Westinghouse Electric Company
Nuclear Fuel
Columbia Fuel Fabrication Facility
5801 Bluff Road
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USA

SCDHEC, BLWM
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Your ref:
Our ref: LTR-RAC-23-01

January 10, 2023

Subject: **December** 2022 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 **December 1, 2022.** The following progress report is for work occurring from **December 1- 31, 2022**:

(a) Actions during the previous month:
In accordance with the **Feasibility Study (FS) Work Plan**, **Item 7** of the CA, Westinghouse began preliminary work as follows:
- AECOM continued preliminary work to develop the groundwater flow model.

(b) Results of sampling and tests:

- **Semi-annual Groundwater Sampling (118 wells)**
  October 2022 Groundwater Analytical Results Summary (constituents of potential concern only) are included as **Attachment A**.

  As discussed on our weekly calls, the complete list of analytes and associated results are not available at this time due to issues at the contracted lab. Westinghouse has entered the issue into its corrective action program (IR 2023-200), and the lab is working to resolve their issues, provide analytical results and implement measures to prevent recurrence. Westinghouse expects a formal response from the lab by February 28, 2023. In January, Westinghouse resampled 21 wells for fluoride and 5 wells for tetrachloroethylene to validate the lab data used for plume map development.

(c) Brief description of all actions which are scheduled for the next month:
To support continued groundwater data collection and analysis from the site:

- Submit in the January monthly report the comprehensive tabulated results of the semiannual groundwater sampling campaign conducted in October 2022 (118 wells).
- Submit an annual update to the State Historic Preservation Office and other interested parties stating there have been no cultural resource activities at the Westinghouse site.
- Continue sealand data compilation to be submitted by February to complete the *Final* Remedial Investigation Report.

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

- 100% of the **RI Report** scope is completed.
- 100% of Phase II **field** work scope completed.
- 15% of the **Groundwater Flow Model** is 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
P. Donnelly, Regulatory Affairs Manager
ENOVIA Records

Attachment A: October 2022 Groundwater Analytical Results Summary (COPCs, 118 wells)

Attachment A

Groundwater Analytical Results Summary (COPCs)
October 2022 (118 wells)

Attachment A - October 2022 Groundwater Analytical Results Summary
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

		Well	W-RW1	W-RW2	W-RW2	W-3A	W-4R	W-6	W-7A	W-10	W-11	W-13R	W-14	W-15	W-16	W-17	W-17	W-18R	W-19B	W-20	W-22	W-23R	W-24	W-25	W-26
		Date	10/12/2022	10/17/2022	10/17/2022	10/20/2022	10/20/2022	10/7/2022	10/4/2022	10/6/2022	10/4/2022	10/4/2022	10/17/2022	10/17/2022	10/18/2022	10/11/2022	10/11/2022	10/7/2022	10/18/2022	10/20/2022	10/7/2022	10/17/2022	10/21/2022	10/21/2022	10/18/2022
		Type	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N
Analyte	MCL	Units																							
Technetium-99	900	pCi/L	2.72 #	8.92	9.47	0 ##	0.693 #	2380	134	91.6	1530	105	2.02 #	231	9.06	300	518	110	3.61	0.168 #	22.4	2.53 #	0 ##	0 ##	7.24
Uranium-234		ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Uranium-235		ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	0.0318 J	< 0.0700	< 0.0700	0.0115 J	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Uranium-238		ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.175 J	0.477	0.0995 J	< 0.200	0.108 J	0.251	< 0.200	0.216	0.125 J	0.151 J	2.52	< 0.200	< 0.200	0.594	< 0.200	< 0.200	< 0.200	< 0.200
Total Uranium Isotopes	30	ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.175 J	0.477	0.0995 J	< 0.200	0.108 J	0.251	< 0.200	0.216	0.125 J	0.151 J	2.55	< 0.200	< 0.200	0.606	< 0.200	< 0.200	< 0.200	< 0.200
Fluoride	4	mg/L	< 0.10	0.14	0.16	< 0.10	0.11	0.11	6.1	3.1	< 0.10	9.8	< 0.10	1.9	1.6	2.3	2.2	5.0	< 0.10	< 0.10	4.9	< 0.10	< 0.10	< 0.10	1.8
Nitrate as N	10	mg/L	1.8	13	13	< 0.020	0.037	7.4	310	24	35	19	0.22	45	0.76	13	14	380	3.6	< 0.020	58	0.57	0.022	0.17	1.4
cis-1,2-Dichloroethene	70	ug/L	< 1.0	2.2	2.3	< 1.0	< 1.0	2.9	< 1.0	< 1.0	< 1.0	< 1.0	0.4 J	1	0.49 J	1.1	1.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	5	ug/L	1.7	146	144	< 1.0	< 1.0	20	1.2	< 1.0	11	30	1.4	8.3	2.4	6.7	6.4	1.7	68	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	ug/L	< 1.0	5.4	5.3	< 1.0	< 1.0	3.0	< 1.0	< 1.0	1.5	2.7	0.6 J	1.4	0.75 J	1.4	1.3	< 1.0	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	2	ug/L	< 1.0	< 0.39	< 0.39	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Attachment A - October 2022 Groundwater Analytical Results Summary
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

		Well	W-27	W-28	W-29	W-30	W-32	W-33	W-35	W-36	W-37	W-38	W-39	W-40	W-41R	W-42	W-43	W-44	W-45	W-46	W-47	W-48	W-49	W-50
		Date	10/19/2022	10/6/2022	10/10/2022	10/10/2022	10/4/2022	10/13/2022	10/11/2022	10/11/2022	10/10/2022	10/6/2022	10/14/2022	10/11/2022	10/17/2022	10/14/2022	10/14/2022	10/17/2022	10/12/2022	10/14/2022	10/17/2022	10/18/2022	10/19/2022	10/11/2022
		Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	MCL	Units																						
Technetium-99	900	pCi/L	1.86 #	0 ##	10.2	34.0	304	0.711 #	0 ##	0 ##	0 ##	2.60 #	11.3	0 ##	11.9	6.66	3.69	3.04 #	1.90 #	53.0	114	17.9	0.0495 #	0 ##
Uranium-234		ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Uranium-235		ug/L	< 0.0700	0.0302 J	< 0.0700	0.160	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	0.0115 J	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Uranium-238		ug/L	< 0.200	1.61	0.396	6.49	0.164 J	< 0.200	< 0.200	< 0.200	< 0.200	0.101 J	< 0.200	0.0778 J	< 0.200	< 0.200	< 0.200	< 0.200	0.436	< 0.200	< 0.200	< 0.200	0.0673 J	0.213
Total Uranium Isotopes	30	ug/L	< 0.200	1.64	0.396	6.65	0.164 J	< 0.200	< 0.200	< 0.200	< 0.200	0.101 J	< 0.200	0.0778 J	< 0.200	< 0.200	< 0.200	< 0.200	0.447	< 0.200	< 0.200	< 0.200	0.0673 J	0.213
Fluoride	4	mg/L	2.9	5.7	2.7	8.1	3.6	0.15	< 0.10	< 0.10	< 0.10	0.80	< 0.10	0.19	< 0.10	2.1	< 0.10	< 0.10	0.44	< 0.10	3.9	0.36	< 0.10	< 0.10
Nitrate as N	10	mg/L	0.066	12	35	110	150	9.5	4.4	0.88	1.8	3.3	74	3.4	46	4.5	7.6	2.4	< 0.020	8.8	56	5.8	< 0.020	< 0.020
cis-1,2-Dichloroethene	70	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	< 1.0	< 1.0	17	< 1.0	5.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.42 J	1.3	< 1.0	< 1.0
Tetrachloroethene	5	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	170	2.3	< 1.0	< 1.0	< 1.0	200	< 1.0	203	< 1.0	< 1.0	< 1.0	< 1.0	2.8	2.2	160	< 1.0	< 1.0
Trichloroethene	5	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	12	< 1.0	< 1.0	< 1.0	8.2	5.2	< 1.0	13	< 1.0	< 1.0	< 1.0	< 1.0	0.57 J	< 1.0	2.9	< 1.0	< 1.0
Vinyl chloride	2	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.77	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Attachment A - October 2022 Groundwater Analytical Results Summary
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

		Well	W-51	W-52	W-53	W-54	W-55	W-56	W-57	W-58	W-59	W-60	W-61	W-62	W-63	W-64	W-65	W-66	W-67	W-68	W-69	W-70	W-71	W-72
		Date	10/12/2022	10/12/2022	10/10/2022	10/10/2022	10/7/2022	10/7/2022	10/7/2022	10/7/2022	10/7/2022	10/14/2022	10/14/2022	10/17/2022	10/13/2022	10/17/2022	10/13/2022	10/13/2022	10/17/2022	10/17/2022	10/18/2022	10/18/2022	10/19/2022	10/11/2022
		Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	MCL	Units																						
Technetium-99	900	pCi/L	1.14 #	1.69 #	1.77 #	0 ##	0.383 #	1.08 #	0.260 #	0.423 #	5.68	1.52 #	1.49 #	1.47 #	16.9	126	0.216 #	0 ##	58.4	2.34 #	2.83 #	3.53	0 ##	0.362 #
Uranium-234		ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	0.0300 J	0.0780	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Uranium-235		ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	3.45	9.10	< 0.0700	0.0263 J	0.121	< 0.0700	< 0.0700	< 0.0700	0.0108 J	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Uranium-238		ug/L	< 0.200	0.132 J	< 0.200	< 0.200	103	282	0.319	0.819	3.89	< 0.200	< 0.200	< 0.200	1.46	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.0959 J	0.276
Total Uranium Isotopes	30	ug/L	< 0.200	0.132 J	< 0.200	< 0.200	107	291	0.319	0.845	4.02	< 0.200	< 0.200	< 0.200	1.47	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.0959 J	0.276
Fluoride	4	mg/L	0.19	0.57	< 0.10	< 0.10	< 0.10	0.33	< 0.10	0.17	1.8	< 0.10	< 0.10	< 0.10	< 0.10	3.7	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.80
Nitrate as N	10	mg/L	0.077	0.26	< 0.040	1.6	1.6	2.3	1.6	210	27	0.19	3.0	3.8	5.4	57	1.8	1.6	13	3.1	0.062	1.5	0.049	4.1
cis-1,2-Dichloroethene	70	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	18	46	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	5	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	44	2.6	1.8	410	610	34.6	58.4	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.76 J	< 1.0	< 1.0	1.3	< 1.0	50	18	5.6	0.94 J	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	2	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Attachment A - October 2022 Groundwater Analytical Results Summary
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

		Well	W-73	W-74	W-75	W-76	W-77	W-77	W-78	W-79	W-80	W-81	W-82	W-83	W-84	W-85	W-86	W-87	W-88	W-89	W-90	W-92	W-93	W-94	W-95
		Date	10/10/2022	10/10/2022	10/10/2022	10/6/2022	10/6/2022	10/6/2022	10/6/2022	10/5/2022	10/5/2022	10/5/2022	10/5/2022	10/5/2022	10/4/2022	10/19/2022	10/19/2022	10/11/2022	10/18/2022	10/18/2022	10/18/2022	10/19/2022	10/6/2022	10/20/2022	10/20/2022
		Type	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	MCL	Units																							
Technetium-99	900	pCi/L	0 ##	0 ##	0.0630 #	0.524 #	25.3	7.54 #	0 ##	0 ##	0 ##	0.951 #	1.01 #	0.616 #	0 ##	0 ##	0 ##	1.14 #	1.33 #	1.89 #	3.48	0.800 #	0 ##	0 ##	0 ##
Uranium-234		ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	0.0390 J	0.0390 J	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Uranium-235		ug/L	< 0.0700	< 0.0700	< 0.0700	0.130	4.63	4.49	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Uranium-238		ug/L	0.129 J	< 0.200	< 0.200	3.84	108	105	0.278	< 0.200	0.222	0.504	0.128 J	< 0.200	< 0.200	< 0.200	< 0.200	0.503	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200
Total Uranium Isotopes	30	ug/L	0.129 J	< 0.200	< 0.200	3.97	113	110	0.278	< 0.200	0.222	0.504	0.128 J	< 0.200	< 0.200	< 0.200	< 0.200	0.503	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200
Fluoride	4	mg/L	< 0.10	< 0.10	< 0.10	2.4	13	3.9	17	0.79	0.19	< 0.10	< 0.10	0.34	< 0.10	0.12	0.44	< 0.10	< 0.10	< 0.10	< 0.10	0.17	< 0.10	< 0.10	< 0.10
Nitrate as N	10	mg/L	1.4	6.0	0.32	13	9.1	8.6	4.7	4.7	6.3	5.7	1.4	1.0	< 0.020	0.062	< 0.020	0.36	3.5	2.5	1.9	0.068	4.6	0.077	0.089
cis-1,2-Dichloroethene	70	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	5.5	2.7
Tetrachloroethene	5	ug/L	< 1.0	8.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	41	1.4	1.6	< 2.0	< 1.0	31	< 1.0	< 1.0
Trichloroethene	5	ug/L	< 1.0	2.6	< 1.0	2.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	10	< 1.0	< 1.0	< 2.0	< 1.0	3.8	< 1.0	< 1.0
Vinyl chloride	2	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	1.4	3.1

Attachment A - October 2022 Groundwater Analytical Results Summary
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

		Well	W-96	W-97	W-98	W-99	W-100	W-102	W-103	W-104	W-104	W-105	W-106	W-107	W-107	W-108	W-109	W-110	W-111	W-112	W-113	W-114	W-115	W-116
		Date	10/19/2022	10/20/2022	10/18/2022	10/14/2022	10/14/2022	10/10/2022	10/17/2022	10/20/2022	10/20/2022	10/20/2022	10/14/2022	10/21/2022	10/21/2022	10/21/2022	10/20/2022	10/21/2022	10/20/2022	10/21/2022	10/13/2022	10/13/2022	10/12/2022	10/12/2022
		Type	N	N	N	N	N	N	N	N	FD	N	N	N	FD	N	N	N	N	N	N	N	N	N
Analyte	MCL	Units																						
Technetium-99	900	pCi/L	1.25 #	11.3	10.4	45.7	33.0	84.2	35.5	3.24 #	3.63 #	0 ##	2.69 #	0 ##	0.740 #	0 ##	0.825 #	0 ##	1.02 #	0.607 #	0 ##	0 ##	1.26 #	2.78 #
Uranium-234		ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Uranium-235		ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	0.0329 J	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Uranium-238		ug/L	< 0.200	< 0.200	< 0.200	0.194 J	0.188 J	1.76	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.0979 J	< 0.200	0.142 J	< 0.200	< 0.200	< 0.200
Total Uranium Isotopes	30	ug/L	< 0.200	< 0.200	< 0.200	0.194 J	0.188 J	1.80	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.0979 J	< 0.200	0.142 J	< 0.200	< 0.200	< 0.200
Fluoride	4	mg/L	< 0.10	0.17	< 0.10	3.1	2.5	3.0	< 0.10	< 0.10	< 0.10	0.32	0.13	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nitrate as N	10	mg/L	0.025	2.0	9.4	0.095	2.7	89	9.5	7.3	5.2	0.068	0.10	0.052	0.098	0.32	< 0.020	< 0.020	< 0.020	0.084	3.1	1.0	14	5.9
cis-1,2-Dichloroethene	70	ug/L	0.87 J	< 1.0	< 1.0	< 1.0	< 1.0	4.3	0.79 J	< 1.0	< 1.0	< 1.0	< 1.0	0.46 J	0.43 J	1.3	2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	5	ug/L	2.4	2.9	< 1.0	0.41 J	< 1.0	44	24.9	2.6	2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	ug/L	3.1	0.56 J	< 1.0	< 1.0	< 1.0	5.7	4.3	2.2	2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	2	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.2	3	0.8 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Attachment A - October 2022 Groundwater Analytical Results Summary
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

		Well	W-117	W-118	W-119	W-120	W-120	W-121	W-122	W-123	W-124	W-125	W-126
		Date	10/13/2022	10/13/2022	10/13/2022	10/13/2022	10/13/2022	10/13/2022	10/11/2022	10/4/2022	10/20/2022	10/20/2022	10/19/2022
		Type	N	N	N	N	FD	N	N	N	N	N	N
Analyte	MCL	Units											
Technetium-99	900	pCi/L	1.87 #	2.71 #	0 ##	0.844 #	0.706 #	2.01 #	0 ##	498	0.705 #	1.20 #	0.983 #
Uranium-234		ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Uranium-235		ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	0.0118 J	< 0.0700	< 0.0700	< 0.0700
Uranium-238		ug/L	< 0.200	< 0.200	< 0.200	0.495	0.502	< 0.200	< 0.200	1.76	< 0.200	< 0.200	< 0.200
Total Uranium Isotopes	30	ug/L	< 0.200	< 0.200	< 0.200	0.495	0.502	< 0.200	< 0.200	1.77	< 0.200	< 0.200	< 0.200
Fluoride	4	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	9.5	< 0.10	0.10	< 0.10
Nitrate as N	10	mg/L	2.7	3.4	1.7	3.3	3.3	2.0	< 0.020	120	< 0.020	0.10	< 0.020
cis-1,2-Dichloroethene	70	ug/L	< 1.0	< 1.0	< 1.0	0.72 J	0.79 J	< 1.0	< 1.0	2.0	< 1.0	< 1.0	0.68 J
Tetrachloroethene	5	ug/L	11	83	71	250	230	25	< 1.0	27	< 1.0	< 1.0	< 1.0
Trichloroethene	5	ug/L	0.63 J	2.4	2.5	11	12	0.44 J	< 1.0	8.8	< 1.0	< 1.0	< 1.0
Vinyl chloride	2	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
MCL - Maximum Contaminant Level
Concentrations in orange shaded cells exceed their MCL
Concentrations in yellow shaded cells were analyzed out of hold time
Bold concentrations indicate detections
J - Result below reporting limit
- value is below minimum detectable concentration
- value shown as zero reported by analytical laboratory as a negative number
pCi/L - picocuries per liter
ug/L - micrograms per liter
mg/L - milligrams per liter
N - Normal sample
FD - Field duplicate sample