



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-21-47

June 18, 2021

**Subject: Proposed Actions Resulting from the June 2021 Virtual Meeting**

Mrs. Kuhn:

Please find attached for your review the proposed actions resulting from the June 17, 2021 virtual meeting between South Carolina Department of Health and Environmental Control, AECOM Technical Services Inc., and Westinghouse Columbia Fuel Fabrication Facility discussing the multimedia results from the most recent Phase II Remedial Investigation work.

Respectfully,

A handwritten signature in blue ink that reads 'Diana P. Joyner'.

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

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

Enc.: June 2021 Virtual Meeting Proposed Actions, prepared by AECOM dated June 18, 2021

June 18, 2021

Ms. Kimberly M. Kuhn, Project Manager  
State Voluntary Cleanup Section  
Division of Site Assessment, Remediation and Revitalization  
Bureau of Land and Waste Management  
2600 Bull Street  
Columbia, S.C. 29201

**Subject: Columbia Fuel Fabrication Facility  
Richland County, S.C.  
Consent Agreement CA-19-02-HW  
File # 51377**

Dear Ms. Kuhn:

Westinghouse Electric Company Inc. Columbia Fuel Fabrication Facility, AECOM Technical Services, Inc. (AECOM), and South Carolina Department of Health and Environmental Control personnel met virtually on Thursday June 17, 2021 to discuss multimedia sampling results that were received since our previous meeting held on April 22, 2021 as part of Phase II of the Remedial Investigation. The primary media discussed during this June meeting were groundwater and soil.

The discussions resulted in the parties agreeing to the following actions:

- Properly abandon monitoring well W-4 and replace the well with monitoring well W-4R (proposed screened interval is 5 to 15 feet below ground surface [bgs]) to be installed approximately 25 feet west of its current location and adjacent to monitoring well W-3A,
- Surficial aquifer - upper and lower zone paired wells near the locations of groundwater screening borings L-23 (proposed designation W-120 and W-121), L-51 (proposed designation W-117 and W-118), L-59 (proposed designation W-115 and W-116) and L-61 (proposed designation W-113 and W-114) to monitor for chlorinated volatile organic compounds (CVOCs) and/or define the northern extent of CVOC impact to groundwater,
- One surficial aquifer - upper zone well (proposed designation W-119) installed adjacent to groundwater screening point L-49 to monitor for CVOC,
- One surficial aquifer - lower zone well (proposed designation W-122) installed adjacent to groundwater screening point L-62 and paired with surficial aquifer - upper zone monitoring well W-36 to define the northeastern extent of CVOC impact to groundwater,
- One surficial aquifer - lower zone well (proposed designation W-123) installed adjacent to groundwater screening point L-39 and paired with surficial aquifer - upper zone monitoring well W-13R to define the eastern extent of technetium-99 impact to groundwater and impact of other constituents of potential concern to groundwater in this area of the facility,
- Three surficial aquifer - lower zone wells paired with surficial aquifer - upper zone wells W-96 (proposed designation W-126), W-104 (proposed designation W-124) and W-105 (proposed designation W-125) to define the southern extent of CVOC impact to groundwater,

- Installation of a piezometer (proposed designation PZ-1) screened from 7 to 17 feet bgs in the uppermost saturated sand adjacent to the well pair of W-96 described above, and
- Four additional pressure transducers be installed in W-96, proposed well W-126, proposed piezometer PZ-1 and proposed well W-125 to assist in understanding the groundwater-surface water interaction within the floodplain.

Proposed well locations are displayed on **Figure 1**. The surficial aquifer - upper zone wells will be installed with 10-foot screens except for proposed well W-119. Groundwater from the 29-33 feet bgs screening interval in boring L-49 contained greater CVOC impact than the other screening intervals (15-19 feet bgs and 37.5-41.5 feet bgs) in this boring. This well is intended to screen a similar depth using a five-foot screen at an interval 28 to 33 feet bgs. Surficial aquifer - lower zone wells will be installed at the top of the Black Mingo Clay with five-foot screens.

The analytical results of 26 soil samples (not including quality assurance/quality control samples) that were collected on May 29, 2021 as described in the May 4, 2021 letter were shared with DHEC during the conference call. A copy of the analytical results data is attached to this letter and are tabularized in **Table 1**. Locations of these soil samples are as displayed on **Figure 2** of the May 4, 2021 letter. These sample locations will be surveyed as part of the next survey campaign for RI work.

Should you have any questions regarding the information provided in this letter, please do not hesitate to contact me at (803) 422-2910.

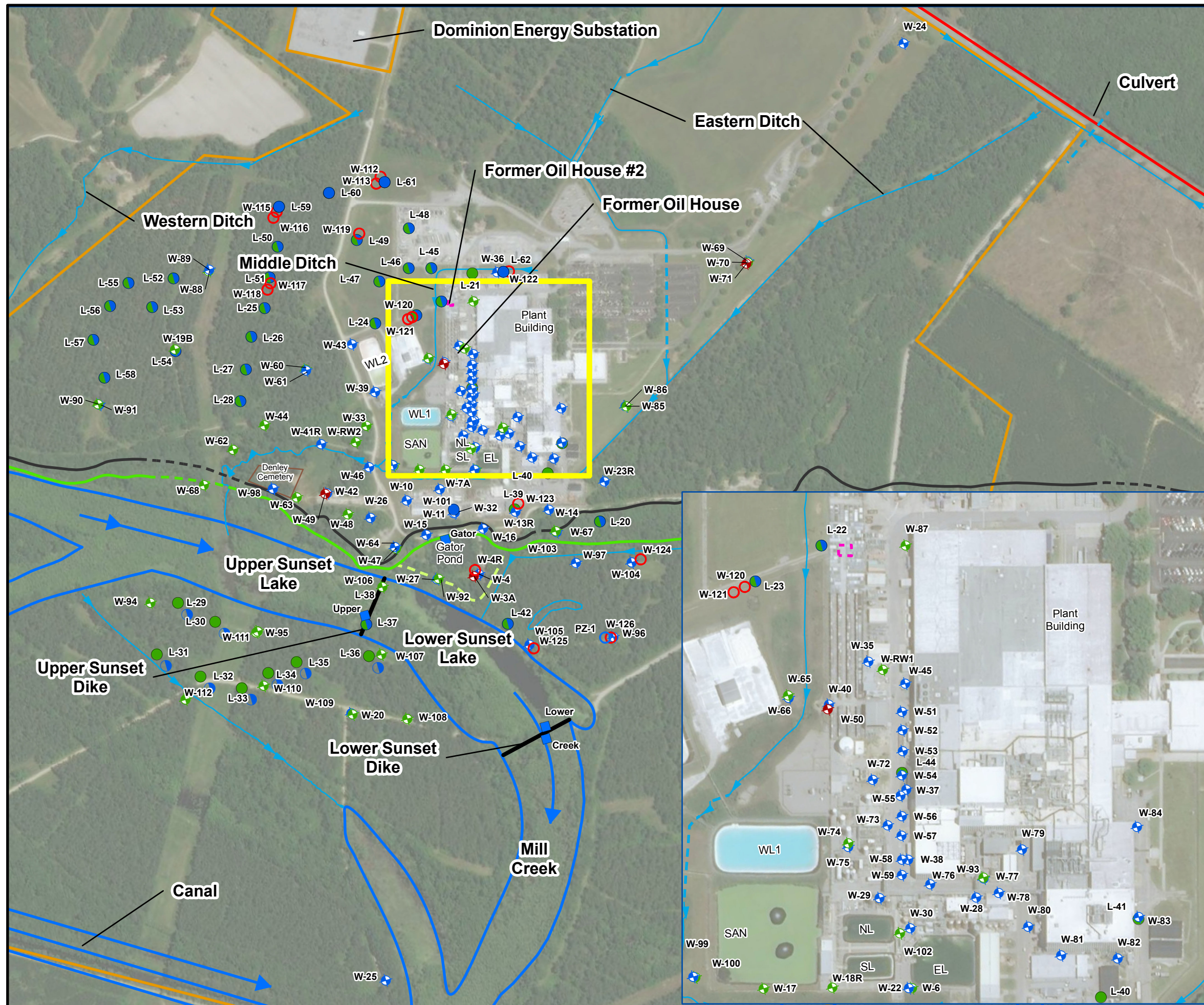
Sincerely,



Jeremy Grant  
Project Manager

Attachments: Figure 1 –Proposed Well Location Map  
Table 1 – Soil Analytical Results  
Pace Analytical Report of Analysis – WF01013





**Legend**

- Surficial Aquifer - Upper Zone Monitoring Well
- Surficial Aquifer - Lower Zone Monitoring Well
- Black Mingo Aquifer Monitoring Well
- Proposed Surficial Aquifer Monitoring Well Location
- Proposed Surficial Aquifer Piezometer - Upper Zone
- Surficial Aquifer Groundwater Screening Location - Upper Zone
- Surficial Aquifer Groundwater Screening Location - Upper and Lower Zones
- Surficial Aquifer Groundwater Screening Location - Lower Zone
- Staff Gauge Location
- Ditch
- Culvert
- Dike Location
- Mill Creek Flow Direction
- Mill Creek
- Property Line
- SCRDI Bluff Road (Superfund Site)
- Former Oil House #2
- Top of Bluff
- Inferred Top of Bluff
- Bottom of Bluff
- Inferred Bottom of Bluff
- Secondary Bluff Area
- EL East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon I
- WL2 West Lagoon II

0 300 600 Feet  
1:7,200

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet  
Datum: North American 1983

**AECOM** 101 Research Drive  
Columbia, SC 29203  
T: (803) 254-4400 F: (803) 771-6676

**Proposed Well Location Map**  
WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
HOPKINS, SOUTH CAROLINA

PROJECT NO. 60595649	PREPARED BY: CCS	DATE: June 2021	<b>FIGURE 1</b>
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Table 1 - Soil Analytical Results  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Sample	Date	Depth	Analyte		1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-	Tetrachloroethene	trans-1,2-	Trichloroethene	Vinyl chloride
			Units	ug/kg	ug/kg	Dichloroethene	ug/kg	Dichloroethene	ug/kg	ug/kg	ug/kg
			Type	Result	Result	Result	Result	Result	Result	Result	Result
SS-17-3-4	5/29/2021	3-4 ft	N	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
SS-17-7-8	5/29/2021	7-8 ft	N	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6
SS-18-2-3	5/29/2021	2-3 ft	N	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4
SS-18-7-8	5/29/2021	7-8 ft	N	< 5.1	< 5.1	< 5.1	< 5.1	< 5.1	< 5.1	< 5.1	< 5.1
SS-19-6-7	5/29/2021	6-7 ft	N	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4
SS-19-7-8	5/29/2021	7-8 ft	N	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9
SS-20-1-2	5/29/2021	1-2 ft	N	< 4.3	< 4.3	< 4.3	21	< 4.3	17	< 4.3	< 4.3
SS-20-7-8	5/29/2021	7-8 ft	N	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
SS-21-1-2	5/29/2021	1-2 ft	N	< 4.6	< 4.6	< 4.6	5.8	< 4.6	< 4.6	< 4.6	< 4.6
SS-21-7-8	5/29/2021	7-8 ft	N	< 5.1	< 5.1	< 5.1	< 5.1	< 5.1	< 5.1	< 5.1	< 5.1
SS-22-6-7	5/29/2021	6-7 ft	N	< 5.2	< 5.2	< 5.2	< 5.2	< 5.2	< 5.2	< 5.2	< 5.2
SS-22-7-8	5/29/2021	7-8 ft	N	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
SS-22-7-8 DUP	5/29/2021	7-8 ft	FD	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
SS-23-6-7	5/29/2021	6-7 ft	N	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9
SS-23-7-8	5/29/2021	7-8 ft	N	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7
SS-24-3-4	5/29/2021	3-4 ft	N	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6
SS-24-7-8	5/29/2021	7-8 ft	N	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
SS-25-5-6	5/29/2021	5-6 ft	N	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
SS-25-7-8	5/29/2021	7-8 ft	N	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
SS-26-3-4	5/29/2021	3-4 ft	N	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7
SS-26-7-8	5/29/2021	7-8 ft	N	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
SS-27-1-2	5/29/2021	1-2 ft	N	< 4.3	< 4.3	11	< 4.3	< 4.3	8.1	< 4.3	< 4.3
SS-27-7-8	5/29/2021	7-8 ft	N	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6
SS-27-7-8 DUP	5/29/2021	7-8 ft	FD	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
SS-28-1-2	5/29/2021	1-2 ft	N	< 4.7	< 4.7	< 4.7	9.3	< 4.7	12	< 4.7	< 4.7
SS-28-7-8	5/29/2021	7-8 ft	N	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9
SS-29-4-5	5/29/2021	4-5 ft	N	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4
SS-29-7-8	5/29/2021	7-8 ft	N	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4

Notes:  
N - normal sample  
FD - field duplicate sample  
ft - feet  
ug/kg - micrograms per kilogram  
Bold concentrations indicate detections



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## Report of Analysis

**Westinghouse Electric Company**  
5801 Bluff Rd.  
Hopkins, SC 29061  
Attention: Diana Joyner

Project Name: CVOC

Lot Number: **WF01013**

Date Completed: 06/09/2021

06/10/2021 10:09 AM  
Approved and released by:  
Project Manager I: **Blaire M. Gagne**



The electronic signature above is the equivalent of a handwritten signature.  
This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

# PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

## Case Narrative Westinghouse Electric Company Lot Number: WF01013

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

### **Volatile Organic Analysis- Method 8260D**

Matrix spike/matrix spike duplicate was not performed for batch 94841 due to insufficient volume. An LCS/LCSD was run instead.

# PACE ANALYTICAL SERVICES, LLC

**Sample Summary**  
**Westinghouse Electric Company**  
**Lot Number: WF01013**  
**Project Name: CVOC**  
**Project Number:**

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SS-17-3-4	Solid	05/29/2021 1005	06/01/2021
002	SS-17-7-8	Solid	05/29/2021 1015	06/01/2021
003	SS-18-2-3	Solid	05/29/2021 1030	06/01/2021
004	SS-18-7-8	Solid	05/29/2021 1040	06/01/2021
005	SS-19-6-7	Solid	05/29/2021 1050	06/01/2021
006	SS-19-7-8	Solid	05/29/2021 1100	06/01/2021
007	SS-21-1-2	Solid	05/29/2021 1115	06/01/2021
008	SS-21-7-8	Solid	05/29/2021 1125	06/01/2021
009	SS-20-7-8	Solid	05/29/2021 1135	06/01/2021
010	SS-20-1-2	Solid	05/29/2021 1145	06/01/2021
011	SS-22-6-7	Solid	05/29/2021 1215	06/01/2021
012	SS-22-7-8	Solid	05/29/2021 1225	06/01/2021
013	SS-22-7-8 DUP	Solid	05/29/2021 1225	06/01/2021
014	SS-23-6-7	Solid	05/29/2021 1240	06/01/2021
015	SS-23-7-8	Solid	05/29/2021 1250	06/01/2021
016	SS-24-3-4	Solid	05/29/2021 1300	06/01/2021
017	EB-01-052921	Aqueous	05/29/2021 1315	06/01/2021
018	SS-24-7-8	Solid	05/29/2021 1330	06/01/2021
019	SS-25-5-6	Solid	05/29/2021 1345	06/01/2021
020	SS-25-7-8	Solid	05/29/2021 1355	06/01/2021
021	SS-26-3-4	Solid	05/29/2021 1405	06/01/2021
022	SS-26-7-8	Solid	05/29/2021 1420	06/01/2021
023	SS-27-1-2	Solid	05/29/2021 1435	06/01/2021
024	SS-27-7-8	Solid	05/29/2021 1445	06/01/2021
025	SS-27-7-8 Dup	Solid	05/29/2021 1445	06/01/2021
026	SS-28-1-2	Solid	05/29/2021 1545	06/01/2021
027	SS-28-7-8	Solid	05/29/2021 1555	06/01/2021
028	SS-29-4-5	Solid	05/29/2021 1620	06/01/2021
029	SS-29-7-8	Solid	05/29/2021 1635	06/01/2021
030	TB-01-052921	Aqueous	05/29/2021 1020	06/01/2021
031	TB-02-052921	Aqueous	05/29/2021 1340	06/01/2021
032	EB-02-052921	Aqueous	05/29/2021 1555	06/01/2021

(32 samples)



# PACE ANALYTICAL SERVICES, LLC

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**Detection Summary**  
**Westinghouse Electric Company**  
**Lot Number: WF01013**  
**Project Name: CVOC**  
**Project Number:**

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
007	SS-21-1-2	Solid	Tetrachloroethene	8260D	5.8		ug/kg	12
010	SS-20-1-2	Solid	Tetrachloroethene	8260D	21		ug/kg	15
010	SS-20-1-2	Solid	Trichloroethene	8260D	17		ug/kg	15
023	SS-27-1-2	Solid	cis-1,2-Dichloroethene	8260D	11		ug/kg	28
023	SS-27-1-2	Solid	Trichloroethene	8260D	8.1		ug/kg	28
026	SS-28-1-2	Solid	Tetrachloroethene	8260D	9.3		ug/kg	31
026	SS-28-1-2	Solid	Trichloroethene	8260D	12		ug/kg	31

(7 detections)

# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-001</b>
Description: <b>SS-17-3-4</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1005</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>92.0 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1352	JM1		94223	5.43

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		5.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.0	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		94	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)  
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-002</b>
Description: <b>SS-17-7-8</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1015</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>88.4 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1304	JM1		94223	6.09

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.6	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.6	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.6	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.6	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.6	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.6	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.6	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	47-138
1,2-Dichloroethane-d4		87	53-142
Toluene-d8		101	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)  
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-003</b>
Description: <b>SS-18-2-3</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1030</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>91.5 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1415	JM1		94223	6.21

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.4	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.4	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.4	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.4	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.4	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.4	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		92	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)  
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-004</b>
Description: <b>SS-18-7-8</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1040</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>90.8 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1437	JM1		94223	5.36

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		5.1	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.1	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.1	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.1	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.1	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.1	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.1	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		104	47-138
1,2-Dichloroethane-d4		97	53-142
Toluene-d8		100	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-005</b>
Description: <b>SS-19-6-7</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1050</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>91.4 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1503	JM1		94223	6.20

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.4	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.4	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.4	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.4	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.4	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.4	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	47-138
1,2-Dichloroethane-d4		92	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-006</b>
Description: <b>SS-19-7-8</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1100</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>87.2 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1526	JM1		94223	5.87

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.9	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.9	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.9	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.9	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.9	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.9	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.9	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		103	47-138
1,2-Dichloroethane-d4		93	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-007</b>
Description: <b>SS-21-1-2</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1115</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>90.8 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1549	JM1		94223	6.01

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.6	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.6	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.6	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.6	ug/kg	1
<b>Tetrachloroethene</b>	<b>127-18-4</b>	<b>8260D</b>	<b>5.8</b>		<b>4.6</b>	<b>ug/kg</b>	<b>1</b>
Trichloroethene	79-01-6	8260D	ND		4.6	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.6	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	47-138
1,2-Dichloroethane-d4		91	53-142
Toluene-d8		105	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-008</b>
Description: <b>SS-21-7-8</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1125</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>88.9 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1611	JM1		94223	5.53

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		5.1	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.1	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.1	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.1	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.1	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.1	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.1	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		95	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-009</b>
Description: <b>SS-20-7-8</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1135</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	Project Number:
	% Solids: <b>86.5 06/02/2021 0028</b>

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1633	JM1		94223	5.79

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		5.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.0	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		95	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-010</b>
Description: <b>SS-20-1-2</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1145</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>89.9 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1656	JM1		94223	6.45

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.3	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.3	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.3	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.3	ug/kg	1
<b>Tetrachloroethene</b>	<b>127-18-4</b>	<b>8260D</b>	<b>21</b>		<b>4.3</b>	<b>ug/kg</b>	<b>1</b>
<b>Trichloroethene</b>	<b>79-01-6</b>	<b>8260D</b>	<b>17</b>		<b>4.3</b>	<b>ug/kg</b>	<b>1</b>
Vinyl chloride	75-01-4	8260D	ND		4.3	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	47-138
1,2-Dichloroethane-d4		92	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-011</b>
Description: <b>SS-22-6-7</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1215</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>89.2 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1719	JM1		94223	5.43

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		5.2	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.2	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.2	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.2	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.2	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.2	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.2	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		103	47-138
1,2-Dichloroethane-d4		95	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-012</b>
Description: <b>SS-22-7-8</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1225</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>88.8 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1742	JM1		94223	5.87

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.8	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		94	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-013</b>
Description: <b>SS-22-7-8 DUP</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1225</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>87.4 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1805	JM1		94223	5.97

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.8	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		103	47-138
1,2-Dichloroethane-d4		95	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-014</b>
Description: <b>SS-23-6-7</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1240</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>87.3 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1828	JM1		94223	5.86

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.9	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.9	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.9	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.9	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.9	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.9	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.9	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	47-138
1,2-Dichloroethane-d4		91	53-142
Toluene-d8		101	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-015</b>
Description: <b>SS-23-7-8</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1250</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>87.7 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1234	JM1		94375	6.10

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.7	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.7	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.7	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.7	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.7	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.7	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.7	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	47-138
1,2-Dichloroethane-d4		94	53-142
Toluene-d8		104	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-016</b>
Description: <b>SS-24-3-4</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1300</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>85.2 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1256	JM1		94375	6.33

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.6	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.6	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.6	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.6	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.6	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.6	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.6	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		94	53-142
Toluene-d8		104	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-017</b>
Description: <b>EB-01-052921</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>05/29/2021 1315</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	06/09/2021 0159	CJL2		94841

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		87	70-130
Toluene-d8		92	70-130

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-018</b>
Description: <b>SS-24-7-8</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1330</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>86.3 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1319	JM1		94375	5.99

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.8	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		104	47-138
1,2-Dichloroethane-d4		97	53-142
Toluene-d8		105	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-019</b>
Description: <b>SS-25-5-6</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1345</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>87.8 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1341	JM1		94375	5.95

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.8	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	47-138
1,2-Dichloroethane-d4		95	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-020</b>
Description: <b>SS-25-7-8</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1355</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>88.6 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1404	JM1		94375	5.84

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.8	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		94	53-142
Toluene-d8		101	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-021</b>
Description: <b>SS-26-3-4</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1405</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>88.2 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1427	JM1		94375	6.03

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.7	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.7	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.7	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.7	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.7	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.7	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.7	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		95	53-142
Toluene-d8		100	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-022</b>
Description: <b>SS-26-7-8</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1420</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>84.5 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1450	JM1		94375	6.13

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.8	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		95	53-142
Toluene-d8		101	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-023</b>
Description: <b>SS-27-1-2</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1435</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>88.8 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1513	JM1		94375	6.53

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.3	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.3	ug/kg	1
<b>cis-1,2-Dichloroethene</b>	<b>156-59-2</b>	<b>8260D</b>	<b>11</b>		<b>4.3</b>	<b>ug/kg</b>	<b>1</b>
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.3	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.3	ug/kg	1
<b>Trichloroethene</b>	<b>79-01-6</b>	<b>8260D</b>	<b>8.1</b>		<b>4.3</b>	<b>ug/kg</b>	<b>1</b>
Vinyl chloride	75-01-4	8260D	ND		4.3	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	47-138
1,2-Dichloroethane-d4		92	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-024</b>
Description: <b>SS-27-7-8</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1445</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>84.7 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1536	JM1		94375	6.43

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.6	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.6	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.6	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.6	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.6	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.6	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.6	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	47-138
1,2-Dichloroethane-d4		92	53-142
Toluene-d8		100	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-025</b>
Description: <b>SS-27-7-8 Dup</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1445</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>81.9 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1558	JM1		94375	6.12

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		5.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.0	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	47-138
1,2-Dichloroethane-d4		93	53-142
Toluene-d8		100	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-026</b>
Description: <b>SS-28-1-2</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1545</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>82.8 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1621	JM1		94375	6.47

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.7	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.7	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.7	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.7	ug/kg	1
<b>Tetrachloroethene</b>	<b>127-18-4</b>	<b>8260D</b>	<b>9.3</b>		<b>4.7</b>	<b>ug/kg</b>	<b>1</b>
<b>Trichloroethene</b>	<b>79-01-6</b>	<b>8260D</b>	<b>12</b>		<b>4.7</b>	<b>ug/kg</b>	<b>1</b>
Vinyl chloride	75-01-4	8260D	ND		4.7	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	47-138
1,2-Dichloroethane-d4		92	53-142
Toluene-d8		104	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-027</b>
Description: <b>SS-28-7-8</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1555</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>78.6 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1710	JM1		94375	6.54

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.9	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.9	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.9	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.9	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.9	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.9	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.9	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	47-138
1,2-Dichloroethane-d4		90	53-142
Toluene-d8		100	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-028</b>
Description: <b>SS-29-4-5</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1620</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>90.9 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1733	JM1		94375	6.20

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.4	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.4	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.4	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.4	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.4	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.4	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		104	47-138
1,2-Dichloroethane-d4		97	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-029</b>
Description: <b>SS-29-7-8</b>	Matrix: <b>Solid</b>
Date Sampled: <b>05/29/2021 1635</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	% Solids: <b>85.6 06/02/2021 0028</b>
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1815	JM1		94375	6.67

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.4	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.4	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.4	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.4	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.4	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.4	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	47-138
1,2-Dichloroethane-d4		94	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-030</b>
Description: <b>TB-01-052921</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>05/29/2021 1020</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	06/09/2021 0224	CJL2		94841

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	70-130
1,2-Dichloroethane-d4		87	70-130
Toluene-d8		91	70-130

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-031</b>
Description: <b>TB-02-052921</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>05/29/2021 1340</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	06/09/2021 0249	CJL2		94841

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		95	70-130
1,2-Dichloroethane-d4		86	70-130
Toluene-d8		91	70-130

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: <b>Westinghouse Electric Company</b>	Laboratory ID: <b>WF01013-032</b>
Description: <b>EB-02-052921</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>05/29/2021 1555</b>	Project Name: <b>CVOC</b>
Date Received: <b>06/01/2021</b>	Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	06/09/2021 0314	CJL2		94841

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	70-130
1,2-Dichloroethane-d4		85	70-130
Toluene-d8		91	70-130

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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**Chain of Custody  
and  
Miscellaneous Documents**

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**Number 121686**

Client: <u>Westinghouse</u> Address: <u>5001 Bluff Rd</u> City: <u>Hopkins</u> Project Name: <u>R.F. Phase II</u>	Report to Contract: <u>Pravda Soyler</u> Sampler's Signature: <u>Check K. Subeth</u> Printed Name: <u>Check Subeth</u>	Telephone No. / E-mail: <u>703-271-0100 / westinghouse.com</u> Analysis (Attach list if more space is needed)	Quote No.: _____ Page <u>1</u> of <u>4</u>
Project No.: _____ Sample ID / Description (Containers for each sample may be combined on one line.)		No. of Containers by Preservative type	
F.O. No.: _____ Collection Time (Military)		Matrix:	
Sample ID / Description (Containers for each sample may be combined on one line.)		Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown	
Sample ID / Description (Containers for each sample may be combined on one line.)		1. Received by: _____ Date: _____ Time: _____	
Sample ID / Description (Containers for each sample may be combined on one line.)		2. Received by: _____ Date: _____ Time: _____	
Sample ID / Description (Containers for each sample may be combined on one line.)		3. Received by: _____ Date: _____ Time: _____	
Sample ID / Description (Containers for each sample may be combined on one line.)		4. Laboratory received by: <u>Dr. J. J. Williams</u> Date: <u>10/5</u>	
Turn Around Time Required (Prior lab approval required for expedited TAT.) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)		LAG USE ONLY Received on Ice (Circle) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Receipt Temp: <u>3.2</u> °C	
Turn Around Time Required (Prior lab approval required for expedited TAT.) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)		Temp Blank <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	



**WF01013**

Matrix: \_\_\_\_\_  
 Remarks / Cooler I.D.: \_\_\_\_\_

Matrix: \_\_\_\_\_  
 Possible Hazard Identification: \_\_\_\_\_

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Laboratory received by: Dr. J. J. Williams Date: 10/5

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: MF00302-01  
 2.3°C  
 4.0°C



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Number 121683

Client: Westlinghouse  
 Address: 5501 Bluff Rd  
 City: Hopkins State: SC Zip Code: 29064  
 Project Name: RI Phase II  
 Project No.:

Report to Contact: Dr. Jayner  
 Sampler's Signature: [Signature]  
 Printed Name: Chuck Sublett

Telephone No. / E-mail: 803-791-9700 / jayner@westlinghouse.com  
 Analysis (Attach list if more space is needed)

Circle No. \_\_\_\_\_ Page 2 of 4  
 Barcode: WF01013  
 BVM \_\_\_\_\_  
 Remarks / Cooler ID: \_\_\_\_\_

Sample ID / Description (Containers for each sample may be included on one line.)	Collection Date(s)	Collection Time (Military)	Matrix					No. of Containers by Preservative Type					GC Requirements (Specify)						
			Water	Soil	Sludge	Other	Blank	None	10% NaOH	10% HCl	10% Acetic	Other							
SS-22-6-7	5/24/21	12:15	X																
SS-22-7-8	5/24/21	12:25	X																
SS-22-7-8-DP	5/24/21	12:25	X																
SS-23-6-7	5/24/21	12:40	X																
SS-23-7-8	5/24/21	12:50	X																
SS-24-3-4	5/24/21	13:00	X																
FB-01-052921	5/29/21	13:15	X																
SS-24-7-8	5/29/21	13:30	X																
SS-24-7-8-M's	5/29/21	13:30	X																
SS-24-7-8-M's-D	5/29/21	13:30	X																

Turn Around Time Required (Prior lab approval required for expedited TAT):  
 Standard  Rush (Specify) \_\_\_\_\_  
 Return to Client  Dispose by Lab  Non-Hazard  Environmental  Flammable  Volatile  Other \_\_\_\_\_

1. Requisitioned by: [Signature] Date: 5/21/21 Time: 10:15  
 2. Requisitioned by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Requisitioned by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 4. Requisitioned by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

LAB USE ONLY  
 Received on ice (Circle): Yes No  
 Received Temp: 3-2 °C  
 Date: 5/21/21 Time: 10:15  
 Received by: [Signature]  
 Received on ice (Circle): Yes No  
 Received Temp: 3-2 °C  
 Date: 5/21/21 Time: 10:15  
 Received by: [Signature]

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Clean Copy  
 Document Number: MEV5162-01  
 2.338  
 4.06



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**Number 121585**

Client: <u>Westinghouse</u> Address: <u>5001 Bluff Rd</u> City: <u>Hopkins</u> Project Name: <u>RIS Phase II</u>	Report to Contact: <u>Diane Joyner</u> Sampler's Signature: <u>Christa K. Spletz</u> Printed Name: <u>Christa K. Spletz</u>	Telephone No. / E-mail: <u>803-791-9700 / westinghouse.com</u> Analysis (Attach list if more space is needed)	Coche No.: _____ Page: <u>3</u> of <u>4</u>			
State: <u>SC</u> Zip Code: <u>29106</u>		Barcode: <b>WFO1013</b> BMC: _____ Remarks / Cooler I.D.: _____				
Project No.	Sample ID / Description (Containers for each sample only to be completed on one line.)	Collection Date(s)	Collection Time (HH:MM)	Matrix	No. of Containers by Preservative Type	GC Requirements (Specify)
	SS-25-5-6	5/21/21	13:45	6	5	
	SS-25-7-8	5/21/21	13:55	6	5	
	SS-26-3-4	5/21/21	14:05	6	5	
	SS-26-7-8	5/21/21	14:20	6	5	
	SS-27-1-2	5/21/21	14:35	6	5	
	SS-27-7-8	5/21/21	14:45	6	5	
	SS-27-7-8-DP	5/21/21	14:45	6	5	
	SS-28-1-2	5/21/21	15:45	6	5	
	SS-28-7-8	5/21/21	15:55	6	5	

**Turn Around Time Required (Prior lab approval required for expedited TAT):**  
 Return to Client  Dispose by Lab  Fair-Hazard  Flammable  Skin Irritant  Toxic  Unknown

1. Requisitioned by: Christa K. Spletz Date: 6/1/21 Time: 10:15  
 2. Requisitioned by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Requisitioned by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 4. Requisitioned by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

4. Laboratory received by: Angie Goodwin Date: 6/1/21 Time: 10:15  
 LAB USE ONLY  
 Recycled on lbs (Circle) Yes  No  Inc. Packed  Recog. Temp. 3.2°C  
2.3°C  
4.0°C

**Note:** All samples are retained for four weeks from receipt unless other arrangements are made.

**DISTRIBUTION:** WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: MEUC0102-01

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**Number 121684**

Client: <i>Westinghouse</i> Address: <i>5801 Bluff Rd</i> City: <i>Hopkins</i> Project Name: <i>RIS Phase II</i>	Report to Contact: <i>Diana Toyper</i> Sampler's Signature: <i>Charles K Suddeth</i> Printed Name: <i>Charles K Suddeth</i>	Telephone No. / E-mail: <i>803-791-9700 / dtoyper@westinghouse.com</i> Analysis (Alphabetical if more than one is required)	Quote No.: _____ Page: <i>4</i> of <i>4</i> BMS: <b>WF01013</b> Remarks / Cooler ID: _____	
Project No. _____ Sample ID / Description (Containers for each sample may be collected on one line)	Collection Date (s)	Collection Time (M:SS)	Matrix: <input type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Sludge <input type="checkbox"/> Other	No. of Containers by Preservative Type:
SS-29-4-S SS-29-4-S-MS SS-29-4-S-MSD SS-29-7-B TB-01-052921 TB-02-052921 EB-02-052921	5/29/21 5/29/21 5/29/21 5/29/21 5/29/21 5/29/21 5/29/21	1620 1620 1620 1635 1020 1340 1955	X X X X X X X	5 5 5 5 2 2 3
Turn Around Time Required (Prior lab approval required for expedited TAT) [S-Standard] [L-Rush (Specify)]	Sample Disposal: <input checked="" type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab	Possible Hazard Identification: <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Infectious	QC Requirements (Specify)	Date: _____ Time: _____ Date: _____ Time: _____ Date: _____ Time: _____
1. Requiring by: <i>Charles K Suddeth</i> Date: <i>5/21/21</i> Time: <i>7:15</i>	2. Requiring by: _____ Date: _____ Time: _____	3. Requiring by: _____ Date: _____ Time: _____	4. Laboratory received by: <i>Amy Buchanan</i> Date: <i>5/21/21</i> Time: <i>1015</i>	LAB USE ONLY Received on ice (Check) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ice Pack <input type="checkbox"/> Receipt Temp: <i>3.2 °C</i> <i>2.3 °C</i> <i>21.0 °C</i>

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Samplest; PINK-Field/Cliant Copy  
 Document Number: MEC0302-01



# PACE ANALYTICAL SERVICES, LLC



Samples Receipt Checklist (SRC) (ME0018C-15)  
Issuing Authority: Pace ENV - WCOL

Revised: 9/29/2020  
Page 1 of 1

## Sample Receipt Checklist (SRC)

Client: Westinghouse Cooler Inspected by/date: JRG2 / 06/01/2021 Lot #: WF01913

Means of receipt: <input type="checkbox"/> Pace <input checked="" type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1. Were custody seals present on the cooler?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: <u>NA</u> Chlorine Strip ID: <u>NA</u> Tested by: <u>NA</u>	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: <u>21-238</u> <u>1.2 / 3.2</u> °C <u>2.3 / 2.3</u> °C <u>4.0 / 4.0</u> °C <u>NA / NA</u> °C	
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: <u>5</u> IR Gun Correction Factor: <u>0</u> °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH <sub>3</sub> /TKN/cyanide/picnol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote #
<b>Sample Preservation</b> (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) <u>NA</u> were received incorrectly preserved and were adjusted accordingly in sample receiving with <u>NA</u> ml. of circle one: H2SO4, HNO3, HCl, NaOH using SR # <u>NA</u> . Time of preservation <u>NA</u> . If more than one preservative is needed, please note in the comments below.	
Sample(s) <u>NA</u> were received with bubbles >6 mm in diameter.	
Sample(s) <u>NA</u> were received with TRC > 0.5 mg/L (If #19 is <i>na</i> ) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ) with Shealy ID: <u>NA</u> .	
SR barcode labels applied by: <u>JRG2</u> Date: <u>06/01/2021</u>	

Comments:

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