



Westinghouse Electric Company
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Your ref:
Our ref: LTR-RAC-22-47

September 14, 2022

Subject: **August 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 **August 4, 2022**. The following progress report is for work occurring from **August 1- 31, 2022**:

- (a) Actions during the previous month:
 - Completed the following to support completion of the **RI Report, Item 6** of the CA:
 - Submitted the draft Remedial Investigation Report on 8/22/22.
 - Submitted the draft Baseline Risk Assessment on 8/22/22.
 - Submitted the CFFF Conceptual Site Model (Rev 4) as part of the RI Report on 8/22/22.
 - Developed a scope of work for the groundwater flow model needed in the Feasibility Study.

(b) Results of sampling and tests:

- **Semiannual Groundwater Sampling (118 wells)**

Tabulated results of the semiannual groundwater sampling campaign conducted in April 2022 were initially submitted with the June 2022 monthly progress report and are included as **Attachment A**. Generated plume maps and potentiometric maps for the same semiannual groundwater sampling campaign are included in this progress report as **Attachment B**.

(c) Brief description of all actions which are scheduled for the next month:

In accordance with the **Feasibility Study (FS) Work Plan, Item 7** of the CA, Westinghouse will begin preliminary work as follows:

- Schedule a visit to the Columbia site for the AECOM groundwater flow modeler.

(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.
- 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: Tabulated Groundwater Analytical Results, April 2022 (118 wells)

Attachment B: Potentiometric and Plume Maps, April 2022 Semiannual GW Sampling Campaign

Attachment A

Tabulated Groundwater Analytical Results April 2022 (118 wells)

Attachment A

Tabulated Groundwater Analytical Results, April 2022 (118 wells)
Westinghouse Columbia Fuel Fabrication Facility, Hopkins SC

Group	Analyte	MCL	Note	Units	Well	W-15	W-16	W-17	W-18R	W-19B	W-20	W-22	W-23R	W-24	W-25	W-26	W-27
					Date Type	4/14/2022 10:23:00 AM N	4/19/2022 11:15:00 AM N	4/7/2022 9:52:00 AM N	4/7/2022 10:55:00 AM N	4/19/2022 10:21:00 AM N	4/25/2022 11:21:00 AM N	4/4/2022 3:22:00 PM N	4/13/2022 1:46:00 PM N	4/20/2022 12:28:00 PM N	4/21/2022 1:42:00 PM N	4/19/2022 12:30:00 PM N	4/21/2022 11:36:00 AM N
Radiological	Alpha particles	15	*	pCi/L		2.50 #	2.69 #	2.16 #	6.06 #	0.928 #	0 ##	1.01 #	1.81	0	0.597	2.11 #	0
Radiological	Beta particles	50	*	pCi/L		104	12.2	219	66.1	3.83 #	0.133 #	19.3	10.6	2.03 #	2.96 #	7.37	4.35
Radiological	Tritium			pCi/L		0 ##	0 ##		0 ##			0 ##		150 #		0 ##	
Radiological	Technetium-99	900		pCi/L		206	7.82	505	85.8	2.05 #	0 ##	29.3	1.23 #	0 ##	0 ##	5.09	3.05
Radiological	Uranium-233/234			pCi/L		0.302	0.0821 #	0.480	0.770	0 ##	0 ##	0.644	0.838	0.217 #	0 ##	0.0240 #	0 ##
Radiological	Uranium-235/236			pCi/L		0.0896 #	0.0165 #	0.0264 #	0.116 #	0.00869 #	0 ##	0 ##	0.0727 #	0.0253 #	0.0707 #	0 ##	0.0247 #
Radiological	Uranium-238			pCi/L		0.127	0.0770	0.227 #	0.872	0.0392 #	0.00111 #	0.316	0.555	0.136 #	0 ##	0.0128 #	0 ##
Radiological	Percent Uranium-235			%		0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #
Radiological	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
Radiological	Uranium-235			ug/L		< 0.0700	< 0.0700	< 0.0700	0.0214 J	< 0.0700	< 0.0700	0.0116 J	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Radiological	Uranium-238			ug/L		< 0.200	0.0691 J	0.314	2.31	< 0.200	< 0.200	0.650	0.164 J	< 0.200	< 0.200	0.0691 J	< 0.200
Radiological	Total Uranium Isotopes	30		ug/L		0	0.0691 J	0.314	2.33	< 0.200	< 0.200	0.662	0	< 0.200	< 0.200	0.0691 J	< 0.200
Chemical	Fluoride	4		mg/L		2.3	9.8	3.0	5.4	< 0.10	< 0.10	6.0	< 0.10	< 0.10	< 0.10	2.4	3.2
Chemical	Nitrate as N	10		mg/L		32	2.6	16	340	3.6	< 0.020	71	0.57	0.099	0.063	2.7	0.12
VOCs	Acetone			ug/L		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
VOCs	Benzene	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	< 1.0
VOCs	Bromodichloromethane			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
VOCs	Bromoform			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
VOCs	Bromomethane			ug/L		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	2-Butanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Carbon disulfide			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
VOCs	Carbon tetrachloride	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	< 1.0
VOCs	Chlorobenzene	100		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
VOCs	Chloroethane			ug/L		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	Chloroform			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
VOCs	Chloromethane			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
VOCs	Cyclohexane			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
VOCs	1,2-Dibromo-3-chloropropane	0.2		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
VOCs	Dibromochloromethane			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
VOCs	1,2-Dibromoethane	0.05		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
VOCs	1,2-Dichlorobenzene	600		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
VOCs	1,3-Dichlorobenzene			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
VOCs	1,4-Dichlorobenzene	75		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
VOCs	1,1-Dichloroethane			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
VOCs	Dichlorodifluoromethane			ug/L		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	1,2-Dichloroethane	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	< 1.0
VOCs	1,1-Dichloroethane	7		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
VOCs	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
VOCs	trans-1,2-Dichloroethene	100		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
VOCs	1,2-Dichloropropane	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	< 1.0
VOCs	cis-1,3-Dichloropropene			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
VOCs	trans-1,3-Dichloropropene			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
VOCs	Ethylbenzene	700		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
VOCs	2-Hexanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	(1-Methylethyl)-Benzene			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
VOCs	Methyl acetate			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
VOCs	Methyl tert-butyl ether			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
VOCs	4-Methyl-2-pentanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Methylcyclohexane			ug/L		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
VOCs	Methylene chloride	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	< 1.0
VOCs	Styrene	100		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
VOCs	1,1,2,2-Tetrachloroethane			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
VOCs	Tetrachloroethene	5		ug/L		8.5	2.6	4.0	1.7	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Toluene	1000		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
VOCs	1,1,2-Trichloro-1,2,2-trifluoroethane			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
VOCs	1,2,4-Trichlorobenzene	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
VOCs	1,1,1-Trichloroethane	200		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
VOCs	1,1,2-Trichloroethane	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	< 1.0
VOCs	Trichloroethene	5		ug/L		1.7	< 1.0	< 1.0	< 1.0	1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Trichlorofluoromethane			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
VOCs	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
VOCs	Xylenes, Total	10000		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

Attachment A

Tabulated Groundwater Analytical Results, April 2022 (118 wells)

Westinghouse Columbia Fuel Fabrication Facility, Hopkins SC

					Well	W-41R	W-42	W-43	W-44	W-45	W-46	W-47	W-48	W-49	W-50	W-51	W-52
					Date Type	4/15/2022 9:38:00 AM N	4/18/2022 1:12:00 PM N	4/14/2022 11:39:00 AM N	4/15/2022 1:04:00 PM N	4/12/2022 10:37:00 AM N	4/15/2022 12:13:00 PM N	4/19/2022 9:45:00 AM N	4/19/2022 1:38:00 PM N	4/18/2022 11:19:00 AM N	4/11/2022 11:47:00 AM N	4/11/2022 2:25:00 PM N	4/11/2022 2:08:00 PM N
Group	Analyte	MCL	Note	Units													
Radiological	Alpha particles	15	*	pCi/L		0.515 #	0.363 #	0 ##	1.03 #	2.34	3.55	1.06 #	0.0436 #	0.565 #	0.820 #	0 ##	0.835 #
Radiological	Beta particles	50	*	pCi/L		7.47	5.39	4.64	0.959 #	2.13 #	31.0	45.4	5.98	3.38 #	2.21 #	2.46 #	5.46
Radiological	Tritium			pCi/L		0 ##	0 ##	0 ##	0 ##			0 ##	124 #				
Radiological	Technetium-99	900		pCi/L		10.9	4.04	0.422 #	0 ##	0.400 #	53.4	90.4	15.2	2.27 #	0.661 #	0 ##	0.0567 #
Radiological	Uranium-233/234			pCi/L		0.0793 #	0.0712 #	0 ##	0 ##	1.01	0.00949 #	0 ##	0.0808 #	0 ##	0.166 #	0.0408 #	0.522
Radiological	Uranium-235/236			pCi/L		0.0369 #	0.0528 #	0.0191 #	0.0909 #	0.157 #	0.0218 #	0.0798 #	0.0348 #	0.00184 #	0.00277 #	0 ##	0.0139 #
Radiological	Uranium-238			pCi/L		0.0894	0.0131 #	0 ##	0 ##	0.280	0 ##	0.0736 #	0 ##	0.0668 #	0.242 #	0 ##	0.0610 #
Radiological	Percent Uranium-235			%		0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #
Radiological	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
Radiological	Uranium-235			ug/L		< 0.0700	< 0.0700	< 0.0700	< 0.0700	0.0291 J	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Radiological	Uranium-238			ug/L		< 0.200	< 0.200	< 0.200	< 0.200	1.20	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.184 J	0.299
Radiological	Total Uranium isotopes	30		ug/L		< 0.200	< 0.200	< 0.200	< 0.200	1.23	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.184 J	0.299
Chemical	Fluoride	4		mg/L		< 0.10	2.5	< 0.10	< 0.10	0.51	< 0.10	5.1	0.40	< 0.10	< 0.10	0.21	0.79
Chemical	Nitrate as N	10		mg/L		46	1.9	6.9	2.0	0.27	7.9	49	6.0	< 0.020	0.081	0.079	0.49
VOCs	Acetone			ug/L		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
VOCs	Benzene	5		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 1.0
VOCs	Bromodichloromethane			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
VOCs	Bromoform			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
VOCs	Bromomethane			ug/L		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	2-Butanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Carbon disulfide			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
VOCs	Carbon tetrachloride	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	< 1.0
VOCs	Chlorobenzene	100		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
VOCs	Chloroethane			ug/L		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	Chloroform			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
VOCs	Chloromethane			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
VOCs	Cyclohexane			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
VOCs	1,2-Dibromo-3-chloropropane	0.2		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
VOCs	Dibromochloromethane			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
VOCs	1,2-Dibromoethane	0.05		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
VOCs	1,2-Dichlorobenzene	600		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
VOCs	1,3-Dichlorobenzene			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
VOCs	1,4-Dichlorobenzene	75		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
VOCs	1,1-Dichloroethane			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
VOCs	Dichlorodifluoromethane			ug/L		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	1,2-Dichloroethane	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	< 1.0
VOCs	1,1-Dichloroethene	7		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
VOCs	cis-1,2-Dichloroethene	70		ug/L		5.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	trans-1,2-Dichloroethene	100		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
VOCs	1,2-Dichloropropane	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	< 1.0
VOCs	cis-1,3-Dichloropropene			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
VOCs	trans-1,3-Dichloropropene			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
VOCs	Ethylbenzene	700		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.1	< 1.0
VOCs	2-Hexanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	(1-Methylethyl)-Benzene			ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.3	< 1.0
VOCs	Methyl acetate			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
VOCs	Methyl tert-butyl ether			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
VOCs	4-Methyl-2-pentanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Methylcyclohexane			ug/L		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
VOCs	Methylene chloride	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	< 1.0
VOCs	Styrene	100		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
VOCs	1,1,2,2-Tetrachloroethane			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
VOCs	Tetrachloroethene	5		ug/L		210	< 1.0	< 1.0	< 1.0	< 1.0	2.4	2.1	190	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Toluene	1000		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
VOCs	1,1,2-Trichloro-1,2,2-trifluoroethane			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
VOCs	1,2,4-Trichlorobenzene	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
VOCs	1,1,1-Trichloroethane	200		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
VOCs	1,1,2-Trichloroethane	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	< 1.0
VOCs	Trichloroethene	5		ug/L		15	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.4	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Trichlorofluoromethane			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
VOCs	Vinyl chloride	2		ug/L		&											

Attachment A

Tabulated Groundwater Analytical Results, April 2022 (118 wells)
Westinghouse Columbia Fuel Fabrication Facility, Hopkins SC

				Well	W-53	W-54	W-55	W-55	W-56	W-57	W-58	W-59	W-60	W-61	W-62	W-62
				Date Type	4/8/2022 12:44:00 PM N	4/8/2022 11:32:00 AM N	4/8/2022 9:10:00 AM N	4/8/2022 9:10:00 AM FD	4/7/2022 2:55:00 PM N	4/7/2022 12:35:00 PM N	4/7/2022 11:22:00 AM N	4/6/2022 2:08:00 PM N	4/13/2022 11:17:00 AM N	4/13/2022 12:16:00 PM N	4/18/2022 11:29:00 AM N	4/18/2022 11:39:00 AM FD
Group	Analyte	MCL	Note	Units												
Radiological	Alpha particles	15	*	pCi/L	0.303 #	0.384 #	221	204	390	2.17 #	1.76 #	7.96	3.03 #	0.578 #	0.321 #	1.13 #
Radiological	Beta particles	50	*	pCi/L	4.93	3.98	56.6	45.7	86.5	0.416 #	0.510 #	7.40	1.16 #	5.83	6.08	0.144 #
Radiological	Tritium			pCi/L												
Radiological	Technetium-99	900		pCi/L	0 ##	0 ##	0.379 #	0.700 #	0 ##	0 ##	0 ##	0.310 #	0 ##	0.387 #	1.56 #	1.24 #
Radiological	Uranium-233/234			pCi/L	0 ##	0.0500 #	177	215	302	0.0102 #	0.910	6.52	0 ##	0.288	0.121 #	0.0564 #
Radiological	Uranium-235/236			pCi/L	0 ##	0 ##	9.70	9.30	15.0	0 ##	0.00966 #	0.406	0.0343 #	0.0828 #	0.0140 #	0 ##
Radiological	Uranium-238			pCi/L	0.126 #	0.0478 #	34.1	40.6	62.9	0.0646 #	0.182	1.47	0.0699 #	0.220	0.142 #	0.174
Radiological	Percent Uranium-235			%	0 #	0 #	4.23	3.44	3.57	0 #	0 #	4.10	0 #	0 #	0 #	0 #
Radiological	Uranium-234			ug/L	< 0.0500	< 0.0500	0.0330 J	0.0340 J	0.0520	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Radiological	Uranium-235			ug/L	< 0.0700	< 0.0700	3.99	3.77	5.80	< 0.0700	0.0232 J	0.125	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Radiological	Uranium-238			ug/L	< 0.200	< 0.200	116	111	173	0.0809 J	0.775	3.99	< 0.200	< 0.200	< 0.200	0.0981 J
Radiological	Total Uranium isotopes	30		ug/L	< 0.200	< 0.200	120	115	178	0.0809 J	0.798	4.12	0	0	< 0.200	0.0981 J
Chemical	Fluoride	4		mg/L	< 0.10	0.31	< 0.10	0.61	0.33	< 0.10	0.10	1.8	< 0.10	< 0.10	0.28	< 0.10
Chemical	Nitrate as N	10		mg/L	0.13	2.4	3.5	3.2	3.5	1.8	5.5	14	< 0.020	2.4	3.9	5.2
VOCs	Acetone			ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
VOCs	Benzene	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	< 1.0
VOCs	Bromodichloromethane			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
VOCs	Bromoform			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
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	2-Butanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Carbon disulfide			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
VOCs	Carbon tetrachloride	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	< 1.0
VOCs	Chlorobenzene	100		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
VOCs	Chloroethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	Chloroform			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
VOCs	Chloromethane			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
VOCs	Cyclohexane			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
VOCs	1,2-Dibromo-3-chloropropane	0.2		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
VOCs	Dibromochloromethane			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
VOCs	1,2-Dibromoethane	0.05		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
VOCs	1,2-Dichlorobenzene	600		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
VOCs	1,3-Dichlorobenzene			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
VOCs	1,4-Dichlorobenzene	75		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
VOCs	1,1-Dichloroethane			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
VOCs	Dichlorodifluoromethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	1,2-Dichloroethane	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	< 1.0
VOCs	1,1-Dichloroethene	7		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
VOCs	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
VOCs	trans-1,2-Dichloroethene	100		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
VOCs	1,2-Dichloropropane	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	< 1.0
VOCs	cis-1,3-Dichloropropene			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
VOCs	trans-1,3-Dichloropropene			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
VOCs	Ethylbenzene	700		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
VOCs	2-Hexanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	(1-Methylethyl)-Benzene			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
VOCs	Methyl acetate			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
VOCs	Methyl tert-butyl ether			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
VOCs	4-Methyl-2-pentanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Methylcyclohexane			ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
VOCs	Methylene chloride	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	< 1.0
VOCs	Styrene	100		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
VOCs	1,1,2,2-Tetrachloroethane			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
VOCs	Tetrachloroethene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	40	39
VOCs	Toluene	1000		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
VOCs	1,1,2-Trichloro-1,2,2-trifluoroethane			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
VOCs	1,2,4-Trichlorobenzene	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
VOCs	1,1,1-Trichloroethane	200		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
VOCs	1,1,2-Trichloroethane	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	< 1.0
VOCs	Trichloroethene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	1.2
VOCs	Trichlorofluoromethane			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
VOCs	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
VOCs	Xylenes, Total	10000		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

Attachment A

Tabulated Groundwater Analytical Results, April 2022 (118 wells)

Westinghouse Columbia Fuel Fabrication Facility, Hopkins SC

		Well		W-75	W-76	W-77	W-78	W-79	W-80	W-81	W-82	W-83	W-84	W-85	W-86	
		Date Type		4/8/2022 9:47:00 AM N	4/5/2022 11:48:00 AM N	4/5/2022 9:53:00 AM N	4/5/2022 11:07:00 AM N	4/5/2022 9:22:00 AM N	4/5/2022 10:31:00 AM N	4/6/2022 12:47:00 PM N	4/6/2022 11:11:00 AM N	4/6/2022 9:42:00 AM N	4/6/2022 8:34:00 AM N	4/25/2022 10:31:00 AM N	4/25/2022 8:58:00 AM N	
Group	Analyte	MCL	Note	Units												
Radiological	Alpha particles	15	*	pCi/L	0.0566 #	6.42	358	0 #	0.529 #	2.69 #	4.37	0 #	0.941 #	0 #	1.26 #	0.180 #
Radiological	Beta particles	50	*	pCi/L	1.74 #	5.29	62.5	0 #	4.23	9.20	0.877 #	2.25 #	3.70 #	2.51 #	3.11 #	1.60 #
Radiological	Tritium			pCi/L												
Radiological	Technetium-99	900		pCi/L	0.379 #	1.79 #	1.70 #	0.904 #	2.77 #	1.09 #	0 #	0 #	0 #	0 #	0.582 #	0.347 #
Radiological	Uranium-233/234			pCi/L	0 #	4.81	309	0.0329 #	0.102 #	0 #	0.650	0.173 #	0.130 #	0.0595 #	0 #	0.0372 #
Radiological	Uranium-235/236			pCi/L	0 #	0.273	15.8	0.0887 #	0.0468 #	0.0266 #	0 #	0.00942 #	0.0175 #	0.0225 #	0.133 #	0 #
Radiological	Uranium-238			pCi/L	0.0495 #	0.983	51.6	0 #	0 #	0 #	0.380	0.0846 #	0.0957 #	0.139 #	0.0794 #	0.142 #
Radiological	Percent Uranium-235			%	0 #	4.13	4.54	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #
Radiological	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
Radiological	Uranium-235			ug/L	< 0.0700	0.0992	5.85	< 0.0700	< 0.0700	< 0.0700	0.0121 J	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Radiological	Uranium-238			ug/L	< 0.200	3.04	138	0.180 J	< 0.200	0.114 J	0.960	0.254	< 0.200	< 0.200	0.106 J	< 0.200
Radiological	Total Uranium isotopes	30		ug/L	< 0.200	3.14	144	0.180 J	< 0.200	0.114 J	0.972	0.254	< 0.200	< 0.200	0.106 J	< 0.200
Chemical	Fluoride	4		mg/L	0.14	3.7	15	13	1.4	0.38	< 0.10	< 0.10	< 0.10	< 0.10	0.23	0.52
Chemical	Nitrate as N	10		mg/L	0.47	13	10	4.4	19	8.0	3.7	0.53	0.50	< 0.020	0.14	0.27
VOCs	Acetone			ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
VOCs	Benzene	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	< 1.0
VOCs	Bromodichloromethane			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
VOCs	Bromoform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	2-Butanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Carbon disulfide			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
VOCs	Carbon tetrachloride	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	< 1.0
VOCs	Chlorobenzene	100		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
VOCs	Chloroethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	Chloroform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6	3.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chloromethane			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
VOCs	Cyclohexane			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
VOCs	1,2-Dibromo-3-chloropropane	0.2		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
VOCs	Dibromochloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromoethane	0.05		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
VOCs	1,2-Dichlorobenzene	600		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
VOCs	1,3-Dichlorobenzene			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
VOCs	1,4-Dichlorobenzene	75		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
VOCs	1,1-Dichloroethane			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
VOCs	Dichlorodifluoromethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	1,2-Dichloroethane	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	< 1.0
VOCs	1,1-Dichloroethene	7		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
VOCs	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
VOCs	trans-1,2-Dichloroethene	100		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
VOCs	1,2-Dichloropropane	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	< 1.0
VOCs	cis-1,3-Dichloropropene			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
VOCs	trans-1,3-Dichloropropene			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
VOCs	Ethylbenzene	700		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
VOCs	2-Hexanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	(1-Methylethyl)-Benzene			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
VOCs	Methyl acetate			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
VOCs	Methyl tert-butyl ether			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
VOCs	4-Methyl-2-pentanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Methylcyclohexane			ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
VOCs	Methylene chloride	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	< 1.0
VOCs	Styrene	100		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
VOCs	1,1,2,2-Tetrachloroethane			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
VOCs	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	< 1.0
VOCs	Toluene	1000		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
VOCs	1,1,2-Trichlor-1,2,2-trifluoroethane			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
VOCs	1,2,4-Trichlorobenzene	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
VOCs	1,1,1-Trichloroethane	200		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
VOCs	1,1,2-Trichloroethane	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	< 1.0
VOCs	Trichloroethene	5		ug/L	< 1.0	15	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Trichlorofluoromethane			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
VOCs	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
VOCs	Xylenes, Total	10000		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

Attachment A

Tabulated Groundwater Analytical Results, April 2022 (118 wells)
Westinghouse Columbia Fuel Fabrication Facility, Hopkins SC

				Well	W-87	W-88	W-89	W-90	W-91	W-92	W-93	W-94	W-95	W-95	W-96	W-97
				Date Type	4/11/2022 9:29:00 AM N	4/15/2022 10:49:00 AM N	4/15/2022 11:57:00 AM N	4/18/2022 1:10:00 PM N	4/18/2022 2:17:00 PM N	4/21/2022 10:00:00 AM N	4/5/2022 8:38:00 AM N	4/20/2022 12:46:00 PM N	4/20/2022 9:50:00 AM N	4/20/2022 9:50:00 AM FD	4/21/2022 9:10:00 AM N	4/20/2022 1:50:00 PM N
Group	Analyte	MCL	Note	Units												
Radiological	Alpha particles	15	*	pCi/L	0.408 #	0 ##	2.37 #	1.72 #	1.70 #	0	0 ##	1.29 #	0.255	2.06	0.774 #	4.71
Radiological	Beta particles	50	*	pCi/L	4.06 #	1.92 #	0 ##	0 ##	2.20 #	1.18 #	2.99 #	2.49 #	6.47	0 ##	1.69 #	8.35
Radiological	Tritium			pCi/L												
Radiological	Technetium-99	900		pCi/L	0.437 #	2.08 #	2.06 #	1.92 #	1.47 #	2.58	1.33 #	0 ##	0.193 #	0 ##	0 ##	20.7
Radiological	Uranium-233/234			pCi/L	0.242 #	0 ##	0.0284 #	0.0292 #	0 ##	0 ##	0 ##	0 ##	0.0521 #	0.0578 #	0 ##	0 ##
Radiological	Uranium-235/236			pCi/L	0 ##	0 #	0.0583 #	0.103 #	0.139 #	0.0395 #	0 ##	0.176 #	0.126 #	0.0333 #	0.0271 #	0.0357 #
Radiological	Uranium-238			pCi/L	0.183 #	0.0969 #	0 ##	0.0732 #	0.136	0.0741 #	0.0125 #	0.0167 #	0.146 #	0.111 #	0.0539 #	0 ##
Radiological	Percent Uranium-235			%	0 #	0 #		0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #
Radiological	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
Radiological	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
Radiological	Uranium-238			ug/L	0.611	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.0849 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200
Radiological	Total Uranium isotopes	30		ug/L	0.611	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.0849 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200
Chemical	Fluoride	4		mg/L	0.14	< 0.10	< 0.10	< 0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.31
Chemical	Nitrate as N	10		mg/L	0.085	3.5	2.3	2.7	0.43	0.12	5.4	0.050	0.059	0.059	0.17	3.8
VOCs	Acetone			ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
VOCs	Benzene	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	< 1.0
VOCs	Bromodichloromethane			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
VOCs	Bromoform			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
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	2-Butanone			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
VOCs	Carbon disulfide			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
VOCs	Carbon tetrachloride	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	< 1.0
VOCs	Chlorobenzene	100		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
VOCs	Chloroethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	Chloroform			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
VOCs	Chloromethane			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
VOCs	Cyclohexane			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
VOCs	1,2-Dibromo-3-chloropropane	0.2		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
VOCs	Dibromochloromethane			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
VOCs	1,2-Dibromoethane	0.05		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
VOCs	1,2-Dichlorobenzene	600		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
VOCs	1,3-Dichlorobenzene			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
VOCs	1,4-Dichlorobenzene	75		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
VOCs	1,1-Dichloroethane			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
VOCs	Dichlorodifluoromethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	1,2-Dichloroethane	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	< 1.0
VOCs	1,1-Dichloroethane	7		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
VOCs	cis-1,2-Dichloroethene	70		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.8	3.2	3.2	< 1.0	< 1.0
VOCs	trans-1,2-Dichloroethene	100		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
VOCs	1,2-Dichloropropane	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	< 1.0
VOCs	cis-1,3-Dichloropropene			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
VOCs	trans-1,3-Dichloropropene			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
VOCs	Ethylbenzene	700		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
VOCs	2-Hexanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	(1-Methylethyl)-Benzene			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
VOCs	Methyl acetate			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
VOCs	Methyl tert-butyl ether			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
VOCs	4-Methyl-2-pentanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Methylcyclohexane			ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
VOCs	Methylene chloride	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	< 1.0
VOCs	Styrene	100		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
VOCs	1,1,2,2-Tetrachloroethane			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
VOCs	Tetrachloroethene	5		ug/L	26	2.0	1.7	< 1.0	< 1.0	< 1.0	33	< 1.0	< 1.0	< 1.0	< 1.0	5.2
VOCs	Toluene	1000		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
VOCs	1,1,2-Trichloro-1,2,2-trifluoroethane			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
VOCs	1,2,4-Trichlorobenzene	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
VOCs	1,1,1-Trichloroethane	200		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
VOCs	1,1,2-Trichloroethane	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	< 1.0
VOCs	Trichloroethene	5		ug/L	7.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.3	< 1.0	< 1.0	< 1.0	1.5	1.2
VOCs	Trichlorofluoromethane			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
VOCs	Vinyl chloride	2		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.6	3.8	< 1.0	< 1.0
VOCs	Xylenes, Total	10000		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

Attachment A

Tabulated Groundwater Analytical Results, April 2022 (118 wells)
Westinghouse Columbia Fuel Fabrication Facility, Hopkins SC

Well	W-111	W-112	W-113	W-114	W-115	W-116	W-117	W-118	W-119	W-120	W-121	W-122				
Date	4/20/2022 10:50:00 AM	4/20/2022 8:42:00 AM	4/12/2022 12:03:00 PM	4/12/2022 12:53:00 PM	4/12/2022 9:26:00 AM	4/12/2022 8:35:00 AM	4/12/2022 10:26:00 AM	4/12/2022 11:58:00 AM	4/12/2022 12:56:00 PM	4/13/2022 9:26:00 AM	4/13/2022 8:27:00 AM	4/11/2022 10:51:00 AM				
Type	N	N	N	N	N	N	N	N	N	N	N	N				
Group	Analyte	MCL	Note	Units												
Radiological	Alpha particles	15	*	pCi/L	1.71	0	0 ##	0 ##	0.272 #	0 ##	0.283 #	0.171 #	0 ##	1.56 #	0.229 #	1.74 #
Radiological	Beta particles	50	*	pCi/L	2.37 #	1.75 #	0.667 #	4.71 #	3.74 #	1.60 #	1.88 #	6.43	4.55	2.87 #	3.62 #	1.46 #
Radiological	Tritium			pCi/L												
Radiological	Technetium-99	900		pCi/L	0 ##	0 ##	0.178 #	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	1.50 #	0.699 #	0.134 #
Radiological	Uranium-233/234			pCi/L	0.151 #	0 ##	0.132 #	0.146 #	0.00434 #	0 ##	0 ##	0 ##	0 ##	0.277	0.0156 #	0.0290 #
Radiological	Uranium-235/236			pCi/L	0 ##	0.0827 #	0.0193 #	0.0364 #	0.0976 #	0.0706 #	0.0445 #	0.0382 #	0.0486 #	0.0610 #	0.0259 #	0 #
Radiological	Uranium-238			pCi/L	0.245 #	0.0751 #	0.0601 #	0.0124 #	0 ##	0.0217 #	0.132 #	0.0114 #	0.0394 #	0.112 #	0.0353 #	0.0729 #
Radiological	Percent Uranium-235			%	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #
Radiological	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
Radiological	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
Radiological	Uranium-238			ug/L	0.145 J	0.0673 J	0.192 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.817	< 0.200	< 0.200
Radiological	Total Uranium isotopes	30		ug/L	0.145 J	0.0673 J	0.192 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0	0	< 0.200
Chemical	Fluoride	4		mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chemical	Nitrate as N	10		mg/L	< 0.020	0.050	2.9	1.5	3.6	6.5	2.8	4.0	1.7	2.7	1.4	< 0.020
VOCs	Acetone			ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 100	< 20	< 20
VOCs	Benzene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	Bromoform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0
VOCs	2-Butanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
VOCs	Carbon disulfide			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	Carbon tetrachloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	Chlorobenzene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	Chloroethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0
VOCs	Chloroform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	Chloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	Cyclohexane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	1,2-Dibromo-3-chloropropane	0.2		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	Dibromochloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	1,2-Dibromoethane	0.05		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	1,2-Dichlorobenzene	600		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	1,3-Dichlorobenzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	1,4-Dichlorobenzene	75		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	Dichlorodifluoromethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0
VOCs	1,2-Dichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethene	7		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	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	< 5.0	< 1.0	< 1.0
VOCs	trans-1,2-Dichloroethene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	1,2-Dichloropropane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	cis-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	trans-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	Ethylbenzene	700		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	2-Hexanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
VOCs	(1-Methylethyl)-Benzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	Methyl acetate			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	Methyl tert-butyl ether			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	4-Methyl-2-pentanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
VOCs	Methylcyclohexane			ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0
VOCs	Methylene chloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	Styrene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	1,1,2,2-Tetrachloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	Tetrachloroethene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	10	68	81	300	25	< 1.0
VOCs	Toluene	1000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	1,1,2-Trichlor-1,2,2-trifluoroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	1,2,4-Trichlorobenzene	70		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	1,1,1-Trichloroethane	200		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	1,1,2-Trichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	Trichloroethene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	2.0	2.9	13	< 1.0	< 1.0
VOCs	Trichlorofluoromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	Vinyl chloride	2		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	Xylenes, Total	10000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0

Attachment A

Tabulated Groundwater Analytical Results, April 2022 (118 wells)

Westinghouse Columbia Fuel Fabrication Facility, Hopkins SC

					Well	W-123	W-124	W-125	W-126
					Date	4/4/2022 10:52:00 AM	4/21/2022 11:28:00 AM	4/21/2022 8:10:00 AM	4/21/2022 10:12:00 AM
					Type	N	N	N	N
Group	Analyte	MCL	Note	Units					
Radiological	Alpha particles	15	*	pCi/L		10.0	1.82 #	4.08	2.14 #
Radiological	Beta particles	50	*	pCi/L		291	2.36 #	7.71	6.34
Radiological	Tritium			pCi/L					
Radiological	Technetium-99	900		pCi/L		442	0 ##	1.77 #	0.912 #
Radiological	Uranium-233/234			pCi/L		0.437	0 ##	0.00912 #	0.0205 #
Radiological	Uranium-235/236			pCi/L		0.0321 #	0 #	0 ##	0.0766 #
Radiological	Uranium-238			pCi/L		0.481	0.127 #	0.101 #	0.103 #
Radiological	Percent Uranium-235			%		0 #	0 #	0 #	0 #
Radiological	Uranium-234			ug/L		< 0.0500	< 0.0500	< 0.0500	< 0.0500
Radiological	Uranium-235			ug/L		< 0.0700	< 0.0700	< 0.0700	< 0.0700
Radiological	Uranium-238			ug/L		1.37	< 0.200	0.0709 J	< 0.200
Radiological	Total Uranium isotopes	30		ug/L		1.37	< 0.200	0.0709 J	< 0.200
Chemical	Fluoride	4		mg/L		7.4	< 0.10	0.13	0.15
Chemical	Nitrate as N	10		mg/L		83	0.075	0.077	0.096
VOCs	Acetone			ug/L		< 20	< 20	< 20	< 20
VOCs	Benzene	5		ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromodichloromethane			ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromoform			ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromomethane			ug/L		< 2.0	< 2.0	< 2.0	< 2.0
VOCs	2-Butanone			ug/L		< 10	< 10	< 10	< 10
VOCs	Carbon disulfide			ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Carbon tetrachloride	5		ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chlorobenzene	100		ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chloroethane			ug/L		< 2.0	< 2.0	< 2.0	< 2.0
VOCs	Chloroform			ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chloromethane			ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Cyclohexane			ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromo-3-chloropropane	0.2		ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Dibromochloromethane			ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromoethane	0.05		ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichlorobenzene	600		ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,3-Dichlorobenzene			ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,4-Dichlorobenzene	75		ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethane			ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Dichlorodifluoromethane			ug/L		< 2.0	< 2.0	< 2.0	< 2.0
VOCs	1,2-Dichloroethane	5		ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethene	7		ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	cis-1,2-Dichloroethene	70		ug/L		1.9	< 1.0	< 1.0	< 1.0
VOCs	trans-1,2-Dichloroethene	100		ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichloropropane	5		ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	cis-1,3-Dichloropropene			ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	trans-1,3-Dichloropropene			ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Ethylbenzene	700		ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	2-Hexanone			ug/L		< 10	< 10	< 10	< 10
VOCs	(1-Methylethyl)-Benzene			ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Methyl acetate			ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Methyl tert-butyl ether			ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	4-Methyl-2-pentanone			ug/L		< 10	< 10	< 10	< 10
VOCs	Methylcyclohexane			ug/L		< 5.0	< 5.0	< 5.0	< 5.0
VOCs	Methylene chloride	5		ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Styrene	100		ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2,2-Tetrachloroethane			ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Tetrachloroethene	5		ug/L		20	< 1.0	< 1.0	< 1.0
VOCs	Toluene	1000		ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2-Trichlor-1,2,2-trifluoroethane			ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2,4-Trichlorobenzene	70		ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,1-Trichloroethane	200		ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2-Trichloroethane	5		ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Trichloroethene	5		ug/L		9.6	< 1.0	< 1.0	< 1.0
VOCs	Trichlorofluoromethane			ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Vinyl chloride	2		ug/L		< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Xylenes, Total	10000		ug/L		< 1.0	< 1.0	< 1.0	< 1.0

Attachment A

Tabulated Groundwater Analytical Results, April 2022 (118 wells)

Westinghouse Columbia Fuel Fabrication Facility, Hopkins SC

					Well	W-RW2	W-RW2	W-26	W-41R	W-48
					Date	4/14/2022 12:45:00 PM	4/14/2022 12:45:00 PM	4/19/2022 12:30:00 PM	4/15/2022 9:38:00 AM	4/19/2022 1:38:00 PM
					Type	N	FD	N	N	N
Group	Analyte	MCL	note	Units						
SVOCs	1,1'-Biphenyl			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	2,4,5-Trichlorophenol			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	2,4,6-Trichlorophenol			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	2,4-Dichlorophenol			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	2,4-Dimethylphenol			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	2,4-Dinitrophenol			ug/L		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2,4-Dinitrotoluene			ug/L		< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
SVOCs	2,6-Dinitrotoluene			ug/L		< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
SVOCs	2-Chloronaphthalene			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	2-Chlorophenol			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	2-Methylnaphthalene			ug/L		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	2-Methylphenol			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	2-Nitroaniline			ug/L		< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
SVOCs	2-Nitrophenol			ug/L		< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
SVOCs	3,3'-Dichlorobenzidine			ug/L		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	3-Nitroaniline			ug/L		< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
SVOCs	4,6-Dinitro-2-methylphenol			ug/L		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	4-Bromophenyl phenyl ether			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	4-Chloro-3-methylphenol			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	4-Chloroaniline			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	4-Chlorophenyl phenyl ether			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	4-Methylphenol			ug/L		< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
SVOCs	4-Nitroaniline			ug/L		< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
SVOCs	4-Nitrophenol			ug/L		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Acenaphthene			ug/L		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Acenaphthylene			ug/L		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Acetophenone			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Anthracene			ug/L		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Atrazine	3		ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Benz(a)anthracene			ug/L		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Benzaldehyde			ug/L		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Benzo(a)pyrene	0.2		ug/L		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Benzo(b)fluoranthene			ug/L		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Benzo(g,h,i)perylene			ug/L		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Benzo(k)fluoranthene			ug/L		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Bis(2-chloroethoxy)methane			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Bis(2-chloroethyl)ether			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Bis(2-chloroisopropyl)ether			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Bis(2-ethylhexyl)phthalate			ug/L		< 4.0	< 4.0	< 4.0	< 4.0	4.1
SVOCs	Butyl benzyl phthalate			ug/L		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Caprolactam			ug/L		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Carbazole			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Chrysene			ug/L		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Di-n-butyl phthalate			ug/L		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Di-n-octyl phthalate			ug/L		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Dibenz(a,h)anthracene			ug/L		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Dibenzofuran			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Diethyl phthalate			ug/L		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Dimethyl phthalate			ug/L		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Fluoranthene			ug/L		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Fluorene			ug/L		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Hexachlorobenzene	1		ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Hexachlorobutadiene			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Hexachlorocyclopentadiene	50		ug/L		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Hexachloroethane			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Isophorone			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	N-Nitrosodi-n-propylamine			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	N-Nitrosodiphenylamine			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Naphthalene			ug/L		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Nitrobenzene			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Pentachlorophenol	1		ug/L		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Phenanthrene			ug/L		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Phenol			ug/L		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Pyrene			ug/L		< 0.16	< 0.16	< 0.16	< 0.16	< 0.16

Notes:

MCL - Maximum Contaminant Level

Concentrations in orange shaded cells exceed their MCL

* - site-specific action level

[] - Values in square brackets are 2*Long-term average (LTA) for the well/analyte

Concentrations in blue text exceed their 2*LTA

Bold concentrations indicate detections

J - Result below reporting limit

NA - not analyzed

- 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

SVOCs - semivolatile organic compounds

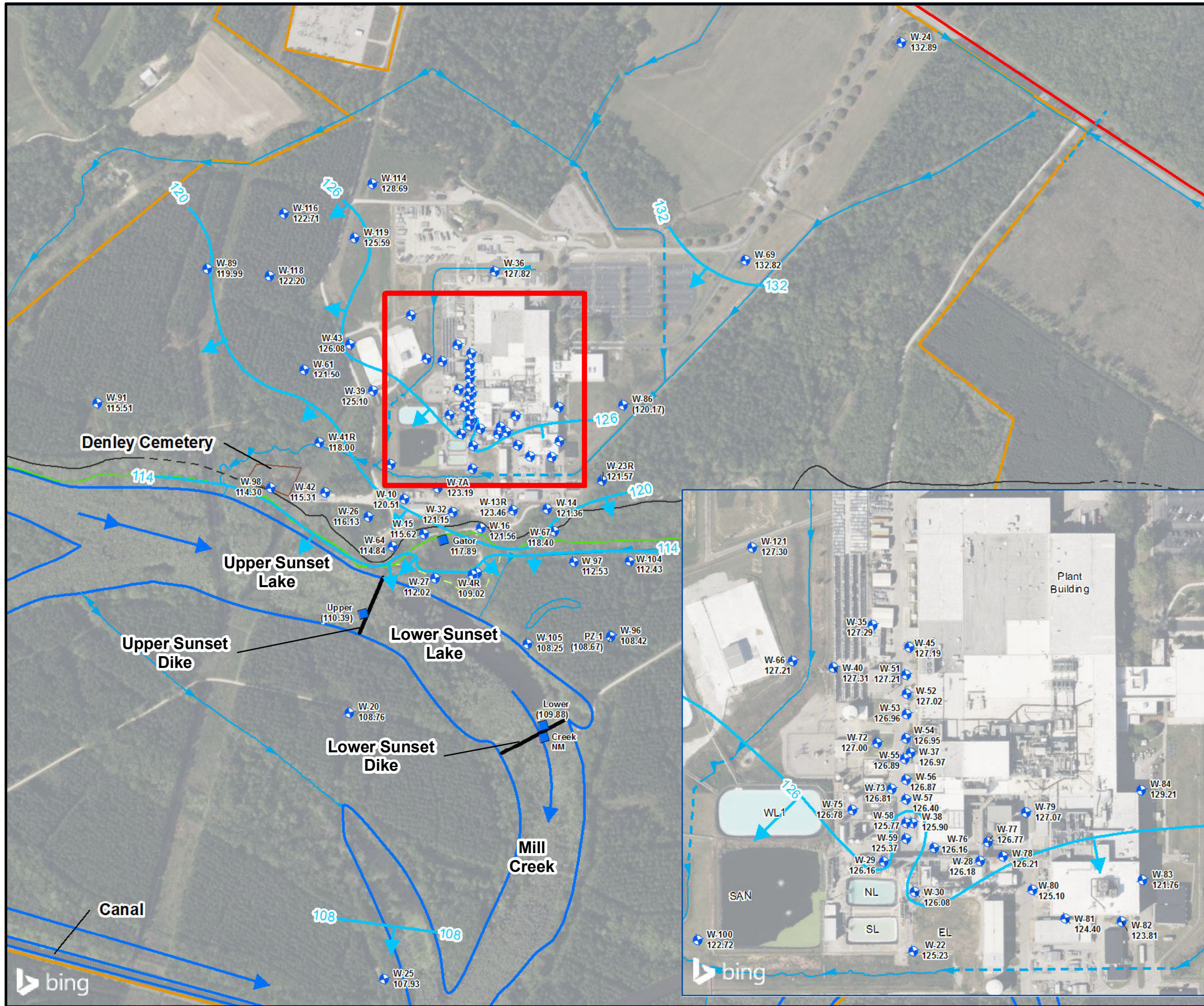
VOCs - volatile organic compounds

N - Normal sample

FD - Field duplicate sample

Attachment B

**Potentiometric and Plume Maps
April 2022 Semiannual GW Sampling Campaign**



Legend

- Surficial Aquifer - Upper Zone Monitoring Well
 - Mill Creek
 - Property Line
 - SCRDI Bluff Road (Superfund Site)
 - Culvert
 - Ditch
 - Mill Creek Flow Direction
 - Dike Location
 - Staff Gauge Location
 - Top of Bluff
 - Inferred Top of Bluff
 - Bottom of Bluff
 - Inferred Bottom of Bluff
 - Secondary Bluff Area
 - EL Former East Lagoon
 - NL North Lagoon
 - SL South Lagoon
 - SAN Sanitary Lagoon
 - WL1 West Lagoon I
 - WL2 West Lagoon II
 - Potentiometric Line (C.I. = 6 feet)
 - Direction of Groundwater
 - 121.57 Groundwater Elevation
 - (120.17) Elevation for illustrative purposes only
- Based upon data collected on April 1, 2022



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

Datum: North American 1983

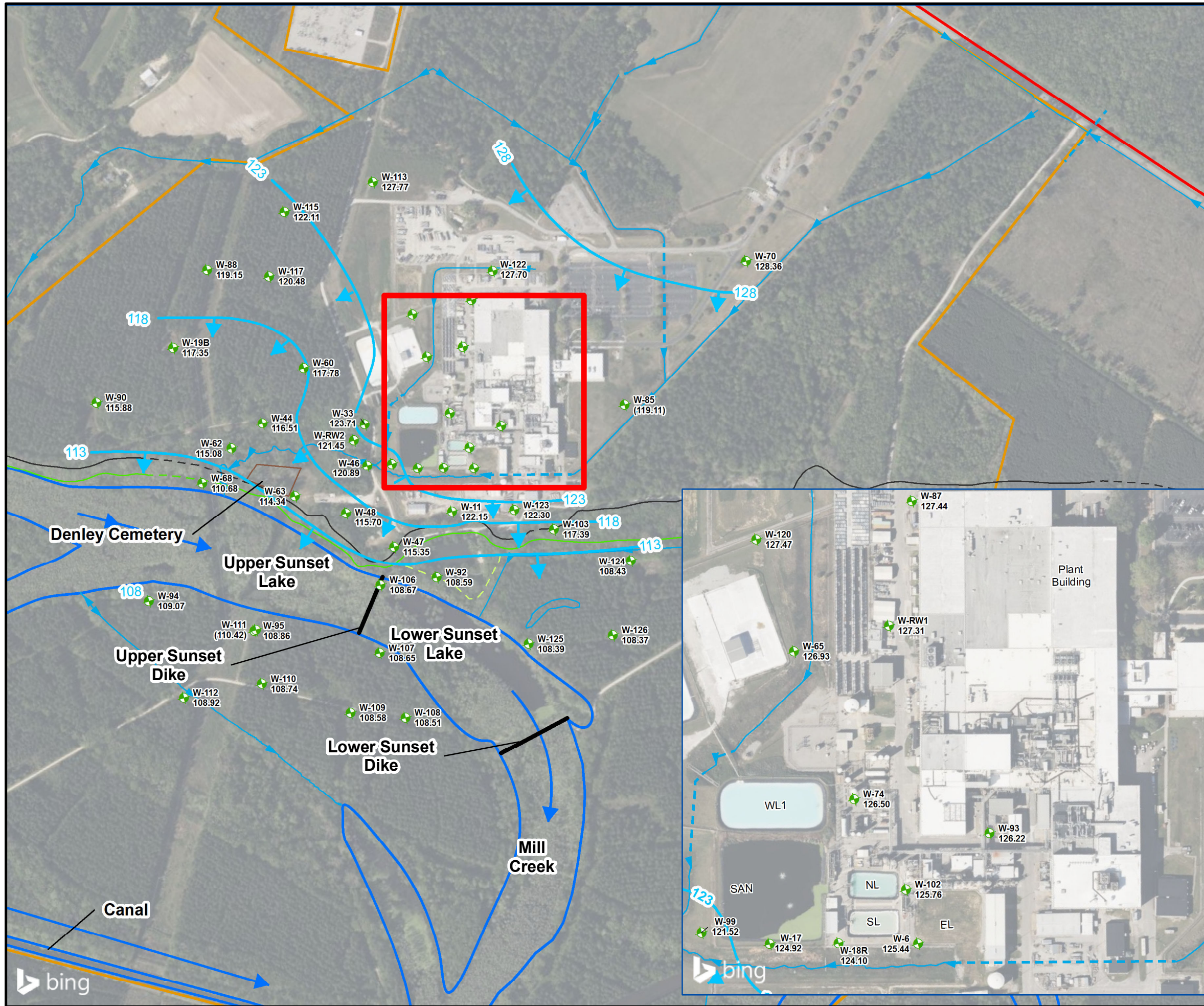


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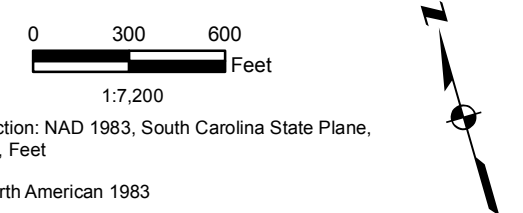
Surficial Aquifer - Upper Zone Potentiometric Map April 2022

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

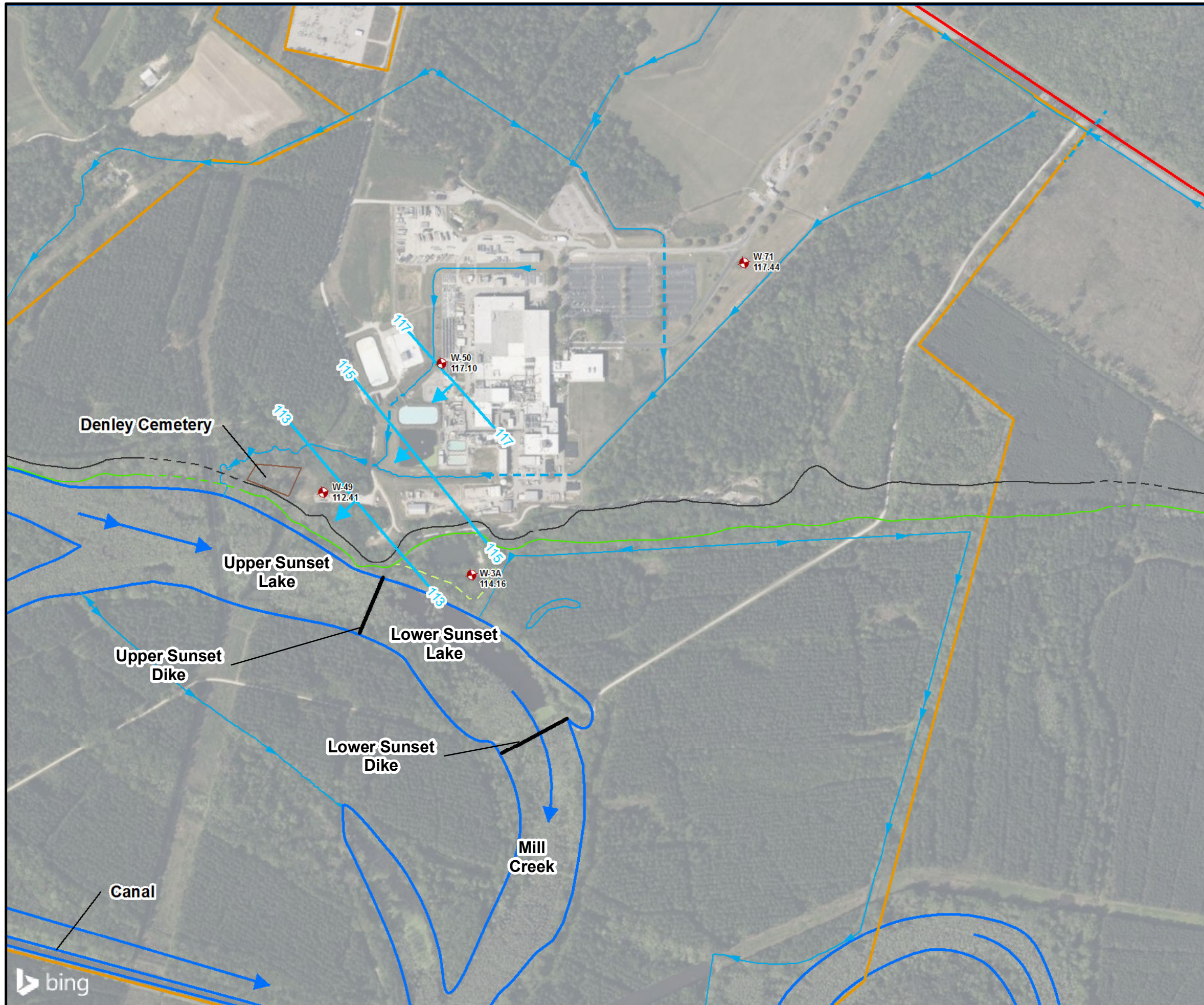
PROJECT NO. 60641050	PREPARED BY: CCS	DATE: August 2022	FIGURE 6
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- Legend**
- Surficial Aquifer - Lower Zone Monitoring Well
 - Mill Creek
 - Property Line
 - SCRDI Bluff Road (Superfund Site)
 - Culvert
 - Ditch
 - Mill Creek Flow Direction
 - Dike Location
 - Top of Bluff
 - Inferred Top of Bluff
 - Bottom of Bluff
 - Inferred Bottom of Bluff
 - Secondary Bluff Area
 - EL Former East Lagoon
 - NL North Lagoon
 - SL South Lagoon
 - SAN Sanitary Lagoon
 - WL1 West Lagoon I
 - WL2 West Lagoon II
 - Potentiometric Line (C.I. = 5 feet)
 - Direction of Groundwater
 - 108.43 Groundwater Elevation
 - (119.11) Elevation for illustrative purposes only
- Based upon data collected on April 1, 2022

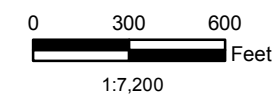


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	Surficial Aquifer - Lower Zone Potentiometric Map April 2022 WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY HOPKINS, SOUTH CAROLINA		
PROJECT NO. 60641050	PREPARED BY: CCS	DATE: August 2022	FIGURE 8



- Legend**
- Black Creek Aquifer Monitoring Well
 - Mill Creek
 - Property Line
 - SCRDI Bluff Road (Superfund Site)
 - Culvert
 - Ditch
 - Mill Creek Flow Direction
 - Dike Location
 - Top of Bluff
 - Inferred Top of Bluff
 - Bottom of Bluff
 - Inferred Bottom of Bluff
 - Secondary Bluff Area
 - EL Former East Lagoon
 - NL North Lagoon
 - SL South Lagoon
 - SAN Sanitary Lagoon
 - WL1 West Lagoon I
 - WL2 West Lagoon II
 - Potentiometric Line (C.I. = 2 feet, dashed where inferred)
 - Direction of Groundwater

117.44 Groundwater Elevation
Based upon data collected on April 1, 2022



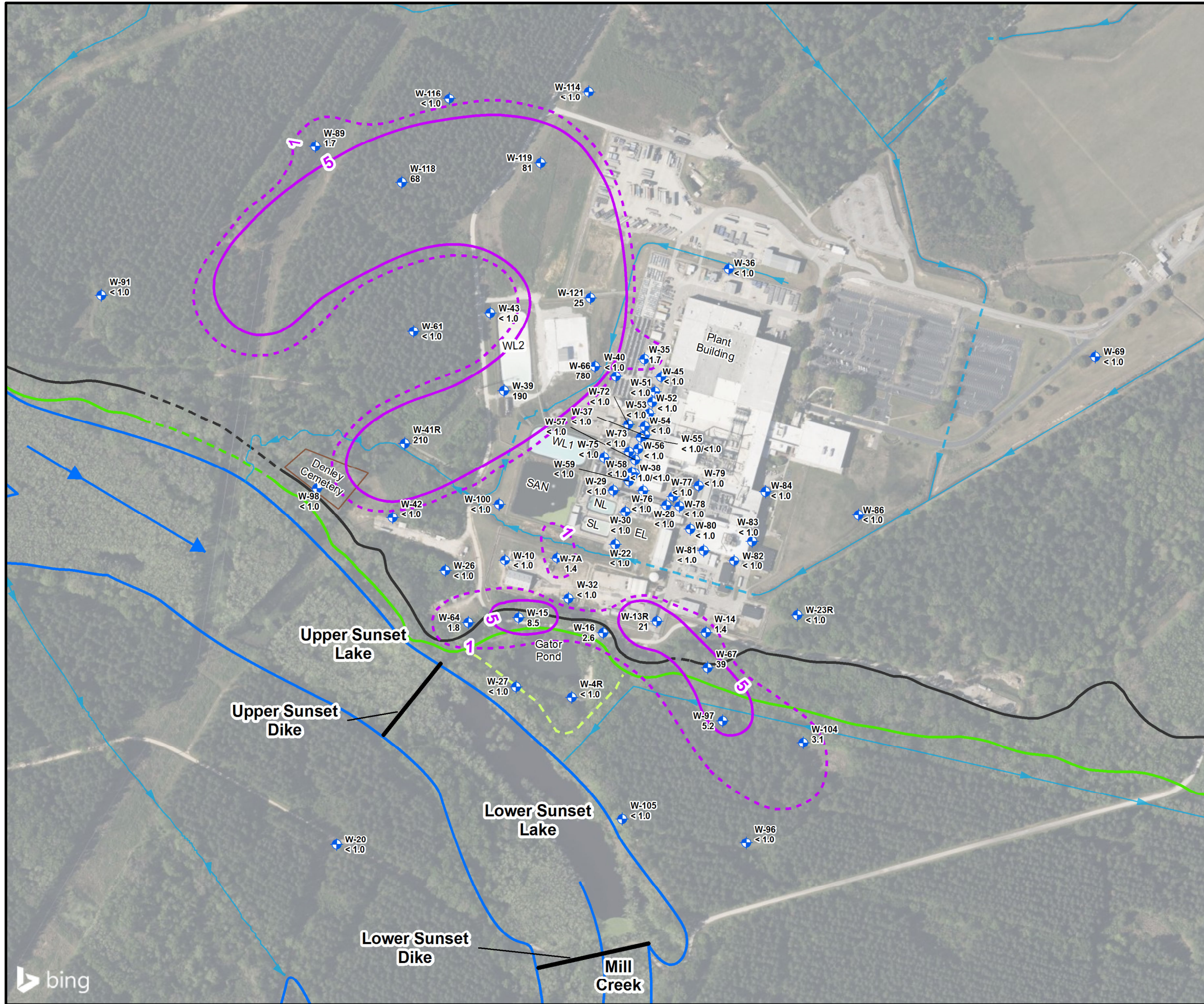
Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet
Datum: North American 1983



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**Black Creek Aquifer
Potentiometric Map April 2022**
WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO. 60641050	PREPARED BY: CCS	DATE: August 2022	FIGURE 10
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Legend

- Surficial Aquifer - Upper Zone Monitoring Well
- Ditch
- Culvert
- Dike Location
- Mill Creek
- Mill Creek Flow Direction
- Top of Bluff
- Inferred Top of Bluff
- Bottom of Bluff
- Inferred Bottom of Bluff
- Secondary Bluff Area
- PCE Isoconcentration Contour (5 µg/L)
- PCE Isoconcentration Contour at or Above the Detection Limit (µg/L)

780 PCE Concentration in µg/L
 EL Former East Lagoon
 NL North Lagoon
 SL South Lagoon
 SAN Sanitary Lagoon
 WL1 West Lagoon 1
 WL2 West Lagoon 2

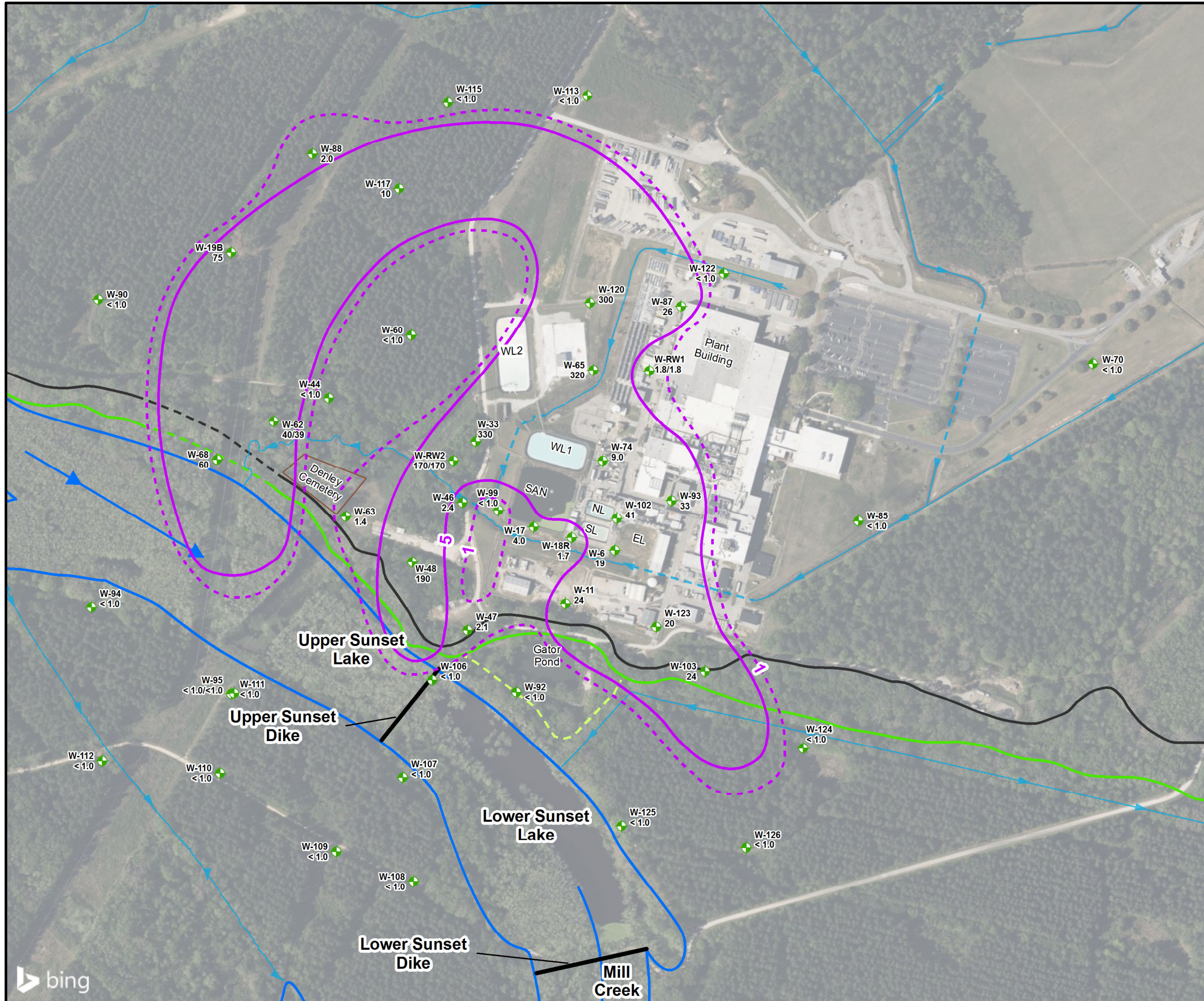
Notes:
 Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

Wells displaying two concentration values had a quality control duplicate sample taken.

0 200 400
 Feet
 1 inch = 400 feet

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

	101 Research Drive Columbia, SC 29203 T: (803) 254-4400 F: (803) 771-6676		
	Extent of PCE - Surficial Aquifer - Upper Zone April 2022 WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY HOPKINS, SOUTH CAROLINA		
PROJECT NO: 60641050	PREPARED BY: CCS	DATE: June 2022	FIGURE 12



Legend

- Surficial Aquifer - Lower Zone Monitoring Well
- Ditch
- Culvert
- Dike Location
- Mill Creek Flow Direction
- Mill Creek
- Top of Bluff
- Inferred Top of Bluff
- Bottom of Bluff
- Inferred Bottom of Bluff
- Secondary Bluff Area
- PCE Isoconcentration Contour (5 µg/L)
- PCE Isoconcentration Contour at or Above the Detection Limit (µg/L)

320 PCE Concentration in µg/L
 EL Former East Lagoon
 NL North Lagoon
 SL South Lagoon
 SAN Sanitary Lagoon
 WL1 West Lagoon 1
 WL2 West Lagoon 2

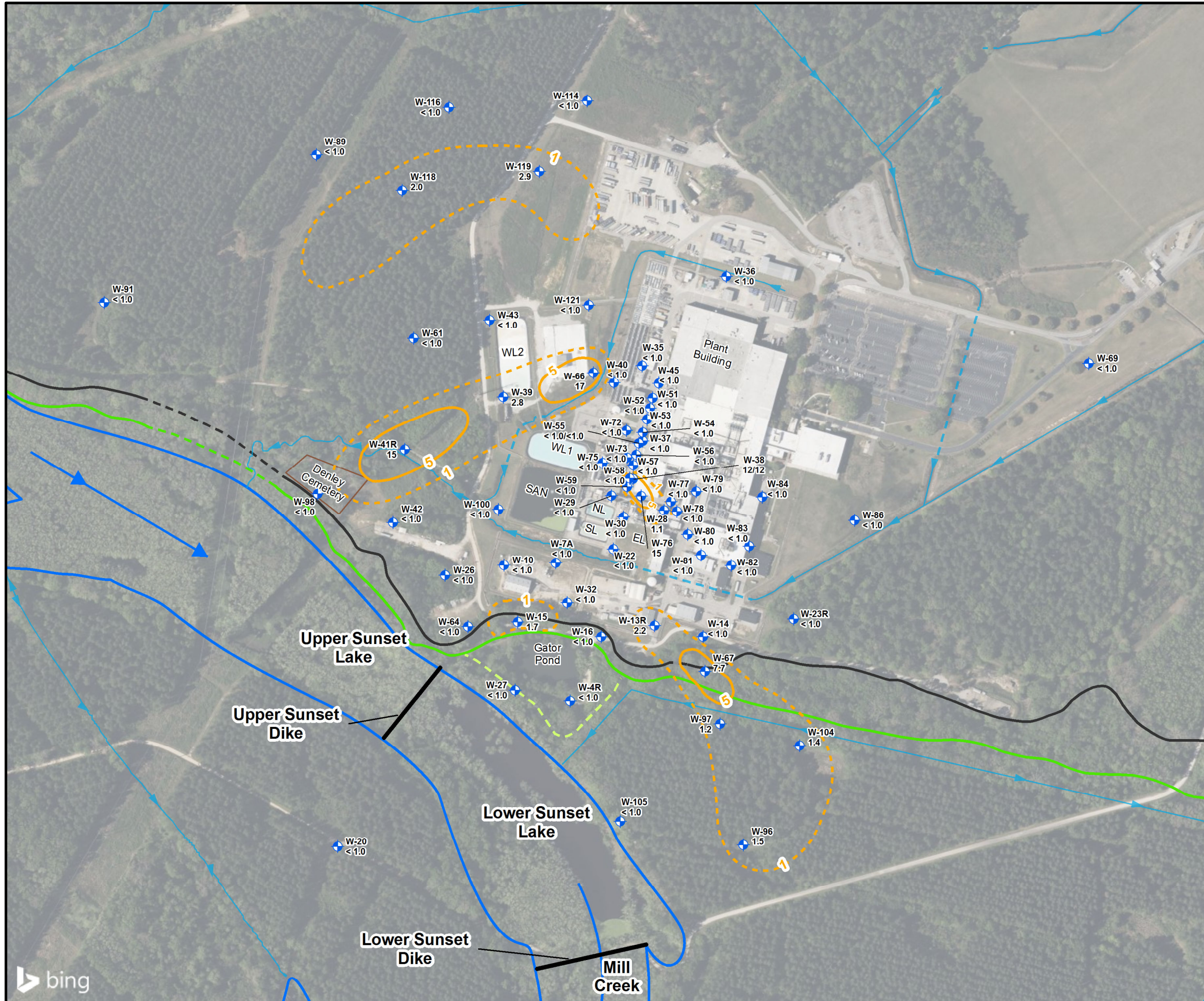
Notes:
 Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

Wells displaying two concentration values had a quality control duplicate sample taken.

0 200 400
 Feet
 1 inch = 400 feet

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

	101 Research Drive Columbia, SC 29203 T: (803) 254-4400 F: (803) 771-6676		
	Extent of PCE Surficial Aquifer - Lower Zone April 2022 WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY HOPKINS, SOUTH CAROLINA		
PROJECT NO: 60641050	PREPARED BY: CCS	DATE: August 2022	FIGURE 14

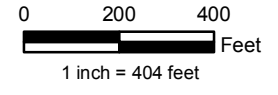


Legend

- Surficial Aquifer - Upper Zone Monitoring Well
- Ditch
- Culvert
- Dike Location
- Mill Creek Flow Direction
- Mill Creek
- Top of Bluff
- Inferred Top of Bluff
- Bottom of Bluff
- Inferred Bottom of Bluff
- Secondary Bluff Area
- TCE Isoconcentration Contour (5 ug/L)
- TCE Isoconcentration Contour at or Above the Detection Limit (ug/L)
- 17 TCE Concentration in ug/L
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

Notes:
 Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

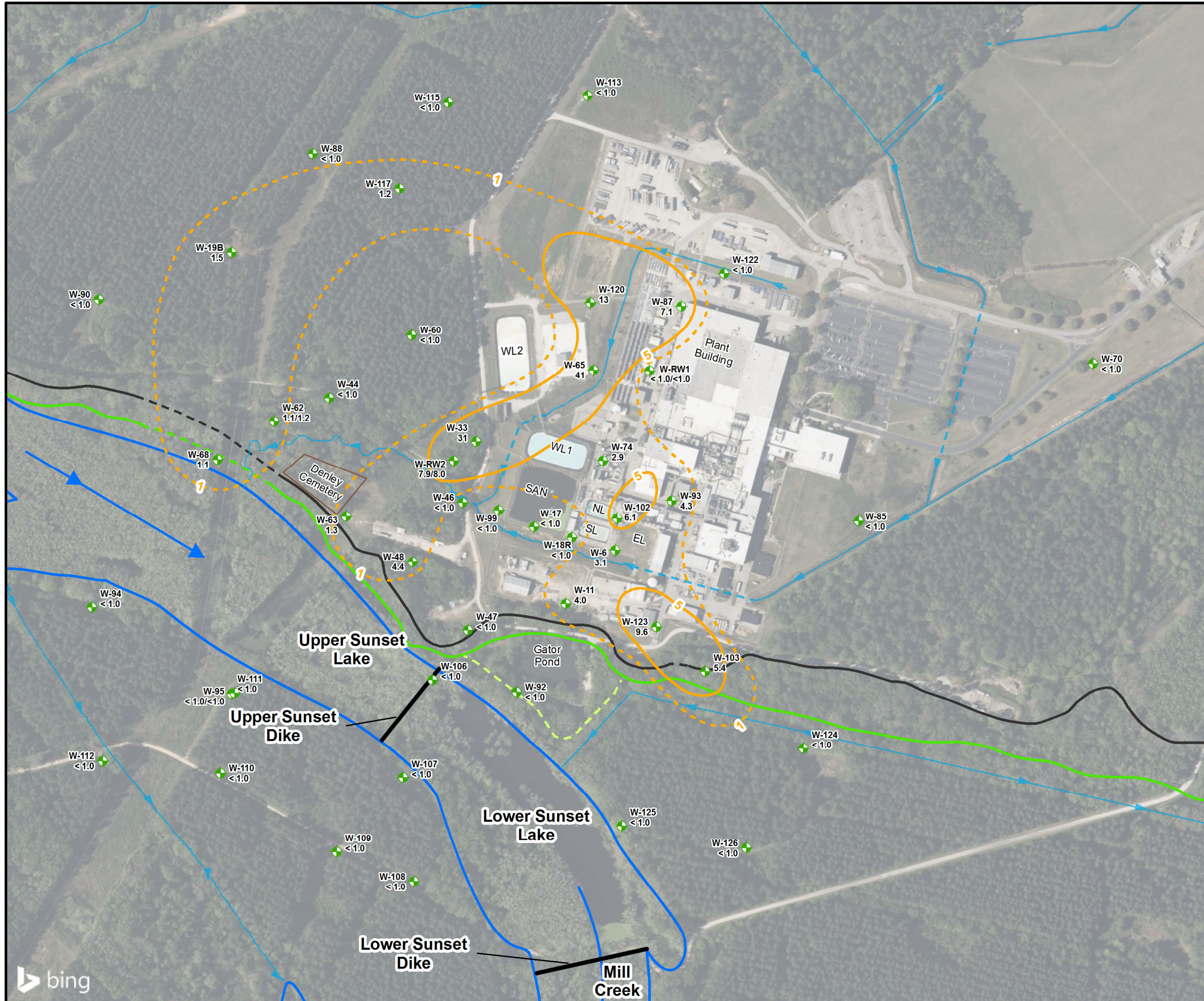
Wells displaying two concentration values had a quality control duplicate sample taken.



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



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	Extent of TCE Surficial Aquifer - Upper Zone April 2022 WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY HOPKINS, SOUTH CAROLINA		
PROJECT NO: 60641050	PREPARED BY: CCS	DATE: August 2022	FIGURE 16

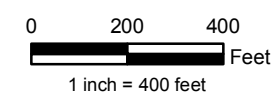


- Legend**
- Surficial Aquifer - Lower Zone Monitoring Well
 - Ditch
 - Culvert
 - Dike Location
 - Mill Creek Flow Direction
 - Mill Creek
 - Top of Bluff
 - Inferred Top of Bluff
 - Bottom of Bluff
 - Inferred Bottom of Bluff
 - Secondary Bluff Area
 - TCE Isoconcentration Contour (5 ug/L)
 - TCE Isoconcentration Contour at or Above the Detection Limit (ug/L)

- 41 TCE Concentration in ug/L
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

Notes:
 Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

Wells displaying two concentration values had a quality control duplicate sample taken.



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

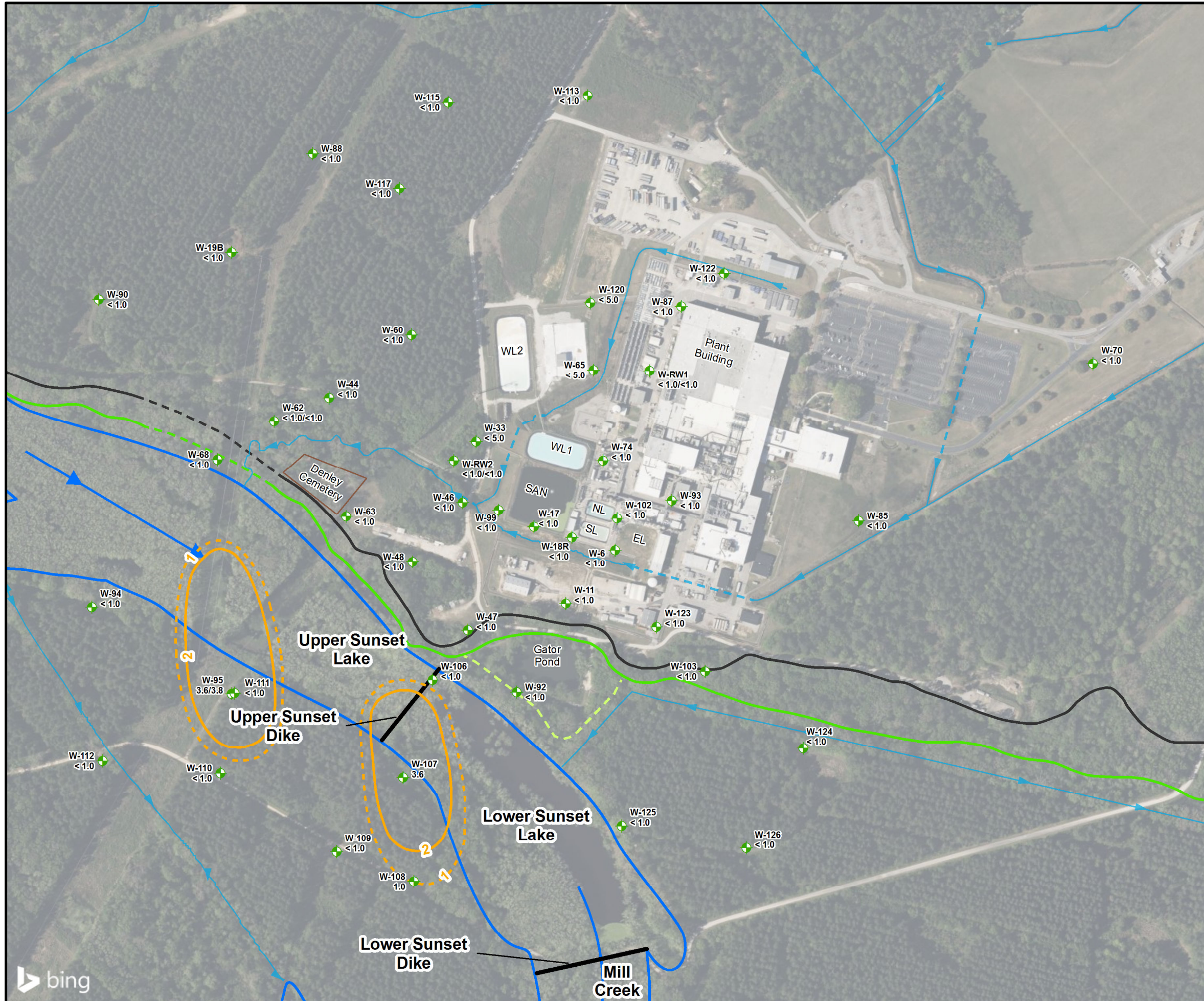


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**Extent of TCE
 Surficial Aquifer - Lower Zone
 April 2022**

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
 HOPKINS, SOUTH CAROLINA

PROJECT NO. 60641050	PREPARED BY: CCS	DATE: June 2022	FIGURE 18
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Legend

- ◆ Surficial Aquifer - Lower Zone Monitoring Well
- Ditch
- - - Culvert
- Ditch
- ➔ Mill Creek Flow Direction
- ▭ Mill Creek
- Top of Bluff
- - - Inferred Top of Bluff
- Bottom of Bluff
- - - Inferred Bottom of Bluff
- ▭ Secondary Bluff Area
- VC Isoconcentration Contour (2 ug/L)
- - - VC Isoconcentration Contour at or Above the Detection Limit (ug/L)
- 3.8 VC Concentration in ug/L
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

Notes:

Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

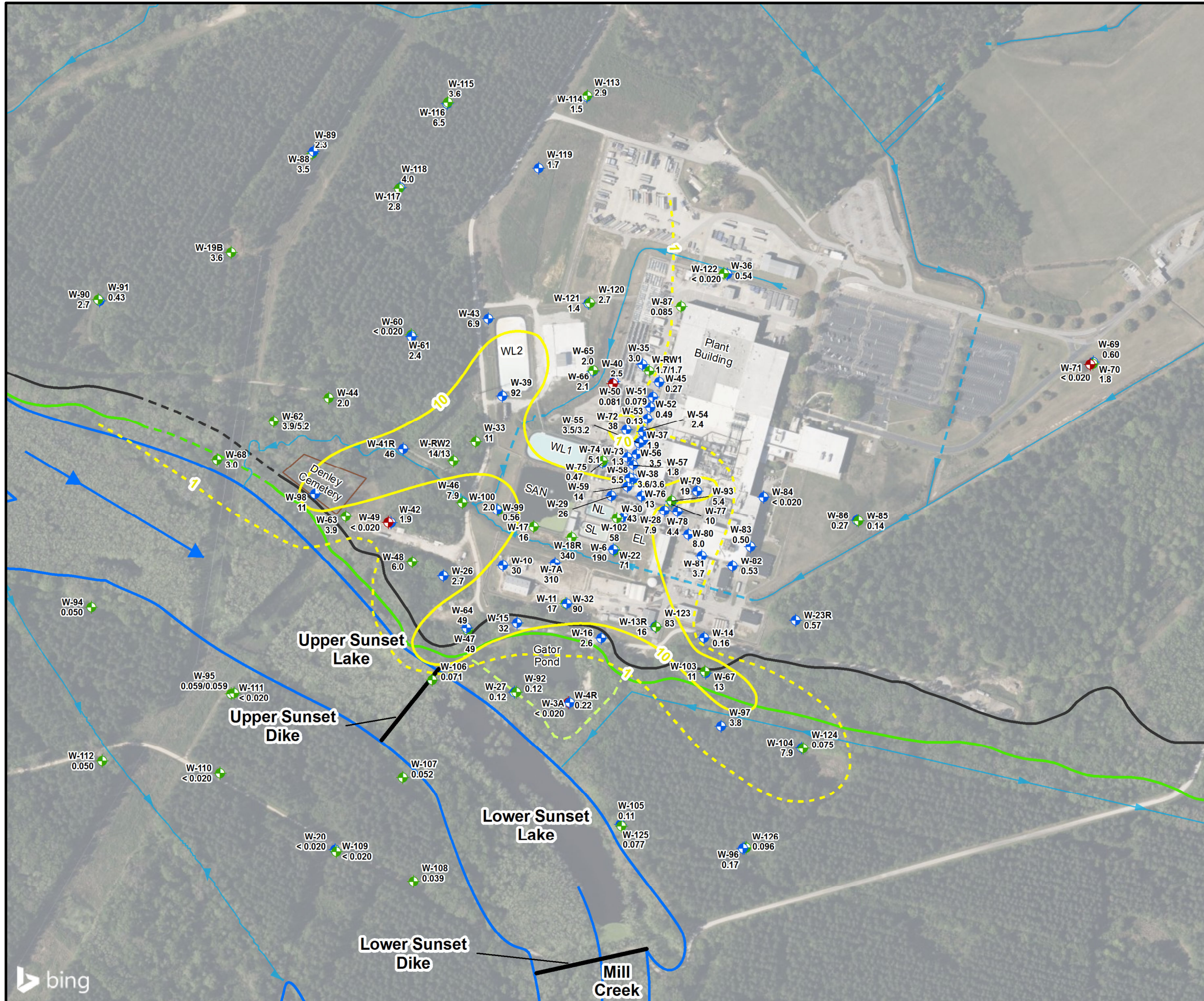
Wells displaying two concentration values had a quality control duplicate sample taken.

0 200 400
 Feet
 1 inch = 400 feet

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

Datum: North American 1983

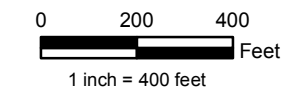
AECOM	101 Research Drive Columbia, SC 29203 T: (803) 254-4400 F: (803) 771-6676		
Extent of VC Surficial Aquifer - Lower Zone April 2022 WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY HOPKINS, SOUTH CAROLINA			
PROJECT NO. 60641050	PREPARED BY: CCS	DATE: August 2022	FIGURE 20



- Legend**
- ◆ Surficial Aquifer - Upper Zone Monitoring Well
 - ◆ Surficial Aquifer - Lower Zone Monitoring Well
 - ◆ Black Creek Aquifer Monitoring Well
 - Ditch
 - - - Culvert
 - Dike Location
 - ▶ Mill Creek Flow Direction
 - ▭ Mill Creek
 - Top of Bluff
 - - - Inferred Top of Bluff
 - Bottom of Bluff
 - - - Inferred Bottom of Bluff
 - - - Secondary Bluff Area
 - Nitrate Isoconcentration Contour (10 mg/L)
 - - - Nitrate Isoconcentration Contour at or Above the Detection Limit (mg/L)
- 340 Nitrate Concentration in mg/L
- EL Former East Lagoon
 NL North Lagoon
 SL South Lagoon
 SAN Sanitary Lagoon
 WL1 West Lagoon 1
 WL2 West Lagoon 2

Notes:
 Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

Wells displaying two concentration values had a quality control duplicate sample taken.



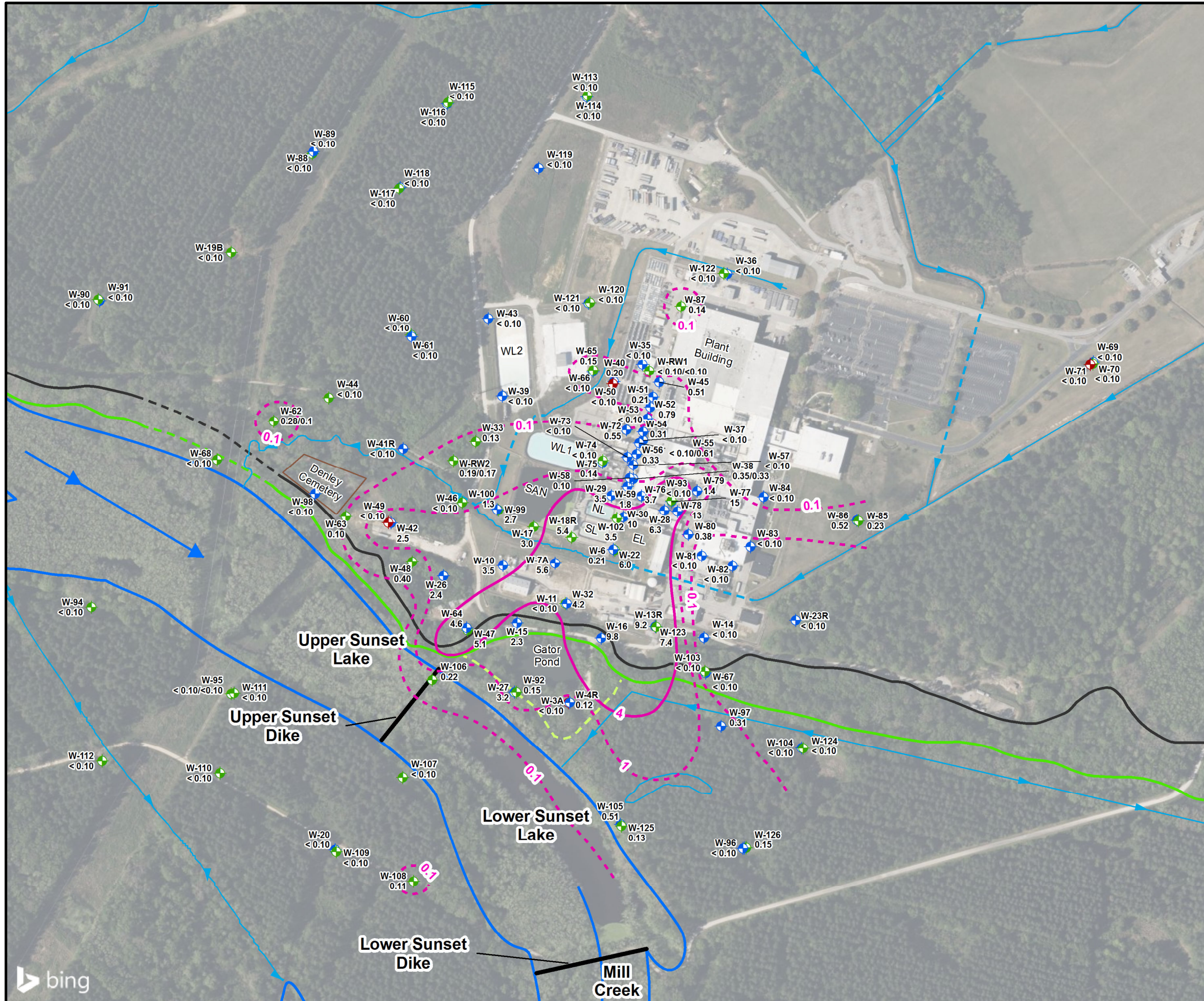
Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet
 Datum: North American 1983

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Extent of Nitrate in Groundwater April 2022

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO. 60641050	PREPARED BY: CCS	DATE: August 2022	FIGURE 22
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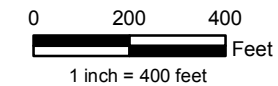


Legend

- ◆ Surficial Aquifer - Upper Zone Monitoring Well
- ◆ Surficial Aquifer - Lower Zone Monitoring Well
- ◆ Black Creek Aquifer Monitoring Well
- Ditch
- - - Culvert
- Dike Location
- ▶ Mill Creek Flow Direction
- ▭ Mill Creek
- Top of Bluff
- - - Inferred Top of Bluff
- Bottom of Bluff
- - - Inferred Bottom of Bluff
- - - Secondary Bluff Area
- Fluoride Isoconcentration Contour (4 mg/L)
- - - Fluoride Isoconcentration Contour at or Above the Detection Limit (mg/L)
- 15.0 Fluoride Concentration in mg/L
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

Notes:
 Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

Wells displaying two concentration values had a quality control duplicate sample taken.



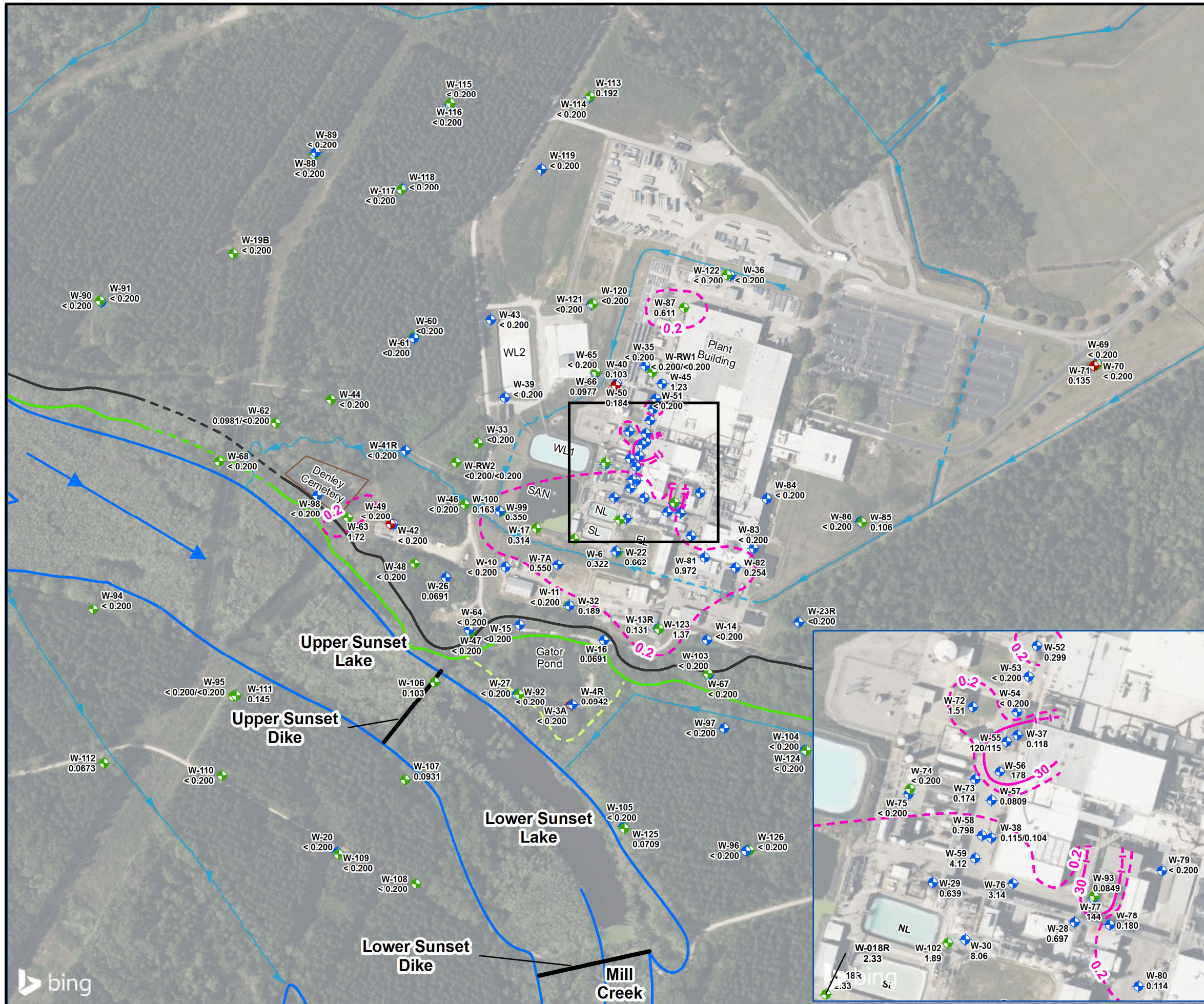
Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet
 NAD: North American Datum 1983

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**Extent of Fluoride in Groundwater
 April 2022**

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
 HOPKINS, SOUTH CAROLINA

PROJECT NO: 60641050	PREPARED BY: CCS	DATE: August 2022	FIGURE 24
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Legend

- ◆ Surficial Aquifer - Upper Zone Monitoring Well
- ◆ Surficial Aquifer - Lower Zone Monitoring Well
- ◆ Black Creek Aquifer Monitoring Well
- Ditch
- - - Culvert
- Dike Location
- Mill Creek Flow Direction
- Mill Creek
- Top of Bluff
- Inferred Top of Bluff
- Bottom of Bluff
- Inferred Bottom of Bluff
- Secondary Bluff Area
- Uranium Isoconcentration Contour (30 µg/L)
- Uranium Inferred Isoconcentration Contour (µg/L)
- Uranium Isoconcentration Contour at or Above the Minimum Detectable Concentration (µg/L)

178 Total Uranium in µg/L
 EL Former East Lagoon
 NL North Lagoon
 SL South Lagoon
 SAN Sanitary Lagoon
 WL1 West Lagoon 1
 WL2 West Lagoon 2

Notes:
 Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

Wells displaying two concentration values had a quality control duplicate sample taken.

0 200 400
 Feet
 1 inch = 400 feet

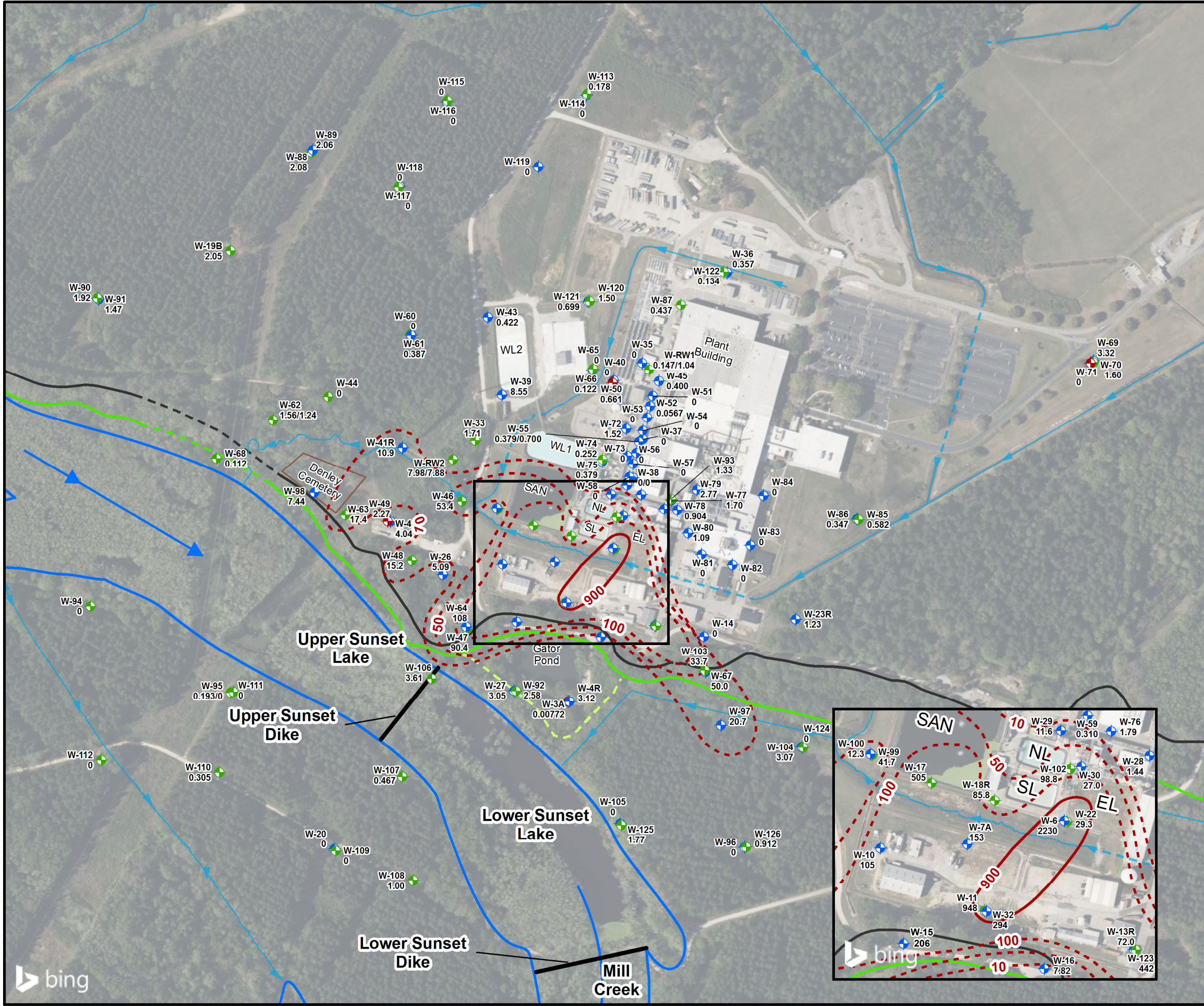
Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet
 Datum: North American 1983

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Extent of Uranium in Groundwater in April 2022

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO. 60641050	PREPARED BY: CCS	DATE: August 2022	FIGURE 26
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Legend

- ◆ Surficial Aquifer - Upper Zone Monitoring Well
- ◆ Surficial Aquifer - Lower Zone Monitoring Well
- ◆ Black Creek Aquifer Monitoring Well
- Ditch
- Culvert
- Dike Location
- ▶ Mill Creek Flow Direction
- Mill Creek
- Top of Bluff
- Inferred Top of Bluff
- Bottom of Bluff
- Inferred Bottom of Bluff
- Secondary Bluff Area
- Tc-99 Isoconcentration Contour (10 pCi/L)
- Tc-99 Isoconcentration Contour at or Above the Minimum Detectable Concentration (pCi/L)

2230 Technetium-99 Concentration in pCi/L

0 Concentration reported as a negative number by the analytical laboratory


EL Former East Lagoon
 NL North Lagoon
 SL South Lagoon
 SAN Sanitary Lagoon
 WL1 West Lagoon 1
 WL2 West Lagoon 2

Notes:
 Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

Wells displaying two concentration values had a quality control duplicate sample taken.

0 200 400
 Feet
 1 inch = 400 feet

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



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Extent of Technetium-99 in Groundwater April 2022

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO: 60641050	PREPARED BY: CCS	DATE: August 2022	FIGURE 28
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