-French Drain Discharge) Sample Duplicate (DUP)
1204901575	Laboratory Control Sample (LCS)

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

Data Summary:

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

Quality Control (QC) Information

Duplication Criteria between QC Sample and Duplicate Sample

The Sample and Duplicate, (See Below), did not meet the duplication criteria due to the non-homogenous matrix of the samples.

Sample	Analyte	Value
1204901574 (EL-TER-French Drain DischargeDUP)	Technetium-99	RPD 112* (0.00%-20.00%)

Technical Information

Recounts

Samples 1204901574 (EL-TER-French Drain DischargeDUP) and 554631001 (EL-TER-French Drain Discharge) were recounted to verify sample results. The recount results are similar to the original results. Original results are reported.

Certification Statement

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

Send Results To: teaguec@westinghouse.com
 *For composites - indicate start and stop date/time

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (3)	Field Filtered (4)	Sample Matrix (6)	Should this sample be considered: (7) Known or possible hazards isotopic info)	Total number of containers	ASP-U	TC-99	Fluoride	Nitrates	TAL Metals	VOCs	SVOCs*	Comments
EL-TER-French Drain Discharge	8/31/2021	0859	G	N	SO		4	X	X	X	X	X	X	X	*No Pesticides or Herbicides
EL-SS-Approx Discharge	8/31/2021	1039	G	N	SO		4	X	X	X	X	X	X	X	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	9/1/21	1006	<i>[Signature]</i>	9/1/21	1113
<i>[Signature]</i>	9/1/21	1530	<i>[Signature]</i>	9/1/21	1500

TAT Requested: Normal: Rush: Specify 7 day turnaround (Subject to Surchage)
 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: 4 °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, 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**
 Characteristic Hazards: FL = Flammable/Ignitable, CO = Corrosive, RE = Reactive
 Listed Waste: LW = Listed Waste (F,K,P and U-listed wastes.)
 Other: OT = Other / Unknown misc. health hazards, etc.)
 RCRA Metals: As = Arsenic, Hg = Mercury, Ba = Barium, Se = Selenium, Cd = Cadmium, Ag = Silver, Cr = Chromium, MR = Misc. RCRA metals
 TSCA Regulated: PCB = Polychlorinated biphenyls
 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.)

SH

SAMPLE RECEIPT & REVIEW FORM

Client: WNLC SDG/AR/COC/Work Order: 554631
 Received By: BE Date Received: 9/10/21
 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.
 Hazard Class Shipped: _____ UN#: _____
 If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
 A) Shipped as a DOT Hazardous? 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: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>4</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>IR2-21</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:
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If any <u>any</u> acid. Lot#: _____ If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	<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 NRLG Date 9/21/21 Page 1 of 1

List of current GEL Certifications as of 15 September 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	SC000122021-35
Vermont	VT87156
Virginia NELAP	460202
Washington	C780