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Nuclear Fuel
Columbia Fuel Fabrication Facility
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Your ref:
Our ref: LTR-RAC-21-09

February 15, 2021

Subject: **January** 2021 CA Progress Report

Ms. Kuhn:

In accordance with Item 19 of Consent Agreement (CA) 19-02-HW, this progress report is being submitted to you, including the following requested information:

(a) a brief description of the actions which Westinghouse has taken toward achieving compliance with the Consent Agreement during the previous month;
(b) results of sampling and tests, in tabular summary format received by Westinghouse during the reporting period;
(c) a brief description of all actions which are scheduled for the next month to achieve compliance with the Consent Agreement, and other information relating to the progress of the work as deemed necessary or requested by the Department; and
(d) information regarding the percentage of work completed and any delays encountered or anticipated that may affect the approved schedule for implementation of the terms of the Consent Agreement, and a description of efforts made to mitigate delays or avoid anticipated delays.

In response to the above requirements, the following is being reported to the Department since the last progress report submitted on **January 8, 2020.** The following progress report is for work occurring from **January 1- 31, 2020**:

(a) Actions during the previous month:
Westinghouse began implementation of the Final Remedial Investigation (RI) Work Plan on 6/10/19. To comply with **Item 4** of the CA, the following actions were completed this month.
- Completed the following activities to support the Southern Storage Area (SSA) Operable Unit (OU) Work Plan:

  - Excavated soil and conducted the subsequent confirmatory soil sampling under intermodal container C-21 for tetrachloroethylene on January 16, 2021.
- Completed the following to support the **Phase II RI** Work Plan:
  - Refined the Primary Soil Gas Survey Area by selecting closer sample intervals within the impacted area, conducting utility location, and installing additional soil gas sampling devices.
  - Teleconferenced with SCDHEC on January 14, 2021 to discuss data collected (to date) during the course of the Phase II RI Investigation. During the teleconference, AECOM proposed additional groundwater screening locations, and permanent well locations on behalf of CFFF that were later submitted in a formal well permit request.
  - Submitted a monitoring well permit request (LTR-RAC-21-08) and received approval by the Department for the installation of up to 10 additional permanent wells and 15 additional temporary wells (MW-12672).
  - Conducted underground utility survey of the permanent well locations.
  - Converted the temporary monitoring well at L-43 to a permanent well (W-102).
  - Installed the following new permanent monitoring wells using sonic drilling:
    - W-98 through W-100
    - W-102 through W105
    - W-107 through W-112

    Please note that the proposed well W-101 was not installed. The depth to clay, based upon the structure contour map, was estimated to be several feet deeper than what was encountered when boring W-101 was drilled. W-101 confirmed that the bottom of the screen of W-11 was within 5 feet (3.5 feet) of the clay. Resultantly, W-11 will be reclassified as a lower zone well, thereby closing the data gap for Tc-99 distribution and migration within the surficial aquifer. Boring W-101 was abandoned with bentonite grout.
  - Submitted the Sanitary Lagoon Operable Unit Sludge Characterization Work Plan as Addendum III to the RI Work Plan on January 28, 2021 (LTR-RAC-21-12).

(b) Results of sampling and tests:

Sediment Sampling Results

- The tabulated sediment sampling results from Phase II of the RI Work Plan are included as **Attachment A** of this monthly report. In addition, Figure 11, *Sediment Assessment Map* from the Phase II RI Work Plan is also included in **Attachment A** for ease of reference and to supplement the tabular data.

Localized Detection of Petroleum Hydrocarbons in Groundwater at Boring L-22

- In the January 14th teleconference with DHEC, AECOM and CFFF shared that laboratory results indicated impact at groundwater screening boring L-22, at the 8-12 foot interval where petroleum hydrocarbons were detected at low concentrations. An extent of condition evaluation was performed by requesting a Library Search for volatile organic compounds (VOCs) from Pace Analytical from select groundwater screening borings and permanent monitoring wells. Results for 7 nearby wells and borings (L-22, L-23, W-35, W-39, W-43,

W-65, and W-66) along with two "control" locations (W-19B and W-67) were selected and evaluated for the presence of VOCs identified in groundwater from L-22-8-12. There was only one additional detection (2,3-dimethyl-Naphthalene @ 5 ug/L in L-23 at the 31-35' screening interval). This data suggests the impact is localized to the area where L-22 was installed. As discussed during the teleconference, CFFF has included the pertinent Library Search excerpts as **Attachment B.**

(c) Brief description of all actions which are scheduled for the next month:
In accordance with **Item 4** of the CA, Westinghouse will continue to implement the Work Plan to include the following actions:

- Begin installation of the pressure transducers in February and/or March in the five monitoring wells around the Gator Pond (W-4, W-15, W-16, W-27 and W-92).
- Complete installation and development of permanent monitoring well W-106.
- Redevelop permanent monitoring well W-25.
- Collect groundwater samples from the newly installed wells.
- Collect the additional Primary Soil Gas Survey Area devices.
- Initiate investigative activities for groundwater screening borings L-48 through L-58 that were proposed in the January 14th teleconference:
    - Clear paths to the boring locations
    - Conduct underground utility survey
    - Conduct the groundwater screening
- Continue East Lagoon closure activities.

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

- 20 % of Phase II Work Scope Completed. This completion estimate remains the same as the December 2020 report because of the additional work scope incorporated into the schedule after the January 14, 2021 teleconference. Currently there are no anticipated delays.

This monthly report also includes updates to information previously submitted in the July 2020 Final Interim RI Data Summary Report. During ongoing assessment of data to complete the RI, CFFF staff discovered that some results in Appendix Table A3 were mistakenly reported in the adjacent sample id column (e.g. SED-40 results for isotopic uranium analysis were reported as SED-39). **The enclosed updates to the data in the July 2020 Final Interim RI Data Summary Report did not alter any of the conclusions within the report. The plume maps indicate that the plume shapes and area of impact did not change.**

A comprehensive extent of condition was performed on all the data submitted with the Final Interim RI Data Summary Report, resulting in the following updates:

Tables:

- Tables 3, 4, 5, and 6 needed data revisions because of manual formatting that was conducted on the tables after they were extracted from the environmental database, which resulted in data being listed in the wrong columns.

- Appendix Table A2 and Appendix Table A3 needed data revisions, also because of manual formatting errors.

Figures:

- Wells sampled in duplicate did not have both results reported on the applicable figures. For example, on Figure 7, Extent of PCE—Lower Aquifers W-33 should have been reported as "300/330" instead of "300". Similarly, W-48 should have been reported as "200/200", not "200". All affected figures (Figures 6-13), for the wells sampled in duplicate (W-10, W-33, W-48, W-49, and W-54) were updated with both results.
- Extent of PCE—Upper Aquifers (Figure 6):
  - W-11 should be 1.4 instead of 1.1.
  - Well label and result for W-18R (Lower Surficial Aquifer) should be deleted.
- Extent of PCE—Lower Aquifers (Figure 7):
  - W-18R should be 3.5 instead of 3.15.
- Extent of TCE—Upper Aquifers (Figure 8):
  - W-90 label should actually be W-91 with a NS result.
- Extent of TCE—Lower Aquifers (Figure 9):
  - The locations and reported results for wells W-6 and W-18R are interchanged.
- Extent of Fluoride in Groundwater (Figure 11):
  - The revised figure includes a 1.0 mg/L contour around monitoring well W-52, based on a Fluoride detection of 1.39 mg/L.
- Extent of Technetium-99 in Groundwater (Figure 12):
  - Well markers for W-40 and W-85 were present but the numerical ids and results were missing.
  - Many results were reported as "<50 pCi/L", the reporting limit (RL) for Tc-99 at the time of the sampling. This is inconsistent with the reporting method for other figures in the Data Summary Report. The revised figure displays reported values, even those below the MDC and indicates as such by a "#" symbol. Negative values are displayed as "0" and indicated by a "##" symbol.
- Extent of Uranium in Groundwater (Figure 13):
  - All J values were missing on the map.
  - W-23R was covered up by the inset map.
  - W-45 was reported as 1 in Table 3 but as 1.00 in the actual lab report and on the figure. The proper reporting of the result is 1.00.
  - Aerial transparency was not consistent. It was darker than other maps and therefore corrected.

For ease of correction, the site will provide the following corrected sections of the report in digital and printed formats to update your copies of the report.

Tables (1-8)

Figures (Figures 1-17)

Appendix A, Laboratory Analytical Data Tables (Tables A1-A3)

In addition, copies of the corrected documents are provided in this report as **Attachment C**.

Respectfully,

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

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

Attachment A: Sediment Sampling Results
Attachment B: Laboratory Search Excerpts, Extent of Condition at Groundwater Boring L-22
Attachment C: Updates to the Final Interim RI Report Tables and Figures

Attachment A

Sediment Sampling Results

Sediment Sampling Analytical Results
Westinghouse Columbia Fuel Fabrication Facility
Hopkins, SC

				Location	SED-16	SED-16	SED-16	SED-19	SED-19	SED-19	SED-19	SED-20	SED-20	SED-20	SED-20	SED-21	SED-21	SED-21	SED-21
				Depth	0 - 6 in	6 - 12 in	12 - 24 in	0 - 6 in	6 - 12 in	12 - 18 in	12 - 18 in	0 - 6 in	6 - 12 in	12 - 24 in	24 - 36 in	0 - 6 in	6 - 12 in	12 - 24 in	24 - 36 in
				Type	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N
				Date	11/18/2020	11/18/2020	11/18/2020	12/2/2020	12/2/2020	12/2/2020	12/2/2020	11/19/2020	11/19/2020	11/19/2020	11/19/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020
				Sample	SED-16P2-0-6	SED-16P2-6-12	SED-16P2-12-24	SED-19P2-0-6	SED-19P2-6-12	SED-19P2-12-18	SED-19P2-12-18-DUP	SED-20P2-0-6	SED-20P2-6-12	SED-20P2-12-24	SED-20P2-24-36	SED-21P2-0-6	SED-21P2-6-12	SED-21P2-12-24	SED-21P2-24-36
Group	Analyte	RUSL	IUSL	Units															
Radiological	Technetium-99	19	89400	pCi/g	0.614 #	**2.62**	**3.71**	0.208 #	**1.12**	0 ##	NA	0.638 #	0.265 #	0.208 #	0.700 #	**1.17**	0.528 #	0.225 #	0.0586 #
Radiological	Uranium-233/234	13	3310	pCi/g	**67.2**	**63.7**	**6.03**	**19.1**	**27.0**	**2.05**	NA	**1.72**	**2.13**	**1.43**	**1.49**	**13.2**	**2.19**	**1.56**	**1.75**
Radiological	Uranium-235/236	8	39	pCi/g	**3.31**	**3.18**	**0.480**	**1.02**	**1.22**	0.0675 #	NA	0.0212 #	0.0940 #	**0.145**	0.0841 #	**0.393**	0.131 #	0.0344 #	0 ##
Radiological	Uranium-238	14	179	pCi/g	**12.1**	**11.8**	**1.99**	**5.15**	**6.42**	**1.51**	NA	**1.67**	**1.50**	**1.89**	**1.40**	**3.79**	**1.51**	**1.07**	**0.970**
Chemical	Ammonia			mg/kg	**91.8**	**39.4**	**8.90**	**761**	**1100**	**277**	NA	**113**	**79.9**	**70.8**	**54.7**	**476**	**474**	**282**	**180**
Chemical	Fluoride			mg/kg	**15.5**	**10.3**	**3.78**	**59.7**	**28.5**	**3.98**	NA	**6.63**	**4.93**	**4.01**	**8.50**	**13.2**	**8.86**	**4.73**	**4.45**
Chemical	Solids			%	**78.1**	**77.4**	**82.8**	**9.54**	**11.3**	**24.5**	**23.8**	**57.6**	**65**	**67.8**	**68.2**	**10.8**	**27**	**57.5**	**33.4**
VOCs	1,1-Dichloroethene			ug/kg	< 5.3	< 5	< 4.9	< 74	< 60	< 26	< 24	< 8.2	< 7.4	< 7	< 6.4	< 54	< 19	< 8.9	< 15
VOCs	1,2-Dichloroethane			ug/kg	< 5.3	< 5	< 4.9	< 74	< 60	< 26	< 24	< 8.2	< 7.4	< 7	< 6.4	< 54	< 19	< 8.9	< 15
VOCs	cis-1,2-Dichloroethene			ug/kg	< 5.3	< 5	< 4.9	< 74	< 60	< 26	< 24	< 8.2	< 7.4	< 7	< 6.4	< 54	< 19	< 8.9	< 15
VOCs	Tetrachloroethene			ug/kg	< 5.3	< 5	< 4.9	< 74	< 60	< 26	< 24	< 8.2	< 7.4	< 7	< 6.4	< 54	< 19	< 8.9	< 15
VOCs	trans-1,2-Dichloroethene			ug/kg	< 5.3	< 5	< 4.9	< 74	< 60	< 26	< 24	< 8.2	< 7.4	< 7	< 6.4	< 54	< 19	< 8.9	< 15
VOCs	Trichloroethene			ug/kg	< 5.3	< 5	< 4.9	< 74	< 60	< 26	< 24	< 8.2	< 7.4	< 7	< 6.4	< 54	< 19	< 8.9	< 15
VOCs	Vinyl chloride			ug/kg	< 5.3	< 5	< 4.9	< 74	< 60	< 26	< 24	< 8.2	< 7.4	< 7	< 6.4	< 54	< 19	< 8.9	< 15

Sediment Sampling Analytical Results
Westinghouse Columbia Fuel Fabrication Facility
Hopkins, SC

				Location	SED-22	SED-22	SED-22	SED-22	SED-23	SED-23	SED-23	SED-23	SED-24	SED-24	SED-24	SED-38	SED-38	SED-38	SED-38
				Depth	0 - 6 in	6 - 12 in	12 - 24 in	24 - 36 in	0 - 6 in	6 - 12 in	12 - 24 in	24 - 36 in	0 - 6 in	6 - 12 in	12 - 18 in	0 - 6 in	6 - 12 in	12 - 24 in	24 - 36 in
				Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Date	11/9/2020	11/9/2020	11/9/2020	11/9/2020	11/16/2020	11/16/2020	11/16/2020	11/16/2020	11/16/2020	11/16/2020	11/16/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020
				Sample	SED-22P2-0-6	SED-22P2-6-12	SED-22P2-12-24	SED-22P2-24-36	SED-23P2-0-6	SED-23P2-6-12	SED-23P2-12-24	SED-23P2-24-36	SED-24P2-0-6	SED-24P2-6-12	SED-24P2-12-18	SED-38P2-0-6	SED-38P2-6-12	SED-38P2-12-24	SED-38P2-24-36
Group	Analyte	RUSL	IUSL	Units															
Radiological	Technetium-99	19	89400	pCi/g	0.304 #	0.0333 #	0 ##	0 ##	**144**	**30.6**	**1.40**	**0.785**	**118**	**158**	**33.3**	**2.13**	0.116 #	0.174 #	0.128 #
Radiological	Uranium-233/234	13	3310	pCi/g	**6.21**	**1.97**	**1.09**	**1.81**	**1.36**	**1.19**	**1.06**	**1.11**	**3.12**	**2.63**	**1.57**	**60.9**	**4.19**	**3.01**	**1.74**
Radiological	Uranium-235/236	8	39	pCi/g	**0.257**	0.192 #	0.0350 #	0.225 #	0.0994 #	0.0658 #	0.0187 #	0.0379 #	0.160 #	0.153 #	**0.217**	**3.12**	**0.276**	**0.188**	0.0835 #
Radiological	Uranium-238	14	179	pCi/g	**2.24**	**0.971**	**0.838**	**1.08**	**1.36**	**1.29**	**1.19**	**0.736**	**2.13**	**1.67**	**1.47**	**17.0**	**2.52**	**1.71**	**1.60**
Chemical	Ammonia			mg/kg	**531**	**386**	**137**	**75.9**	**680**	**288**	**200**	**291**	**1080**	**1170**	**322**	**581**	**491**	**596**	**306**
Chemical	Fluoride			mg/kg	**9.90**	**6.95**	**1.79**	**3.02**	**89.6**	**55.3**	**41.6**	**48.5**	**152**	**135**	**62.7**	**5.56**	**5.91**	**4.27 J**	**3.55**
Chemical	Solids			%	**37.1**	**41.2**	**71**	**72.7**	**26.3**	**47.4**	**76.7**	**76.5**	**11.9**	**10.3**	**55.2**	**30.5**	**29.4**	**35.4**	**60.1**
VOCs	1,1-Dichloroethene			ug/kg	< 34	< 15	< 5.6	< 7	< 25	< 9.9	< 5.3	< 5.2	< 58	< 6.5	< 9.9	< 18	< 22	< 41	< 8.6
VOCs	1,2-Dichloroethane			ug/kg	< 34	< 15	< 5.6	< 7	< 25	< 9.9	< 5.3	< 5.2	< 58	< 6.5	< 9.9	< 18	< 22	< 41	< 8.6
VOCs	cis-1,2-Dichloroethene			ug/kg	< 34	< 15	< 5.6	< 7	< 25	< 9.9	< 5.3	< 5.2	< 58	< 6.5	< 9.9	< 18	< 22	< 41	< 8.6
VOCs	Tetrachloroethene			ug/kg	< 34	< 15	< 5.6	< 7	< 25	< 9.9	< 5.3	< 5.2	< 58	< 6.5	< 9.9	< 18	< 22	< 41	< 8.6
VOCs	trans-1,2-Dichloroethene			ug/kg	< 34	< 15	< 5.6	< 7	< 25	< 9.9	< 5.3	< 5.2	< 58	< 6.5	< 9.9	< 18	< 22	< 41	< 8.6
VOCs	Trichloroethene			ug/kg	< 34	< 15	< 5.6	< 7	< 25	< 9.9	< 5.3	< 5.2	< 58	< 6.5	< 9.9	< 18	< 22	< 41	< 8.6
VOCs	Vinyl chloride			ug/kg	< 34	< 15	< 5.6	< 7	< 25	< 9.9	< 5.3	< 5.2	< 58	< 6.5	< 9.9	< 18	< 22	< 41	< 8.6

Sediment Sampling Analytical Results
Westinghouse Columbia Fuel Fabrication Facility
Hopkins, SC

				Location	SED-38	SED-39	SED-39	SED-39	SED-39	SED-40	SED-40	SED-40	SED-40	SED-41	SED-41	SED-41	SED-41	SED-42	SED-42
				Depth	24 - 36 in	0 - 6 in	6 - 12 in	12 - 24 in	24 - 36 in	0 - 6 in	6 - 12 in	12 - 24 in	24 - 36 in	0 - 6 in	6 - 12 in	12 - 24 in	24 - 36 in	0 - 6 in	6 - 12 in
				Type	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Date	11/10/2020	11/19/2020	11/19/2020	11/19/2020	11/19/2020	11/19/2020	11/19/2020	11/19/2020	11/19/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/11/2020	11/11/2020
				Sample	SED-38P2-24-36-DUP	SED-39P2-0-6	SED-39P2-6-12	SED-39P2-12-24	SED-39P2-24-36	SED-40P2-0-6	SED-40P2-6-12	SED-40P2-12-24	SED-40P2-24-36	SED-41P2-0-6	SED-41P2-6-12	SED-41P2-12-24	SED-41P2-24-36	SED-42P2-0-6	SED-42P2-6-12
Group	Analyte	RUSL	IUSL	Units															
Radiological	Technetium-99	19	89400	pCi/g	0.144 #	0.626 #	0.732 #	0.536 #	0.281 #	0.400 #	0.199 #	0.0850 #	0.137 #	**1.12**	0.0380 #	0.216 #	0.185 #	**1.21**	0.137 #
Radiological	Uranium-233/234	13	3310	pCi/g	**1.66**	**2.22**	**2.37**	**1.58**	**1.86**	**4.69**	**1.34**	**1.17**	**1.36**	**17.0**	**1.84**	**2.14**	**0.806**	**31.1**	**4.34**
Radiological	Uranium-235/236	8	39	pCi/g	0.0261 #	**0.0959**	0.0929 #	**0.243**	**0.181**	**0.362**	0.0449 #	0 ##	0.0645 #	**0.789**	0.0733 #	0 ##	0.0600 #	**1.18**	0.248 #
Radiological	Uranium-238	14	179	pCi/g	**1.25**	**1.81**	**1.85**	**1.63**	**1.96**	**2.29**	**1.43**	**1.09**	**1.23**	**3.38**	**1.29**	**1.87**	**0.925**	**7.57**	**1.68**
Chemical	Ammonia			mg/kg	**393**	**329**	**274**	**72.7**	**56.9**	**1110**	**122**	**140**	**37.2**	**897**	**367**	**555**	**896**	**2110**	**1040**
Chemical	Fluoride			mg/kg	**3.90**	**2.60**	**2.41 J**	< 1.43	**3.75**	**3.95**	**0.668 J**	**2.09**	**1.42**	**14.6**	**5.18**	**2.10 J**	**5.77**	**26.5**	**7.98**
Chemical	Solids			%	**54.4**	**56.1**	**57.2**	**67.4**	**67.8**	**30.7**	**66.8**	**68.5**	**75.9**	**8.43**	**18.1**	**41.8**	**30**	**11.6**	**13.1**
VOCs	1,1-Dichloroethene			ug/kg	< 9.8	< 8.7	< 10	< 7.1	< 6.2	< 19	< 7.3	< 6.6	< 5.5	< 74	< 30	< 12	< 22	< 61	< 49
VOCs	1,2-Dichloroethane			ug/kg	< 9.8	< 8.7	< 10	< 7.1	< 6.2	< 19	< 7.3	< 6.6	< 5.5	< 74	< 30	< 12	< 22	< 61	< 49
VOCs	cis-1,2-Dichloroethene			ug/kg	< 9.8	< 8.7	< 10	< 7.1	< 6.2	< 19	< 7.3	< 6.6	< 5.5	< 74	< 30	< 12	< 22	< 61	< 49
VOCs	Tetrachloroethene			ug/kg	< 9.8	< 8.7	< 10	< 7.1	< 6.2	< 19	< 7.3	< 6.6	< 5.5	< 74	< 30	< 12	< 22	< 61	< 49
VOCs	trans-1,2-Dichloroethene			ug/kg	< 9.8	< 8.7	< 10	< 7.1	< 6.2	< 19	< 7.3	< 6.6	< 5.5	< 74	< 30	< 12	< 22	< 61	< 49
VOCs	Trichloroethene			ug/kg	< 9.8	< 8.7	< 10	< 7.1	< 6.2	< 19	< 7.3	< 6.6	< 5.5	< 74	< 30	< 12	< 22	< 61	< 49
VOCs	Vinyl chloride			ug/kg	< 9.8	< 8.7	< 10	< 7.1	< 6.2	< 19	< 7.3	< 6.6	< 5.5	< 74	< 30	< 12	< 22	< 61	< 49

Sediment Sampling Analytical Results
Westinghouse Columbia Fuel Fabrication Facility
Hopkins, SC

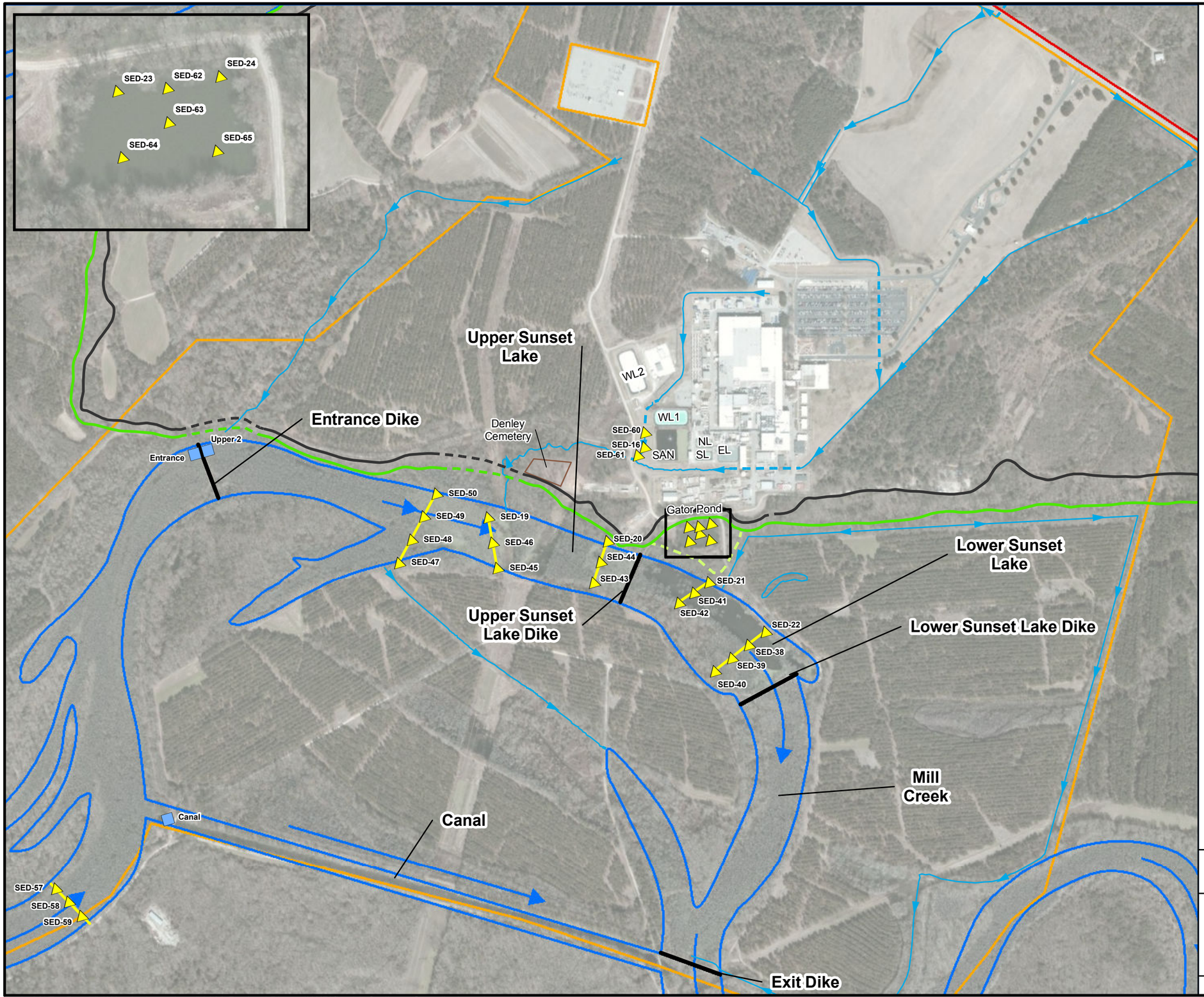
				Location	SED-42	SED-42	SED-43	SED-43	SED-44	SED-44	SED-44	SED-45	SED-45	SED-46	SED-46	SED-47	SED-47	SED-48	SED-48	SED-48
				Depth	12 - 24 in	24 - 36 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	12 - 18 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	12 - 18 in
				Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Date	11/11/2020	11/11/2020	12/1/2020	12/1/2020	12/1/2020	12/1/2020	12/1/2020	12/2/2020	12/2/2020	12/2/2020	12/2/2020	12/3/2020	12/3/2020	12/3/2020	12/3/2020	12/3/2020
				Sample	SED-42P2-12-24	SED-42P2-24-36	SED-43P2-0-6	SED-43P2-6-12	SED-44P2-0-6	SED-44P2-6-12	SED-44P2-12-18	SED-45P2-0-6	SED-45P2-6-12	SED-46P2-0-6	SED-46P2-6-12	SED-47P2-0-6	SED-47P2-6-12	SED-48P2-0-6	SED-48P2-6-12	SED-48P2-12-18
Group	Analyte	RUSL	IUSL	Units																
Radiological	Technetium-99	19	89400	pCi/g	0.0327 #	0 ##	0.226 #	0.00633 #	**9.42**	**4.33**	0 ##	0 ##	0 ##	0 ##	0.110 #	0 ##	0 ##	0 ##	0 ##	0 ##
Radiological	Uranium-233/234	13	3310	pCi/g	**3.19**	**1.57**	**5.13**	**16.0**	**435**	**34.0**	**3.34**	**6.00**	**2.95**	**11.6**	**10.4**	**3.32**	**4.86**	**2.49**	**2.11**	**1.63**
Radiological	Uranium-235/236	8	39	pCi/g	0.135 #	0.0342 #	0.211 #	**0.873**	**24.3**	**1.57**	0.0293 #	**0.325**	0.0545 #	0.251 #	**0.419**	0.0528 #	0.0999 #	0.154 #	**0.169**	**0.205**
Radiological	Uranium-238	14	179	pCi/g	**1.50**	**1.58**	**1.87**	**4.50**	**98.7**	**8.74**	**2.70**	**1.92**	**1.48**	**2.85**	**3.55**	**1.95**	**2.41**	**2.24**	**1.77**	**1.85**
Chemical	Ammonia			mg/kg	**593**	**807**	**312**	**499**	**1070**	**580**	**299**	**1520**	**240**	**1980**	**863**	**1200**	**1670**	**491**	**112**	**57.4**
Chemical	Fluoride			mg/kg	**2.21 J**	**2.03 J**	**2.67 J**	**9.10**	**32.3**	**19.3**	**15.3**	**103**	< 3.96	**120**	**20.6**	**6.37**	**16.5**	**1.86 J**	**3.09**	**1.88**
Chemical	Solids			%	**32**	**27.8**	**14.3**	**11**	**6.76**	**13.8**	**27.7**	**12.9**	**20.9**	**9.45**	**18.1**	**21.1**	**12.1**	**15.6**	**59**	**66.8**
VOCs	1,1-Dichloroethene			ug/kg	< 21	< 23	< 41	< 56	< 100	< 47	< 6.2	< 49	< 28	< 74	< 36	< 33	< 54	< 35	< 7.7	< 7.1
VOCs	1,2-Dichloroethane			ug/kg	< 21	< 23	< 41	< 56	< 100	< 47	< 6.2	< 49	< 28	< 74	< 36	< 33	< 54	< 35	< 7.7	< 7.1
VOCs	cis-1,2-Dichloroethene			ug/kg	< 21	< 23	< 41	< 56	< 100	< 47	< 6.2	< 49	< 28	< 74	< 36	< 33	< 54	< 35	< 7.7	< 7.1
VOCs	Tetrachloroethene			ug/kg	< 21	< 23	< 41	< 56	< 100	< 47	< 6.2	< 49	< 28	< 74	< 36	< 33	< 54	< 35	< 7.7	< 7.1
VOCs	trans-1,2-Dichloroethene			ug/kg	< 21	< 23	< 41	< 56	< 100	< 47	< 6.2	< 49	< 28	< 74	< 36	< 33	< 54	< 35	< 7.7	< 7.1
VOCs	Trichloroethene			ug/kg	< 21	< 23	< 41	< 56	< 100	< 47	< 6.2	< 49	< 28	< 74	< 36	< 33	< 54	< 35	< 7.7	< 7.1
VOCs	Vinyl chloride			ug/kg	< 21	< 23	< 41	< 56	< 100	< 47	< 6.2	< 49	< 28	< 74	< 36	< 33	< 54	< 35	< 7.7	< 7.1

Sediment Sampling Analytical Results
Westinghouse Columbia Fuel Fabrication Facility
Hopkins, SC

				Location	SED-49	SED-49	SED-50	SED-50	SED-50	SED-57	SED-57	SED-57	SED-58	SED-58	SED-59	SED-59	SED-60	SED-60	SED-61
				Depth	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	12 - 24 in	0 - 6 in	6 - 12 in	12 - 18 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in
				Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Date	12/3/2020	12/3/2020	12/3/2020	12/3/2020	12/3/2020	12/4/2020	12/4/2020	12/4/2020	12/4/2020	12/4/2020	12/3/2020	12/3/2020	11/18/2020	11/18/2020	11/18/2020
				Sample	SED-49P2-0-6	SED-49P2-6-12	SED-50P2-0-6	SED-50P2-6-12	SED-50P2-12-24	SED-57P2-0-6	SED-57P2-6-12	SED-57P2-12-18	SED-58P2-0-6	SED-58P2-6-12	SED-59P2-0-6	SED-59P2-6-12	SED-60P2-0-6	SED-60P2-6-12	SED-61P2-0-6
Group	Analyte	RUSL	IUSL	Units															
Radiological	Technetium-99	19	89400	pCi/g	0 ##	0 ##	0 ##	0 ##	0 ##	NA	NA	NA	NA	NA	NA	NA	0.433 #	0.483 #	**1.20**
Radiological	Uranium-233/234	13	3310	pCi/g	**5.10**	**2.85**	**6.83**	**2.33**	**1.00**	**2.22**	**1.63**	**1.49**	**1.21**	**1.38**	**2.09**	**1.52**	**39.7**	**44.4**	**4.29**
Radiological	Uranium-235/236	8	39	pCi/g	**0.142**	0.0436 #	**0.351**	0.152 #	**0.139**	0.110 #	0.101 #	0 #	0.0516 #	0.0321 #	0.0517 #	0.0494 #	**2.19**	**1.81**	0.244 #
Radiological	Uranium-238	14	179	pCi/g	**2.25**	**2.04**	**2.65**	**1.83**	**0.808**	**1.82**	**1.74**	**2.05**	**1.37**	**1.15**	**1.88**	**1.27**	**7.42**	**8.17**	**0.818**
Chemical	Ammonia			mg/kg	**378**	**280**	**1130**	**382**	**257**	NA	NA	NA	NA	NA	NA	NA	**45.7**	**57.3**	**14.1**
Chemical	Fluoride			mg/kg	**9.14**	**5.78**	**7.00**	**2.92**	**2.51 J**	NA	NA	NA	NA	NA	NA	NA	**19.2**	**14.1**	**3.47**
Chemical	Solids			%	**17.9**	**35.3**	**15**	**27.2**	**26.2**	NA	NA	NA	NA	NA	NA	NA	**82**	**83.7**	**79.9**
VOCs	1,1-Dichloroethene			ug/kg	< 40	< 16	< 46	< 21	< 25	NA	NA	NA	NA	NA	NA	NA	< 4.9	< 5.1	< 5.6
VOCs	1,2-Dichloroethane			ug/kg	< 40	< 16	< 46	< 21	< 25	NA	NA	NA	NA	NA	NA	NA	< 4.9	< 5.1	< 5.6
VOCs	cis-1,2-Dichloroethene			ug/kg	< 40	< 16	< 46	< 21	< 25	NA	NA	NA	NA	NA	NA	NA	< 4.9	< 5.1	< 5.6
VOCs	Tetrachloroethene			ug/kg	< 40	< 16	< 46	< 21	< 25	NA	NA	NA	NA	NA	NA	NA	< 4.9	< 5.1	< 5.6
VOCs	trans-1,2-Dichloroethene			ug/kg	< 40	< 16	< 46	< 21	< 25	NA	NA	NA	NA	NA	NA	NA	< 4.9	< 5.1	< 5.6
VOCs	Trichloroethene			ug/kg	< 40	< 16	< 46	< 21	< 25	NA	NA	NA	NA	NA	NA	NA	< 4.9	< 5.1	< 5.6
VOCs	Vinyl chloride			ug/kg	< 40	< 16	< 46	< 21	< 25	NA	NA	NA	NA	NA	NA	NA	< 4.9	< 5.1	< 5.6

Sediment Sampling Analytical Results
Westinghouse Columbia Fuel Fabrication Facility
Hopkins, SC

				Location	SED-61	SED-61	SED-61	SED-62	SED-62	SED-62	SED-62	SED-63	SED-63	SED-64	SED-64	SED-65	SED-65
				Depth	0 - 6 in	6 - 12 in	12 - 18 in	0 - 6 in	6 - 12 in	6 - 12 in	12 - 24 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in
				Type	FD	N	N	N	N	FD	N	N	N	N	N	N	N
				Date	11/18/2020	11/18/2020	11/18/2020	11/17/2020	11/17/2020	11/17/2020	11/17/2020	11/17/2020	11/17/2020	11/17/2020	11/17/2020	11/16/2020	11/16/2020
				Sample	SED-61P2-0-6-DUP	SED-61P2-6-12	SED-61P2-12-18	SED-62P2-0-6	SED-62P2-6-12	SED-62P2-6-12-DUP	SED-62P2-12-24	SED-63P2-0-6	SED-63P2-6-12	SED-64P2-0-6	SED-64P2-6-12	SED-65P2-0-6	SED-65P2-6-12
Group	Analyte	RUSL	IUSL	Units													
Radiological	Technetium-99	19	89400	pCi/g	**1.12**	**7.96**	**8.28**	**22.9**	**2.89**	**2.98**	**1.08**	**25.0**	**2.63**	**85.8**	**5.53**	**312**	**8.41**
Radiological	Uranium-233/234	13	3310	pCi/g	**15.1**	**9.17**	**3.86**	**1.21**	**1.57**	**1.60**	**1.84**	**0.853**	**0.760**	**1.30**	**1.11**	**1.01**	**1.12**
Radiological	Uranium-235/236	8	39	pCi/g	**0.789**	**0.267**	**0.186**	0.167 #	0.0659 #	0.0636 #	0 ##	0.148 #	0.0985 #	0.0856 #	0.0301 #	0.113 #	0 ##
Radiological	Uranium-238	14	179	pCi/g	**3.50**	**2.79**	**1.95**	**1.73**	**2.00**	**1.35**	**1.12**	**0.875**	**0.649**	**1.18**	**1.32**	**0.726**	**0.791**
Chemical	Ammonia			mg/kg	**9.39**	**17.0**	**30.2**	**160**	**218**	**159**	**240**	**218**	**126**	**311**	**283**	**156**	**276**
Chemical	Fluoride			mg/kg	**3.04**	**5.29**	**15.2**	**45.7**	**43.5**	**34.4**	**39.0**	**37.7**	**24.9**	**49.4**	**33.7**	**40.6**	**33.6**
Chemical	Solids			%	**75.5**	**88.2**	**85.8**	**44.9**	**76.7**	**76.1**	**77.9**	**71.1**	**78**	**68.1**	**78.9**	**72.2**	**78.2**
VOCs	1,1-Dichloroethene			ug/kg	< 5.7	< 5	< 4.4	< 8.9	< 5	< 5.1	< 5.2	< 5.6	< 5	< 6.6	< 4.8	< 5.4	< 4.6
VOCs	1,2-Dichloroethane			ug/kg	< 5.7	< 5	< 4.4	< 8.9	< 5	< 5.1	< 5.2	< 5.6	< 5	< 6.6	< 4.8	< 5.4	< 4.6
VOCs	cis-1,2-Dichloroethene			ug/kg	< 5.7	< 5	< 4.4	< 8.9	< 5	< 5.1	< 5.2	< 5.6	< 5	< 6.6	< 4.8	< 5.4	< 4.6
VOCs	Tetrachloroethene			ug/kg	< 5.7	< 5	< 4.4	< 8.9	< 5	< 5.1	< 5.2	< 5.6	< 5	< 6.6	< 4.8	< 5.4	< 4.6
VOCs	trans-1,2-Dichloroethene			ug/kg	< 5.7	< 5	< 4.4	< 8.9	< 5	< 5.1	< 5.2	< 5.6	< 5	< 6.6	< 4.8	< 5.4	< 4.6
VOCs	Trichloroethene			ug/kg	< 5.7	< 5	< 4.4	< 8.9	< 5	< 5.1	< 5.2	< 5.6	< 5	< 6.6	< 4.8	< 5.4	< 4.6
VOCs	Vinyl chloride			ug/kg	< 5.7	< 5	< 4.4	< 8.9	< 5	< 5.1	< 5.2	< 5.6	< 5	< 6.6	< 4.8	< 5.4	< 4.6



Legend

- Proposed Sediment Sample Location
- Proposed Staff Gauge Location
- Sediment Sample Transect
- Ditch
- Culvert
- Mill Creek Flow Direction
- Dike Location
- Mill Creek
- Property Line
- 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 1
- WL2 West Lagoon 2

0 350 700 Feet

1:8,400

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

Datum: North American 1983

AECOM
101 Research Drive
Columbia, SC 29203
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Sediment Assesment Map

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60595649	CCS	August 2020	**FIGURE 11**

Path: M:\EnvDataViz\Westinghouse\mxd\2020 Revised Phase II WP\fig_11_SedimentSamplingLocations.mxd

Attachment B

Laboratory Search Excerpts
Extent of Condition at Groundwater Boring L-22

Library Search

Client: **Westinghouse Electric Company** Laboratory ID: **VK19098-003**

Description: **L-22-8-12** Matrix: **Aqueous**

Date Sampled: **11/19/2020 0951** Project Name: **CVOC**

Date Received: **11/19/2020** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/23/2020 1526	ECB		75445

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Ethylbenzene		**8260D**	**23**			**ug/L**	**1**
Benzene, 2-propenyl-		**8260D**	**25**			**ug/L**	**1**
Benzene, 4-ethyl-1,2-dimethyl-		**8260D**	**35**			**ug/L**	**1**
Benzene, 1-ethenyl-3-ethyl-		**8260D**	**21**			**ug/L**	**1**
Benzene, 1,2,4,5-tetramethyl-		**8260D**	**20**			**ug/L**	**1**
Unknown		**8260D**	**58**			**ug/L**	**1**
Naphthalene, 1,2,3,4-tetrahydro-		**8260D**	**25**			**ug/L**	**1**
Naphthalene		**8260D**	**80**			**ug/L**	**1**
Naphthalene, 2-methyl-		**8260D**	**49**			**ug/L**	**1**
Naphthalene, 1-methyl-		**8260D**	**37**			**ug/L**	**1**

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

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Library Search

Client: **Westinghouse Electric Company** Laboratory ID: **VK19098-005**

Description: **L-22-8-12-DUP** Matrix: **Aqueous**

Date Sampled: **11/19/2020 0951** Project Name: **CVOC**

Date Received: **11/19/2020** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/23/2020 1550	ECB		75445

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Ethylbenzene		**8260D**	**24**			**ug/L**	**1**
Benzene, 2-propenyl-		**8260D**	**26**			**ug/L**	**1**
Benzene, 1-ethyl-2,3-dimethyl-		**8260D**	**36**			**ug/L**	**1**
Benzene, 1-ethenyl-3-ethyl-		**8260D**	**22**			**ug/L**	**1**
Benzene, 1,2,3,5-tetramethyl-		**8260D**	**20**			**ug/L**	**1**
Benzene, 1,2,4,5-tetramethyl-		**8260D**	**60**			**ug/L**	**1**
Naphthalene, 1,2,3,4-tetrahydro-		**8260D**	**26**			**ug/L**	**1**
Naphthalene		**8260D**	**84**			**ug/L**	**1**
Naphthalene, 2-methyl-		**8260D**	**57**			**ug/L**	**1**
Naphthalene, 1-methyl-		**8260D**	**45**			**ug/L**	**1**

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Library Search

Client: **Westinghouse Electric Company** Laboratory ID: **VK19098-002**

Description: **L-22-26-30** Matrix: **Aqueous**

Date Sampled: **11/18/2020 1649** Project Name: **CVOC**

Date Received: **11/19/2020** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1				79578

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
None Detected		**8260D**				**ug/L**	**1**

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

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Library Search

Client: **Westinghouse Electric Company** Laboratory ID: **VK21049-001**

Description: **L-23-12-16** Matrix: **Aqueous**

Date Sampled: **11/20/2020 1001** Project Name: **CVOC**

Date Received: **11/20/2020** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1				79578

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
None Detected		**8260D**				**ug/L**	**1**

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

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Library Search

Client: **Westinghouse Electric Company** Laboratory ID: **VK19098-007**

Description: **L-23-20-24** Matrix: **Aqueous**

Date Sampled: **11/19/2020 1633** Project Name: **CVOC**

Date Received: **11/19/2020** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1				79578

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
None Detected		**8260D**				**ug/L**	**1**

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

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Library Search

Client: **Westinghouse Electric Company** Laboratory ID: **VK19098-006**

Description: **L-23-31-35** Matrix: **Aqueous**

Date Sampled: **11/19/2020 1512** Project Name: **CVOC**

Date Received: **11/19/2020** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/23/2020 1613	PAP		79578

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Naphthalene, 2,3-dimethyl-		**8260D**	**5.0**			**ug/L**	**1**

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

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Library Search

Client: **Westinghouse Electric Company** Laboratory ID: **VJ20054-006**

Description: **W-19B-2020-Q4** Matrix: **Aqueous**

Date Sampled: **10/20/2020 1210** Project Name: **Westinghouse RI**

Date Received: **10/20/2020** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1				79578

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
None Detected		**8260D**				**ug/L**	**1**

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

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Client: **Westinghouse Electric Company** Laboratory ID: **VJ13033-003**

Description: **W-35-2020-Q4** Matrix: **Aqueous**

Date Sampled: **10/13/2020 1422** Project Name: **Westinghouse RI**

Date Received: **10/13/2020** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1				79578

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
None Detected		**8260D**				**ug/L**	**1**

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

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Client: **Westinghouse Electric Company** Laboratory ID: **VJ22061-004**

Description: **W-39-2020-Q4** Matrix: **Aqueous**

Date Sampled: **10/22/2020 0906** Project Name: **Westinghouse RI**

Date Received: **10/22/2020** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1				79578

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
None Detected		**8260D**				**ug/L**	**1**

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

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Client: **Westinghouse Electric Company** Laboratory ID: **VJ22061-005**

Description: **W-43-2020-Q4** Matrix: **Aqueous**

Date Sampled: **10/22/2020 1040** Project Name: **Westinghouse RI**

Date Received: **10/22/2020** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1				79578

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
None Detected		**8260D**				**ug/L**	**1**

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

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Client: **Westinghouse Electric Company** Laboratory ID: **VJ22061-001**

Description: **W-65-2020-Q4** Matrix: **Aqueous**

Date Sampled: **10/22/2020 1038** Project Name: **Westinghouse RI**

Date Received: **10/22/2020** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1				79578

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
None Detected		**8260D**				**ug/L**	**1**

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

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Client: **Westinghouse Electric Company** Laboratory ID: **VJ22061-002**

Description: **W-66-2020-Q4** Matrix: **Aqueous**

Date Sampled: **10/22/2020 1211** Project Name: **Westinghouse RI**

Date Received: **10/22/2020** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1				79578

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
None Detected		**8260D**				**ug/L**	**1**

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

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Client: **Westinghouse Electric Company** Laboratory ID: **VJ19024-003**

Description: **W-67-2020-Q4** Matrix: **Aqueous**

Date Sampled: **10/19/2020 1029** Project Name: **Westinghouse RI**

Date Received: **10/19/2020** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1				79578

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
None Detected		**8260D**				**ug/L**	**1**

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

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Attachment C

Updates to the Final Interim RI Report Tables and Figures

Tables (1-8)
Figures (Figures 1-17)
Appendix A, Laboratory Analytical Data Tables

Table 1 - Summary of Well Construction Details and Groundwater Elevations
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well	Well Diameter (in)	Date Measured	Total Depth (ft bgs)	Screen Length (ft)	Ground Surface Elevation (ft)	Top of Casing Elevation (ft)	Screen Interval (ft bgs)	Screen Interval Elevation (ft bgs)	Depth to Water (ft)	Groundwater Elevation (ft)
WRW-1	4	10/14/19	32.20	10	136.00	136.95	22.2-32.2	113.8-103.8	9.64	127.31
WRW-2	4	10/14/19	28.43	10	136.98	139.93	19-29.2	118.55-108.55	18.62	121.31
W-3A	2	10/14/19	82.86	10	117.64	120.08	72.5-82.5	44.8-34.8	8.79	111.29
W-4	4	10/14/19	15.01	2	116.50	116.09	10-12	103.5-101.5	10.38	105.71
W-6	2	10/14/19	27.78	5	136.96	136.46	23.5-28.5	114.2-109.2	11.22	125.24
W-7A	2	10/14/19	17.92	5	132.94	135.06	13-18	120-115	12.35	122.71
W-10	2	10/14/19	22.30	5	136.89	136.81	18.5-23.5	119.6-114.6	16.50	120.31
W-11	2	10/14/19	24.90	3	138.45	140.76	25.5-28.5	116.55-113.55	19.02	121.74
W-13R	2	10/14/19	20.52	5	136.38	136.13	15-20	120.9-115.9	12.96	123.17
W-14	2	10/14/19	28.91	5	136.22	137.83	23.5-28.5	112.3-107.3	17.62	120.21
W-15	2	10/14/19	20.66	5	126.67	127.90	13.5-18.5	111-106	12.90	115.00
W-16	2	10/14/19	13.23	3	125.64	124.93	15.5-18.5	115.4-112.4	3.71	121.22
W-17	2	10/14/19	27.92	5	137.57	139.27	23.5-28	114.65-109.65	14.56	124.71
W-18R	2	10/14/19	27.63	5	137.15	136.71	12.5-17.5	114.5-109.5	12.20	124.51
W-19B	4	10/14/19	40.73	10	140.58	142.85	30-40.5	109.85-99.85	25.17	117.68
W-20	2	10/14/19	15.66	5	113.27	116.16	11.5-16.3	102.6-97.6	10.60	105.56
W-22	2	10/14/19	15.10	5	137.08	136.51	13.4-17.8	127-122	11.68	124.83
W-23R	2	10/14/19	20.93	5	137.45	140.47	15.5-20.5	121.5-116.5	19.19	121.28
W-24	2	10/14/19	15.00	5	139.83	141.94	10.1-15.1	129.85-124.85	11.78	130.16
W-25	2	10/14/19	27.25	5	114.98	115.88	22.9-27.7	92.75-87.75	10.95	104.93
W-26	2	10/14/19	30.64	5	140.59	142.21	25.5-30.5	114.95-109.95	26.37	115.84
W-27	2	10/14/19	14.72	5	120.22	121.87	14.1-18.9	110.5-105.5	11.28	110.59
W-28	2	10/14/19	15.30	5	136.98	138.88	9.8-14.7	126.7-121.7	12.60	126.28
W-29	2	10/14/19	13.95	5	136.96	138.61	10-15.1	128-123	12.41	126.20
W-30	2	10/14/19	14.86	5	136.87	138.81	10.2-15.2	127-122	12.65	126.16
W-32	2	10/14/19	21.75	5	138.33	140.61	17-22.5	121.6-116.6	19.59	121.02
W-33	2	10/14/19	22.88	5	138.06	139.33	15.1-20.7	120.2-115.2	15.85	123.48
W-35	2	10/14/19	20.35	5	136.59	139.07	16-21	121.25-116.25	11.78	127.29
W-36	2	10/14/19	19.77	5	134.16	136.29	15-20	119.4-114.4	8.66	127.63
W-37	2	10/14/19	20.46	5	136.58	139.04	15.5-20.5	121.1-116.1	12.05	126.99
W-38	2	10/14/19	20.16	5	136.71	136.51	15-20	121.55-116.55	10.45	126.06
W-39	2	10/14/19	23.17	10	139.08	141.15	12-22	125.9-115.9	16.25	124.90
W-40	2	10/14/19	14.39	10	136.42	139.26	5-15	132.05-122.05	11.95	127.31
W-41R	2	10/14/19	24.33	10	131.02	133.81	14-24	116.7-106.7	15.94	117.87
W-42	2	10/14/19	29.91	10	137.83	140.96	20-30	117.9-107.9	26.32	114.64
W-43	2	10/14/19	21.12	10	138.09	141.33	10.5-20.5	126.95-116.95	15.65	125.68
W-44	2	10/14/19	27.04	10	131.93	134.86	16-26	114.9-104.9	18.42	116.44
W-45	2	10/14/19	15.38	10	137.20	140.02	6-16	131.8-121.8	12.85	127.17
W-46	4	10/14/19	25.84	10	132.39	134.74	15.5-25.5	116.55-106.55	14.02	120.72
W-47	4	10/14/19	45.60	10	140.70	141.90	34.3-44.8	105.1-95.1	26.99	114.91
W-48	4	10/14/19	41.30	10	139.74	142.56	30.7-41.3	108.45-98.45	27.21	115.35
W-49	2	10/14/19	117.77	10	137.82	140.25	105-115	30.05-20.05	31.07	109.18
W-50	2	10/14/19	125.41	10	136.79	139.58	114.5-124.5	21.4-11.4	25.27	114.31
W-51	2	10/14/19	14.66	5	136.67	136.51	10-15	127-122	9.27	127.24
W-52	2	10/14/19	15.55	5	136.71	136.19	10-15	126.15-116.15	9.15	127.04
W-53	2	10/14/19	15.74	5	136.83	136.54	10-15	126.1-121.1	9.42	127.12
W-54	2	10/14/19	15.85	5	136.79	136.52	10-15	125.95-120.95	9.53	126.99
W-55	2	10/14/19	15.24	5	136.90	136.63	10-15	126.65-121.65	9.72	126.91

Table 1 - Summary of Well Construction Details and Groundwater Elevations
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well	Well Diameter (in)	Date Measured	Total Depth (ft bgs)	Screen Length (ft)	Ground Surface Elevation (ft)	Top of Casing Elevation (ft)	Screen Interval (ft bgs)	Screen Interval Elevation (ft bgs)	Depth to Water (ft)	Groundwater Elevation (ft)
W-56	2	10/14/19	15.11	5	136.83	136.68	10-15	126.7-121.7	9.75	126.93
W-57	2	10/14/19	15.11	5	136.90	136.73	10-15	126.8-121.8	9.97	126.76
W-58	2	10/14/19	15.49	5	136.85	136.37	10-15	126.35-121.35	10.63	125.74
W-59	2	10/14/19	14.65	5	136.10	136.42	10-15	126.45-121.45	10.77	125.65
W-60	2	10/14/19	37.86	5	137.25	140.20	32-37	104.4-99.4	22.12	118.08
W-61	2	10/14/19	23.51	10	137.34	140.60	13-23	123.85-113.85	18.96	121.64
W-62	2	10/14/19	24.85	5	125.63	128.38	19-24	105.8-100.8	13.59	114.79
W-63	2	10/14/19	41.91	5	138.78	141.02	37-42	101.85-96.85	27.31	113.71
W-64	2	10/14/19	31.61	10	140.15	142.75	21-31	118.55-108.55	27.25	115.50
W-65	2	10/14/19	31.59	5	138.17	140.95	26.5-31.5	111.6-106.6	14.07	126.88
W-66	2	10/14/19	22.34	10	138.01	140.91	12-22	125.65-115.65	13.72	127.19
W-67	2	10/14/19	31.81	10	132.60	135.26	21-31	110.8-100.8	19.54	115.72
W-68	2	10/14/19	18.14	5	113.40	116.53	13-18	100.25-95.25	7.90	108.63
W-69	2	10/14/19	18.08	10	137.67	140.64	7.75-17.75	129.6-119.6	9.75	130.89
W-70	2	10/14/19	48.92	5	138.02	141.00	44-49	94.10-89.1	14.88	126.12
W-71	2	10/14/19	103.03	10	137.96	140.72	93-103	44.9-34.9	25.98	114.74
W-72	2	10/14/19	15.00	10	136.81	136.29	5-15	131.8-121.8	9.24	127.05
W-73	2	10/14/19	16.09	10	136.85	136.45	5-15	130.75-120.75	9.61	126.84
W-74	2	10/14/19	30.60	5	136.64	139.93	25-30	111.05-106.05	13.46	126.47
W-75	2	10/14/19	15.33	10	136.60	139.85	5-15	131.25-121.25	13.06	126.79
W-76	2	10/14/19	15.12	10	137.04	136.85	5-15	131.9-121.9	9.78	127.07
W-77	2	10/14/19	15.67	10	136.85	136.53	5-15	131.2-121.2	9.98	126.55
W-78	2	10/14/19	15.57	10	136.75	136.31	5-15	131.2-121.2	10.05	126.26
W-79	2	10/14/19	15.66	10	136.49	136.12	5-15	130.85-120.85	9.06	127.06
W-80	2	10/14/19	15.62	10	136.34	135.87	5-15	130.7-120.7	11.08	124.79
W-81	2	10/14/19	15.74	10	136.81	136.43	5-15	131.1-121.1	12.02	124.41
W-82	2	10/14/19	15.69	10	136.57	136.23	5-15	130.1-120.1	12.72	123.51
W-83	2	10/14/19	26.46	10	136.22	135.81	15.5-25.5	119.75-109.75	13.95	121.86
W-84	2	10/14/19	21.05	10	136.66	135.99	10-20	125.6-115.6	8.45	127.54
W-85	2	10/14/19	44.77	5	135.74	138.69	39-44	95.95-90.95	22.01	116.68
W-86	2	10/14/19	35.09	10	135.68	138.77	24-34	110.6-100.6	20.59	118.18
W-87	2	10/14/19	33.17	5	136.66	136.39	27-32	108.5-103.5	8.93	127.46
W-88	2	10/14/19	41.37	5	140.06	143.10	36-41	103.7-98.7	23.42	119.68
W-89	2	10/14/19	25.46	10	140.12	142.82	15-25	124.65-104.65	22.10	120.72
W-90	2	10/14/19	39.90	5	140.23	143.33	35-40	105.35-100.35	27.38	115.95
W-91	2	10/14/19	25.05	10	139.57	142.81	15-25	124.5-114.5	27.56	115.25
W-92	2	10/14/19	33.67	5	120.11	123.33	29-34	91.45-86.45	17.77	105.56
W-93	2	10/14/19	35.38	5	136.87	136.49	30-35	106.5-101.5	10.42	126.07
W-94	2	10/14/19	29.40	5	115.28	118.04	24-29	90.9-85.9	12.14	105.90
W-95	2	10/14/19	33.41	5	113.53	116.40	28-33	85.15-80.15	10.71	105.69
W-96	2	10/14/19	30.03	5	113.65	116.46	25-30	88.6-83.6	11.08	105.38
W-97	2	10/14/19	18.91	5	113.92	116.93	13-18	100-95	7.43	109.50
Gator SG	-	10/14/19	-	-	-	120.31	-		0.85	117.16
Upper SG	-	10/14/19	-	-	-	112.41	-		0.60	109.01
Lower SG	-	10/14/19	-	-	-	112.39	-		0.26	108.65
Creek SG	-	10/14/19	-	-	-	109.05	-		0.64	105.69

Notes
in - inch
ft - feet
ft bgs - feet below ground surface
SG - staff gauge

Table 2 - Summary of Floodplain Vertical Groundwater Profiling Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well	L-1	L-1	L-1	L-1	L-1	L-1-DUP	L-8	L-8	L-8	L-8	L-9	L-9	L-9-DUP
			Depth	10 - 15 ft	28 - 33 ft	48 - 53 ft	63 - 68 ft	78 - 83 ft	78 - 83 ft	8 - 13 ft	17 - 22 ft	25 - 30 ft	41 - 46 ft	10 - 15 ft	23 - 28 ft	23 - 28 ft
			Date	8/14/2019	8/14/2019	8/14/2019	8/15/2019	8/15/2019	8/15/2019	8/20/2019	8/21/2019	8/21/2019	8/21/2019	8/21/2019	8/21/2019	8/21/2019
Group	Analyte	MCL	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chemical	Fluoride	4	mg/L	NA	NA	NA	NA	NA	NA	0.26	< 0.10	< 0.10	0.14	0.48	< 0.10	< 0.10
	Nitrate as N	10	mg/L	NA	NA	NA	NA	NA	NA	0.081	< 0.020	< 0.020	< 0.020	5.4	< 0.020	< 0.020
VOCs	1,1-Dichloroethene	7	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	70	ug/L	< 1.0	3.8	< 1.0	< 1.0	< 1.0	< 1.0	NA*	< 1.0	< 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	NA*	< 1.0	2.2	< 1.0	6.5	< 1.0	< 1.0
	trans-1,2-Dichloroethene	100	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloroethene	5	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA*	< 1.0	2.1	< 1.0	3.0	< 1.0	< 1.0
	Vinyl chloride	2	ug/L	< 1.0	2.7	< 1.0	< 1.0	< 1.0	< 1.0	NA*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 2 - Summary of Floodplain Vertical Groundwater Profiling Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well	L-9	L-10	L-10	L-10	L-17	L-17	L-18	L-18	L-19	L-19
			Depth	32 - 37 ft	9 - 14 ft	18 - 23 ft	28 - 33 ft	15 - 20 ft	25 - 30 ft	15 - 20 ft	24 - 29 ft	7 - 12 ft	21 - 26 ft
			Date	8/21/2019	8/19/2019	8/20/2019	8/20/2019	8/16/2019	8/16/2019	8/19/2019	8/19/2019	8/20/2019	8/20/2019
Group	Analyte	MCL	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chemical	Fluoride	4	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	NA	NA	NA	NA	7.8	0.16
	Nitrate as N	10	mg/L	< 0.020	1.1	0.18	0.19	NA	NA	NA	NA	0.092	0.10
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
	cis-1,2-Dichloroethene	70	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	6.2	5.4	< 1.0	1.2	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
	trans-1,2-Dichloroethene	100	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 1.0
	Trichloroethene	5	ug/L	< 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	1.1	< 1.0	< 1.0

Notes: MCL - Maximum Contaminant Level

mg/L - milligrams per liter

ug/L - micrograms per liter

Bold concentrations indicate detections

Concentrations in shaded cells exceed their MCL

NA - Not Analyzed

NA* - Not Analyzed due to an oversight by Sample Receiving at the lab not logging the VOC sample bottle in. As a result, the sample was not analyzed for VOCs.

Table 3 - Summary of October 2019 Groundwater Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well	W-RW1	W-RW2	W-3A	W-4	W-6	W-7A	W-10	W-10	W-11	W-13R	W-14	W-15	W-16	W-17	W-18R	W-19B	W-20	W-22	W-23R	W-24	W-25	W-26	W-27	W-28	W-29	W-30	W-32	W-33	W-33	W-35	W-36
			Date	10/3/2019	10/11/2019	10/10/2019	10/11/2019	10/7/2019	10/9/2019	10/9/2019	10/9/2019	10/8/2019	10/8/2019	10/18/2019	10/21/2019	10/21/2019	10/21/2019	10/7/2019	10/21/2019	10/15/2019	10/7/2019	10/18/2019	10/11/2019	10/16/2019	10/14/2019	10/10/2019	10/7/2019	10/7/2019	10/7/2019	10/8/2019	10/17/2019	10/17/2019	10/2/2019	10/2/2019
			Type	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N
Group	Analyte	MCL	Units																															
Radiological	Alpha particles	15**	pCi/L	2.51 #	2.00 #	2.36 #	3.36 #	9.09	6.35	3.19	2.19 #	7.82	2.15 #	4.27	0 ##	0.421 #	2.86 #	9.79 #	2.26 #	0.912 #	2.92 #	0 ##	0 ##	10.1	0.697 #	0 ##	3.14 #	2.25 #	7.57	7.17	2.89 #	2.51 #	0.793 #	0.270 #
Radiological	Beta particles	50**	pCi/L	3.98	11.9	1.15 #	19.4	1370	114	81.3	76.2	2450	53.2	35.6	174	10.6	538	150	0 ##	3.22 #	29.6	1.68 #	2.51 #	7.27	12.5	5.10	8.26	7.67	20.8	175	7.78	5.81	3.54 #	0 ##
Radiological	Technetium-99	900	pCi/L	1.40 #	23.1 #	7.25 #	41.3#	2440	210	118	121	3420	63.4	0 ##	253	0 ##	820	214	0 ##	0 ##	57.4	0 ##	13.0 #	0 ##	0 ##	2.42 #	20.1 #	11.6 #	49.7#	321	0 ##	0 ##	21.7 #	15.0 #
Radiological	Uranium-234		ug/L	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Radiological	Uranium-235		ug/L	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	0.035 J	< 0.070	< 0.070	0.0177 J	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	0.026 J	0.199	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070
Radiological	Uranium-238		ug/L	0.0815 J	0.0743 J	< 0.200	0.146 J	0.232	0.698	0.083 J	0.114 J	< 0.200	0.139 J	0.368	< 0.200	< 0.200	0.0855 J	4.06	< 0.200	< 0.200	0.854	< 0.200	< 0.200	0.295	< 0.200	< 0.200	0.429	2.03	8.71	0.224	< 0.200	< 0.200	< 0.200	< 0.200
Radiological	Total Uranium	30	ug/L	0.0815 J	0.0743 J	< 0.200	0.146 J	0.232	0.698	0.083 J	0.114 J	< 0.200	0.139 J	0.368	< 0.200	< 0.200	0.0855 J	4.10	< 0.200	< 0.200	0.872	< 0.200	< 0.200	0.295	< 0.200	< 0.200	0.429	2.05	8.91	0.224	< 0.200	< 0.200	< 0.200	< 0.200
Chemical	Fluoride	4	mg/L	0.055	0.099	0.015	4.86	0.126	6.47	3.32	3.25	0.021	8.11	0.079	1.88	9.5	2.22	6.34	0.019	0.077	5.52	0.017	0.025	0.126	1.42	3.97	5.45	4.8	8.06	3.66	0.152	0.136	0.025	0.007
Chemical	Nitrate as N	10	mg/L	2.1	20	< 0.020	0.023	210	390	37	37	56	18	0.061	35	3.2	16	770	3.8	< 0.020	100	0.71	< 0.020	0.067	3.2	< 0.020	6.3	11	120	170	13	13	3.2	0.11
Chemical	Ammonia		mg/L	0.0129	0.0581	0.0256	0.404	134	48.5	6.46	6.62	4.09	31.5	4.26	12.6	13.3	5.79	126	0.0146	0.0632	61.8	0.0154	0.0283	1.91	1.75	6.29	0.884	22.4	1.83	47.9	0.0134	0.0189	0.0075	0.0089
Metals	Antimony	6	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	4.52 J	3.64 J	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	4.02 J	< 20.0	< 20.0	< 20.0
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	< 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
VOCs	2-Butanone		ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Acetone		ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
VOCs	cis-1,2-Dichloroethene	70	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	2.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0	< 1.0	< 1.0	< 1.0
VOCs	Tetrachloroethene	5	ug/L	1.4	140	< 1.0	< 1.0	16	1.9	< 1.0	< 1.0	1.4	15	1.1	12	7.8	4.3	3.5	150	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.4	300	330	2.6	< 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	< 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
VOCs	Trichloroethene	5	ug/L	< 1.0	8.3	< 1.0	< 1.0	2.5	< 1.0	< 1.0	< 1.0	1.4	< 1.0	< 1.0	2.0	2.2	< 1.0	< 1.0	2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	38	24	< 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	< 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

Table 3 - Summary of October 2019 Groundwater Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well	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-48	W-49	W-49	W-50	W-51	W-52	W-53	W-54	W-54	W-55	W-56	W-57	W-58	W-59	W-60	W-61	W-62	W-63	W-64
			Date	10/2/2019	10/4/2019	10/18/2019	10/15/2019	10/14/2019	10/22/2019	10/18/2019	10/14/2019	10/2/2019	10/21/2019	10/17/2019	10/21/2019	10/21/2019	10/24/2019	10/24/2019	10/15/2019	10/3/2019	10/3/2019	10/3/2019	10/4/2019	10/4/2019	10/4/2019	10/4/2019	10/4/2019	10/3/2019	10/4/2019	10/5/2019	10/17/2019	10/17/2019	10/22/2019	10/21/2019	10/17/2019
			Type	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	FD	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N
Group	Analyte	MCL	Units																														
Radiological	Alpha particles	15**	pCi/L	1.75 #	2.54 #	1.22 #	0.796 #	8.93	0.753 #	0.159 #	3.47 #	4.37	0.656 #	1.60 #	0.460 #	0 ##	0.196 #	1.80 #	3.48 #	0.544 #	0 ##	1.61 #	1.55 #	1.53 #	438	264	0.202 #	4.21	44.4	0.200 #	1.31 #	0 ##	1.22 #	4.11 #
Radiological	Beta particles	50**	pCi/L	0 ##	2.43 #	8.84	3.44 #	14.3	3.16 #	3.16 #	0.283 #	16.6	40.4	61.6	9.32	7.64	4.34 #	0.719 #	0.0720 #	3.56	1.61 #	1.72 #	1.96 #	0.741 #	77.3	54.5	3.09 #	2.43 #	17.4	1.38 #	0.862 #	4.85	3.32 #	70.3
Radiological	Technetium-99	900	pCi/L	0 ##	0 ##	0.726 #	0 ##	0 ##	5.77 #	0 ##	0 ##	4.99 #	62.8	94.2	13.1 #	14.9 #	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	13.0 #	0 ##	0 ##	0 ##	0 ##	81.9
Radiological	Uranium-234		ug/L	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.052	0.034 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Radiological	Uranium-235		ug/L	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	0.0216 J	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	5.79	4.19	< 0.070	0.049 J	0.659	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070
Radiological	Uranium-238		ug/L	0.0936 J	0.183 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.983	< 0.200	< 0.200	< 0.200	< 0.200	0.0695 J	0.0865 J	0.101 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	177	130	0.207	1.67	21.6	< 0.200	< 0.200	< 0.200	0.123 J	< 0.200
Radiological	Total Uranium	30	ug/L	0.0936 J	0.183 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	1.00	< 0.200	< 0.200	< 0.200	< 0.200	0.0695 J	0.0865 J	0.101 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	183	134	0.207	1.72	22.2	< 0.200	< 0.200	< 0.200	0.123 J	< 0.200
Chemical	Fluoride	4	mg/L	0.02	0.176	0.024	0.166	0.03	1.99	0.111	0.023	0.633	0.033	4.45	0.33	0.321	0.003	0.053	0.035	0.215	1.39	0.081	0.258	0.26	0.062	0.257	0.057	0.18	4.18	0.034	0.036	0.019	0.259	4.27
Chemical	Nitrate as N	10	mg/L	3.5	4.3	73	4.3	65	4.7	6.3	2.4	0.093	7.8	42	5.3	4.9	< 0.020	< 0.020	< 0.020	0.11	1.3	0.57	2.8	2.8	3.7	4.2	4.6	9.7	14	0.035	2.5	4.0	0.34	42
Chemical	Ammonia		mg/L	0.0088	0.0141	0.0218	0.0203	0.0299	0.806	0.0198	0.0186	2.08	0.0129	16.5	0.0446	0.0422	0.0151	0.0097	0.0185	0.256	0.0212	0.0397	0.0037	0.0125	0.0108	0.009	0.0155	18.6	12.3	0.0251	0.0274	0.0162	0.023	16
Metals	Antimony	6	ug/L	3.87 J	4.6 J	8.79 J	8.02 J	6.21 J	< 20.0	3.76 J	< 20.0	8.1 J	< 20.0	5.33 J	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	7.32 J	< 20.0	4.12 J	< 20.0	< 20.0	7.39 J	4.3 J	7.38 J	4.22 J	< 20.0	5.44 J	< 20.0	< 20.0	8.91 J
VOCs	1,1-Dichloroethene	7	ug/L	< 1.0	< 1.0	< 5.0	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	2-Butanone		ug/L	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Acetone		ug/L	< 20	< 20	< 100	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
VOCs	cis-1,2-Dichloroethene	70	ug/L	< 1.0	< 1.0	13	< 1.0	4.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.1	2.0	< 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
VOCs	Tetrachloroethene	5	ug/L	< 1.0	1.8	290	< 1.0	190	< 1.0	< 1.0	< 1.0	< 1.0	2.5	1.6	200	200	< 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	42	1.0	1.3
VOCs	trans-1,2-Dichloroethene	100	ug/L	< 1.0	< 1.0	< 5.0	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Trichloroethene	5	ug/L	< 1.0	11	5.2	< 1.0	14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.9	4.7	< 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	1.1	< 1.0
VOCs	Vinyl chloride	2	ug/L	< 1.0	< 1.0	< 5.0	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 3 - Summary of October 2019 Groundwater Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well	W-65	W-66	W-67	W-68	W-69	W-70	W-71	W-72	W-73	W-74	W-75	W-76	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	W-96
			Date	10/17/2019	10/17/2019	10/18/2019	10/22/2019	10/23/2019	10/23/2019	10/23/2019	10/4/2019	10/4/2019	10/9/2019	10/9/2019	10/5/2019	10/6/2019	10/5/2019	10/7/2019	10/6/2019	10/8/2019	10/8/2019	10/8/2019	10/8/2019	10/23/2019	10/23/2019	10/2/2019	10/22/2019	10/22/2019	10/22/2019	10/10/2019	10/6/2019	10/15/2019	10/15/2019	10/11/2019
			Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Group	Analyte	MCL	Units																														
Radiological	Alpha particles	15**	pCi/L	1.22 #	0 ##	0.945 #	0.922 #	2.31 #	0.0198 #	0.983 #	1.05 #	0.241 #	0 ##	2.10 #	2.77 #	865	0 ##	2.99 #	1.30 #	0 ##	1.37 #	0.300 #	0 ##	1.42 #	0.317 #	1.68 #	2.50 #	0.498 #	0.889 #	1.58 #	3.06	1.14 #	0.695 #	2.51 #
Radiological	Beta particles	50**	pCi/L	7.14	3.33 #	65.3	2.33 #	1.94 #	1.37 #	8.11	2.74 #	1.85 #	1.29 #	3.89 #	6.88	111	4.12 #	5.90	7.29	1.23 #	4.82	2.75 #	3.97 #	1.23 #	7.12	4.92	2.05 #	0 ##	23.1	3.78 #	8.18	2.48 #	0.814 #	4.36
Radiological	Technetium-99	900	pCi/L	0 ##	0 ##	84.3	0 ##	0 ##	21.4 #	12.2 #	0 ##	0 ##	11.5 #	0 ##	0 ##	101	0 ##	3.52 #	2.56 #	0 ##	0 ##	0.914 #	0 ##	19.3 #	8.88 #	0.787 #	6.34 #	27.5 #	6.68 #	0 ##	0 ##	20.4 #	2.35 #	0 ##
Radiological	Uranium-234		ug/L	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.089	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Radiological	Uranium-235		ug/L	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	0.0308 J	10.1	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070
Radiological	Uranium-238		ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.165 J	0.095 J	0.0831 J	< 0.200	< 0.200	0.915	237	0.0933 J	0.0892 J	0.151 J	0.0728 J	0.151 J	< 0.200	0.0704 J	< 0.200	< 0.200	0.457	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.114 J	< 0.200
Radiological	Total Uranium	30	ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.165 J	0.095 J	0.0831 J	< 0.200	< 0.200	0.946	247	0.0933 J	0.0892 J	0.151 J	0.0728 J	0.151 J	< 0.200	0.0704 J	< 0.200	< 0.200	0.457	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.114 J	< 0.200
Chemical	Fluoride	4	mg/L	0.783	0.076	0.01	0.02	0.022	< 0.100	0.084	0.116	0.071	0.019	0.109	1.45	9.21	13.4	2.4	1.57	0.042	0.046	0.079	0.087	0.23	0.511	0.278	0.012	0.011	0.039	0.099	0.043	0.043	0.077	0.111
Chemical	Nitrate as N	10	mg/L	0.64	1.5	14	3.0	0.16	1.4	0.021	1.5	2.0	4.9	0.063	9.8	12	3.5	4.0	8.3	3.1	0.99	0.76	< 0.020	0.039	< 0.020	0.055	4.5	2.5	2.3	0.029	5.3	< 0.020	0.024	0.054
Chemical	Ammonia		mg/L	0.0489	0.0336	1.31	0.0143	0.0341	0.0077	0.0149	0.275	0.0167	0.159	0.391	0.0154	7.11	0.0271	0.0146	0.0927	0.0762	0.0275	0.0099	0.0119	0.03	0.0073	0.0127	0.0127	0.0132	0.0147	3.19	0.0324	0.246	0.145	0.228
Metals	Antimony	6	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	7.15 J	5.12 J	3.54 J	4.18 J	4.12 J	5.99 J	3.53 J	3.58 J	5.15 J	5.32 J	< 20.0	7.19 J	< 20.0	< 20.0	6.48 J	< 20.0	5.21 J	< 20.0	< 20.0	< 20.0	< 20.0	4.77 J	< 20.0	< 20.0	< 20.0
VOCs	1,1-Dichloroethene	7	ug/L	< 1.0	< 5.0	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	2-Butanone		ug/L	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Acetone		ug/L	< 20	< 100	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
VOCs	cis-1,2-Dichloroethene	70	ug/L	13	22	1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0	1.9	< 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	< 1.0	< 1.0	< 1.0	5.3	4.3	< 1.0
VOCs	Tetrachloroethene	5	ug/L	220	480	49	110	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	38	4.1	2.1	< 1.0	< 1.0	24	< 1.0	< 1.0	< 1.0
VOCs	trans-1,2-Dichloroethene	100	ug/L	< 1.0	< 5.0	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Trichloroethene	5	ug/L	84	8.5	8.4	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.5	< 1.0	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	11	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.8	< 1.0	< 1.0
VOCs	Vinyl chloride	2	ug/L	< 1.0	< 5.0	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.9	< 1.0

Table 3 - Summary of October 2019 Groundwater Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well	W-97	WSW-01*	WSW-02*	WSW-03*	WSW-04*
			Date	10/11/2019	10/15/2019	10/22/2019	10/24/2019	10/24/2019
			Type	N	N	N	N	N
Group	Analyte	MCL	Units					
Radiological	Alpha particles	15**	pCi/L	0.168 #	0.599 #	0.876 #	3.63	7.11
Radiological	Beta particles	50**	pCi/L	11.0	0 ##	8.80	2.05 #	2.69 #
Radiological	Technetium-99	900	pCi/L	10.3 #	17.4 #	0.279 #	0.857 #	8.56 #
Radiological	Uranium-234		ug/L	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Radiological	Uranium-235		ug/L	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070
Radiological	Uranium-238		ug/L	< 0.200	0.272	< 0.200	0.776	0.482
Radiological	Total Uranium	30	ug/L	< 0.200	0.272	< 0.200	0.776	0.482
Chemical	Fluoride	4	mg/L	0.375	0.023	0.103	0.013	0.013
Chemical	Nitrate as N	10	mg/L	3.4	0.020	< 0.020	< 0.020	0.067
Chemical	Ammonia		mg/L	4.89	0.0639	0.0273	0.0655	0.0166
Metals	Antimony	6	ug/L	3.97 J	< 20.0	5.89 J	< 20.0	< 20.0
VOCs	1,1-Dichloroethene	7	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	2-Butanone		ug/L	< 10	< 10	< 10	< 10	< 10
VOCs	Acetone		ug/L	< 20	< 20	< 20	< 20	< 20
VOCs	cis-1,2-Dichloroethene	70	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Tetrachloroethene	5	ug/L	4.3	< 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
VOCs	Trichloroethene	5	ug/L	1.2	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Vinyl chloride	2	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
* - private water supply well groundwater sample
** - site-specific action level
N - normal sample
FD - field duplicate sample
MCL - Maximum Contaminant Level
Bold concentrations indicate detections
Concentrations in shaded cells exceed their MCL
- value is below minimum detectable concentration
- value is reported as a negative number
pCi/L - picocuries per liter
ug/L - micrograms per liter
mg/L - milligrams per liter
VOCs - volatile organic compounds
J - Estimated result is less than the practical quantitation limit and greater than the method detection limit

Table 4 - Summary of Surface Water Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Location	SW-11	SW-12	SW-13	SW-14	SW-16	SW-17	SW-17	SW-18	SW-19	SW-20	SW-21	SW-21	SW-22	SW-22	SW-23
				Sample Type	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N
				Date	7/17/2019	7/17/2019	7/17/2019	7/17/2019	7/17/2019	7/18/2019	7/18/2019	7/16/2019	7/17/2019	7/16/2019	7/15/2019	7/17/2019	7/15/2019	7/17/2019	7/16/2019
Group	Analyte	MCL	Unit																
Radiological	Technetium-99	900	pCi/L		0 ##	0 ##	0 ##	3.73 #	0 ##	0 ##	0 ##	1.29 #	0 ##	0 ##	NA	0 ##	NA	0 ##	13.6 #
Radiological	Uranium-234		ug/L		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	NA	< 0.050	NA	< 0.050
Radiological	Uranium-235		ug/L		< 0.070	< 0.070	< 0.070	< 0.070	0.0682 J	< 0.070	< 0.070	< 0.070	0.0174 J	0.0274 J	< 0.070	NA	< 0.070	NA	< 0.070
Radiological	Uranium-238		ug/L		0.365	< 0.200	0.134 J	0.297	1.71	0.246	0.229	0.304	0.507	1.11	0.16 J	NA	0.199 J	NA	0.0673 J
Radiological	Total Uranium	30	ug/L		0.365	< 0.2	0.134	0.297	1.78	0.246	0.229	0.304	0.524	1.14	0.160	NA	0.199	NA	0.0673
Chemical	Fluoride	4	mg/L		0.146	0.296	0.226	0.234	1.69	0.460	0.471	0.309	0.154	0.494	0.433	NA	0.432	NA	4.94
Chemical	Nitrate as N	10	mg/L		< 0.020	< 0.020	< 0.020	0.63	0.48	3.8	3.8	5.7	< 0.020	< 0.020	< 0.02	NA	< 0.02	NA	7.3
Chemical	Ammonia		mg/L		0.546	0.228	0.249	0.233	4.35	0.290	0.290	0.208	0.376	0.640	0.244	NA	0.187	NA	0.459
Metals	Antimony	6	ug/L		< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	NA	< 20.0	NA	< 20.0
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	NA	< 1	NA	< 1.0
VOCs	2-Butanone		ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	NA	< 10
VOCs	Acetone		ug/L		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	NA	< 20	NA	< 20
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	NA	< 1	NA	< 1.0
VOCs	Tetrachloroethene	5	ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16	16	14	< 1.0	< 1.0	< 1	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 1.0

Notes:
MCL - Maximum Contaminant Level
Bold concentrations indicate detections
Concentrations in shaded cells exceed their MCL
NA - not analyzed
- value is below minimum detectable concentration
- value is reported as a negative number
pCi/L - picocuries per liter
ug/L - micrograms per liter
mg/L - milligrams per liter
VOCs - volatile organic compounds

Table 5 - Summary of Sediment Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Location	SED-11	SED-12	SED-13	SED-14	SED-15	SED-16	SED-17	SED-17	SED-18	SED-19	SED-20	SED-21	SED-22	SED-23	SED-24	SED-25*	SED-26*	SED-27**	SED-28**	SED-29	SED-29	SED-29	SED-30	SED-30	SED-31	SED-31	SED-32	SED-32
				Depth	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	6 - 12 in	12 - 16 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in
				Type	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Date	7/17/2019	7/17/2019	7/17/2019	7/17/2019	7/16/2019	7/17/2019	7/18/2019	7/18/2019	7/16/2019	7/17/2019	7/16/2019	7/15/2019	7/15/2019	7/16/2019	7/16/2019	7/18/2019	7/18/2019	7/18/2019	7/18/2019	11/20/2019	11/20/2019	11/20/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019
Group	Analyte	RUSL	IUSL	Units																												
Radiological	Technetium-99	19	89400	pCi/g	0 ##	0 ##	0 ##	0.0243 #	5.62 #	4.94 #	7.50 #	0 ##	0 ##	6.28 #	0 ##	4.12 #	0 ##	50.8	35.8	8.55 #	1.68 #	0 ##	5.75 #	0 ##	0 ##	0 ##	2.43 #	0 ##	0.959 #	0 ##	5.06 #	0 ##
Radiological	Uranium-233/234	13	3310	pCi/g	1.14	0.925	1.67	1.42	2.58	14.9	0.658	1.07	0.219	32.5	62.5	1.86	117	1.35	1.14	907	222	225	254	6.23	1.81	1.23	5.71	1.41	2.81	2.96	3.71	10.0
Radiological	Uranium-235/236	8	39	pCi/g	0.00159 #	0.0647 #	0.156 #	0.0250 #	0.181	0.678	0.0235 #	0.104 #	0.0173 #	2.30	3.12	0.104 #	4.98	0.00261 #	0.0608 #	41.1	11.0	11.9	12.4	0.313	0.208	0.175	0.191	0.0337 #	0.0669 #	0.110 #	0.0970 #	0.469
Radiological	Uranium-238	14	179	pCi/g	0.742	1.17	1.33	0.389	2.05	2.77	0.302	0.354	0.298	8.18	14.9	1.96	28.0	1.69	0.944	149	46.9	37.4	44.6	2.51	1.55	1.16	2.51	1.28	1.75	1.69	2.00	3.28
Radiological	Uranium-234			ug/kg	< 25.7	< 25.6	< 15.4	< 12.1	< 12.4	< 12.0	< 11.0	< 11.8	< 12.0	4.27 J	12.7 J	< 30.8	22 J	< 14.4	< 15.9	225	129	38.9 J	57.2 J	< 24.3	< 18.4	< 15.1	< 20.4	< 21.1	< 14.5	< 12.4	< 19.9	< 18.4
Radiological	Uranium-235			ug/kg	11.5 J	16 J	13.8 J	5.32 J	51.2	114	6.57 J	2.9 J	5 J	451	1310	27.8 J	2230	18.3 J	15.9 J	27100	14200	3970	6770	86.4	21.4 J	17.6 J	85.9	21 J	45.6	18.1	72.9	195
Radiological	Uranium-238			ug/kg	1320	1700	1360	260	5790	3310	401	140	265	16200	49700	2840	80700	2250	1680	646000	487000	90900	161000	6030	2490	2490	5410	2690	3400	2220	4280	8370
Radiological	Total Uranium Isotopes			ug/kg	1330	1720	1370	265	5840	3420	408	143	270	16700	51000	2870	83000	2270	1700	673000	501000	94900	168000	6120	2510	2510	5500	2710	3450	2240	4350	8570
Chemical	Fluoride			mg/kg	1.35 J	2.26 J	1.45 J	< 1.21	2.09	8.73	0.908 J	0.814 J	< 1.22	3.51	15.7	2.17 J	4.64	38.1	49.2	53.3	4.61	171	39.3	1.14 J	2.56	2.61	2.26	3.43	3.13	3.07	3.88	4.21
Chemical	Nitrate as N			mg/kg	0.33	0.24	0.2	< 0.2	< 0.20	2.7	2.1	0.95	< 0.20	1.2	< 0.20	< 0.2	< 0.2	< 0.20	0.20	0.27	1.4	0.30	< 0.20	< 0.50	< 0.50	NA	< 0.50	< 0.50	< 0.50	< 0.50	1.1	< 0.50
Chemical	Ammonia			mg/kg	723	560	98.5	6.43	49.0	13.5	4.15	3.66	3.48	401	1600	532	978	214	70.5	2270	167	395	1560	455	287	230	394	392	286	118	480	576
Metals	Antimony			mg/kg	< 5.29	< 4.93	< 3	0.511 J	< 2.42	0.447 J	0.482 J	0.512 J	< 2.53	< 3.75	< 11.7	< 6	< 6.26	< 2.87	< 2.94	5.01 J	1.22 J	4.79 J	6.81 J	< 4.85	< 3.53	< 2.97	< 4.08	< 4.41	< 28.4	< 25.6	< 4.15	< 3.44
VOCs	1,1-Dichloroethene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4
VOCs	2-Butanone			ug/kg	< 25	180	< 24	< 17	< 15	< 16	< 19	< 19	< 18	45	45	< 25	32	< 28	< 17	NA	NA	NA	NA	< 21	< 18	< 24	26	25	< 16	< 17	38	76
VOCs	Acetone			ug/kg	32	110	30	28	< 15	< 16	< 19	< 19	< 18	48	110	67	88	91	25	NA	NA	NA	NA	410	420	370	380	530	410	440	450	440
VOCs	cis-1,2-Dichloroethene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4
VOCs	Tetrachloroethene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	5.5	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4
VOCs	Toluene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4
VOCs	trans-1,2-Dichloroethene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4
VOCs	Trichloroethene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4
VOCs	Vinyl chloride			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4

Table 5 - Summary of Sediment Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Location	SED-33	SED-33	SED-33	SED-34	SED-34	SED-35	SED-35	SED-36	SED-36	SED-37	SED-37	SED-37	SED-38	SED-39	SED-40	SED-41	SED-42	SED-43	SED-44	SED-45	SED-46	SED-47	SED-48	SED-48	SED-49	SED-50
				Depth	0 - 6 in	6 - 12 in	12 - 16 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	6 - 12 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in
				Type	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	FD	N	N
Group	Analyte	RUSL	IUSL	Units	Date	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/22/2019	11/22/2019	11/22/2019	11/22/2019	11/22/2019	11/22/2019	11/22/2019	11/22/2019	11/22/2019	11/22/2019	11/22/2019	11/25/2019	11/25/2019	11/25/2019	11/25/2019	11/25/2019	11/25/2019	11/26/2019	11/26/2019	11/26/2019	11/26/2019	11/26/2019
Radiological	Technetium-99	19	89400	pCi/g	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	16.5 #	0 ##	0 ##	0.995 #	5.94 #	0 ##	6.23 #	2.83 #	0 ##	0 ##	0 ##	0 ##	0 ##	0.910 #
Radiological	Uranium-233/234	13	3310	pCi/g	5.06	1.27	1.06	3.13	2.93	2.26	1.59	4.40	1.50	4.88	2.04	2.33	3.26	1.86	1.90	1.72	6.12	47.5	8.86	5.86	4.02	3.18	2.57	2.43	4.59	3.64
Radiological	Uranium-235/236	8	39	pCi/g	0.394	0.0959 #	0.0461 #	0.131 #	0.0487 #	0.179	0.0433 #	0.210	0.0881	0.254	0.149	0.0456 #	0.204	0.0122 #	0.131	0.0394 #	0.285	2.32	0.377	0.268	0.179	0.232	0.0910 #	0.0144 #	0.215	0.104 #
Radiological	Uranium-238	14	179	pCi/g	2.52	1.56	1.09	1.81	1.73	1.59	1.66	2.38	1.05	1.78	1.62	1.38	1.68	1.70	1.24	1.41	2.23	12.1	2.62	2.20	2.15	1.46	1.98	1.62	2.11	1.86
Radiological	Uranium-234			ug/kg	< 16.5	< 14.7	< 14.1	< 17.6	< 16.3	< 14.0	< 13.2	< 14.2	< 13.5	< 15.9	< 14.5	< 15.0	< 34.6	< 15.9	< 17.4	< 26.9	< 52.5	< 55.9	< 32.5	< 34.5	< 30.6	< 41.0	< 25.8	< 29.6	< 37.2	< 31.4
Radiological	Uranium-235			ug/kg	305	21.8	16.5 J	44.9	36.3	36.8	28.9	70.2	19.1	102	67.4	31.7	31.8 J	26.4	28.4	17.8 J	156	862	238	100	48.9	44 J	40.3	37.4 J	81.9	72.1
Radiological	Uranium-238			ug/kg	14200	2750	2230	3650	3770	3920	3630	3970	1990	4850	3930	2910	3380	3040	3020	2390	7220	31300	9690	4920	3190	2560	3140	2650	4840	4470
Radiological	Total Uranium Isotopes			ug/kg	14500	2770	2250	3690	3810	3960	3660	4040	2010	4950	4000	2940	3410	3070	3050	2410	7380	32200	9930	5020	3240	2600	3180	2690	4920	4540
Chemical	Fluoride			mg/kg	1.57 J	1.56	6.63	2.20	4.26	2.09	4.29	< 1.44	< 1.32	1.35 J	1.60	0.858 J	5.17	1.90	1.65 J	2.68 J	5.15 J	14.9	3.04 J	7.90	3.41	6.02	2.94	3.46	5.44	4.67
Chemical	Nitrate as N			mg/kg	< 0.50	< 0.50	NA	0.62	< 0.50	< 0.50	< 0.50	< 0.50	0.55	< 0.50	< 0.50	< 0.50	0.66	< 0.5	< 0.50	0.63	0.83	0.50	< 0.50	0.82	0.62	0.59	0.63	0.70	0.58	0.53
Chemical	Ammonia			mg/kg	248	117	67.3	397	336	158	80.1	153	99.1	451	127	178	576	222	242	466	928	774	389	586	371	1540	806	1080	209	750
Metals	Antimony			mg/kg	< 35.6	< 30.3	< 2.73	< 3.59	< 32.8	< 29.9	< 28	< 2.89	< 26.9	< 3.27	< 28.3	< 30	< 6.96	< 3.32	< 3.48	< 5.62	< 10.3	< 11.5	< 7.06	< 6.5	< 6.1	< 8.72	< 5.01	< 5.68	< 7.62	< 6.52
VOCs	1,1-Dichloroethene			ug/kg	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1	< 6.3
VOCs	2-Butanone			ug/kg	< 20	45	NA	28	28	< 18	< 17	< 18	< 20	< 20	< 18	< 18	< 24	< 19	< 21	< 26	< 27	< 29	< 29	29	< 26	160	39	23	< 28	190
VOCs	Acetone			ug/kg	490	400	NA	200	180	390	310	370	350	300	350	360	400	< 19	260	96	59	79	57	130	110	410	220	280	300	370
VOCs	cis-1,2-Dichloroethene			ug/kg	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1	< 6.3
VOCs	Tetrachloroethene			ug/kg	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1	< 6.3
VOCs	Toluene			ug/kg	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1	< 6.3
VOCs	trans-1,2-Dichloroethene			ug/kg	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1	< 6.3
VOCs	Trichloroethene			ug/kg	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1	< 6.3
VOCs	Vinyl chloride			ug/kg	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1	< 6.3

Table 5 - Summary of Sediment Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Location	SED-51	SED-51	SED-52	SED-52	SED-53	SED-53	SED-54	SED-54	SED-55	SED-55	SED-56	SED-56	SED-56
				Depth	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	0 - 6 in	6 - 12 in
				Type	N	N	N	N	N	N	N	N	N	N	N	FD	N
				Date	11/27/2019	11/27/2019	11/27/2019	11/27/2019	11/27/2019	11/27/2019	12/2/2019	12/2/2019	12/2/2019	12/2/2019	12/2/2019	12/2/2019	12/2/2019
Group	Analyte	RUSL	IUSL	Units													
Radiological	Technetium-99	19	89400	pCi/g	0 ##	4.89 #	0 ##	0 ##	0 ##	0 ##	1.51 #	0 ##	6.19 #	0 ##	2.53 #	0 ##	0 ##
Radiological	Uranium-233/234	13	3310	pCi/g	2.10	1.27	1.77	1.88	2.15	2.06	1.78	1.48	2.05	1.62	2.02	2.82	1.89
Radiological	Uranium-235/236	8	39	pCi/g	0.178 #	0.0695 #	0.308 #	0.0494 #	0.194	0.0708 #	0.119 #	0.120 #	0 ##	0.155	0.214	0.115 #	0.0276 #
Radiological	Uranium-238	14	179	pCi/g	1.42	1.15	1.72	1.45	1.45	2.34	1.36	1.87	1.74	1.62	1.40	2.11	1.72
Radiological	Uranium-234			ug/kg	< 31.2	< 28.9	< 21.8	< 23.3	< 17.3	< 14.1	< 37.1	< 25.3	< 18.3	< 16.0	< 17.2	< 18.8	< 16.4
Radiological	Uranium-235			ug/kg	28.2 J	20.6 J	26.8 J	29.5 J	29.2	24.7	22.6 J	26 J	25.4 J	23.2	23 J	24.5 J	21.7 J
Radiological	Uranium-238			ug/kg	2610	2450	2530	2690	3200	3290	2870	2990	3450	3230	3100	3440	2970
Radiological	Total Uranium Isotopes			ug/kg	2640	2470	2560	2720	3230	3310	2890	3020	3480	3250	3120	3460	2990
Chemical	Fluoride			mg/kg	2.77 J	2.96	1.48 J	1.69 J	0.838 J	0.607 J	1.93 J	1.01 J	< 1.88	< 1.76	< 1.89	< 1.96	0.690 J
Chemical	Nitrate as N			mg/kg	0.72	0.51	< 0.50	0.61	< 0.50	< 0.50	0.63	0.68	< 0.50	< 0.50	0.52	0.74	< 0.50
Chemical	Ammonia			mg/kg	692	401	465	271	387	196	854	536	321	223	449	325	244
Metals	Antimony			mg/kg	< 5.8	< 5.66	< 4.58	< 4.27	< 3.46	< 31.3	< 7.44	< 5.3	< 3.66	< 3.04	< 3.6	< 3.47	< 3.26
VOCs	1,1-Dichloroethene			ug/kg	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	2-Butanone			ug/kg	43	< 27	31	< 26	< 22	< 21	42	< 25	< 19	< 20	< 21	< 19	< 14
VOCs	Acetone			ug/kg	330	180	100	< 26	< 22	170	330	39	< 19	200	220	23	< 14
VOCs	cis-1,2-Dichloroethene			ug/kg	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Tetrachloroethene			ug/kg	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Toluene			ug/kg	8.7	< 6.7	10	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	trans-1,2-Dichloroethene			ug/kg	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Trichloroethene			ug/kg	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Vinyl chloride			ug/kg	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5

Notes:
N - normal sample
FD - field duplicate sample
RUSL - Residential Use Screening Level (NUREG 1757, Appendix H)
IUSL - Industrial Use Screening Level (NUREG 1757, Appendix H)
Bold concentrations indicate detections
Concentrations in shaded cells exceed their RUSL/IUSL
NA - not analyzed
- value is below minimum detectable concentration
- value is reported as a negative number
pCi/g - picocuires per gram
ug/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
SVOCs - semivolatile organic compounds
VOCs - volatile organic compounds
* - sludge sample collected from the Sanitary Lagoon
** - sludge sample collected from the East Lagoon
J - Estimated result is less than the practical quantitation limit and greater than the method detection limit

Table 6 - Summary of Soil Technetium-99 Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Sample ID	Sample Depth (feet bgs)	Collection Date	Result (pCi/g)
		Residential Use Screening Level	19
		Industrial Use Screening Level	89,400
SS-1	0-1	8/15/19	0.171 #
SS-1	1-3	8/15/19	4.39 #
SS-1	3-5	8/15/19	0.00 ##
SS-1	5-7	8/15/19	0.00 ##
SS-2	0-1	8/14/19	0.00 ##
SS-2	1-3	8/14/19	9.60 #
SS-2	3-5	8/14/19	4.78 #
SS-2	5-7	8/14/19	4.02 #
SS-3	0-1	8/14/19	12.9 #
SS-3	1-3	8/14/19	4.83 #
SS-3	3-5	8/14/19	0.00 ##
SS-3	5-7	8/14/19	3.12 #
SS-3-DUP	5-7	8/14/19	1.35 #
SS-4	0-1	8/14/19	2.35 #
SS-4	1-3	8/14/19	16.1 #
SS-4	3-5	8/14/19	7.72 #
SS-4	5-7	8/14/19	0.00 ##
SS-5	0-1	8/14/19	0.637 #
SS-5	1-3	8/14/19	0.00 ##
SS-5	3-5	8/14/19	4.46 #
SS-5	5-7	8/14/19	0.843 #
SS-6	0-1	8/14/19	7.58 #
SS-6	1-3	8/14/19	0.00 ##
SS-6	3-5	8/14/19	0.00 ##
SS-6	5-7	8/14/19	0.00 ##
SS-7	0-1	8/13/19	8.60 #
SS-7	1-3	8/13/19	0.00 ##
SS-7	3-5	8/13/19	0.00 ##
SS-7	5-7	8/13/19	0.00 ##
SS-8	0-1	8/13/19	0.00 ##
SS-8	1-3	8/13/19	5.52 #
SS-8	3-5	8/13/19	1.09 #
SS-8	5-7	8/13/19	0.00 ##
SS-9	0-1	8/13/19	0.00 ##
SS-9	1-3	8/13/19	0.00 ##
SS-9	3-5	8/13/19	0.572 #
SS-9	5-7	8/13/19	18.1 #
SS-10	0-1	8/13/19	0.00 ##
SS-10	1-3	8/13/19	0.00 ##
SS-10	3-5	8/13/19	0.00 ##
SS-10	5-7	8/13/19	0.00 ##
SS-11	0-1	8/12/19	9.64 #
SS-11	1-3	8/12/19	0.00 ##
SS-11	3-5	8/12/19	14.3 #
SS-11	5-7	8/12/19	17.3 #

Table 6 - Summary of Soil Technetium-99 Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Sample ID	Sample Depth (feet bgs)	Collection Date	Result (pCi/g)
		Residential Use Screening Level	19
		Industrial Use Screening Level	89,400
SS-12	0-1	8/12/19	8.88 #
SS-12	1-3	8/12/19	8.02 #
SS-12	3-5	8/12/19	10.0 #
SS-12	5-7	8/12/19	6.76 #
SS-13	0-1	8/12/19	5.42 #
SS-13	1-3	8/12/19	11.0 #
SS-13	3-5	8/12/19	2.05 #
SS-13	5-7	8/12/19	3.31 #
SS-13-DUP	5-7	8/12/19	21.6 #
SS-14	0-1	8/13/19	4.80 #
SS-14	1-3	8/13/19	1.57 #
SS-14	3-5	8/13/19	4.99 #
SS-14	5-7	8/13/19	0.00 ##
SS-14-DUP	5-7	8/13/19	9.42 #

Notes:
bgs - below ground surface
pCi/g - picocuries per gram
- value is below minimum detectible concentration
- value is reported as a negative number
DUP - field duplicate sample
Concentrations in shaded cells exceed their RUSL

Table 7 - Summary of Hydraulic Characteristic Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Number	Test Type	Hydraulic Conductivity (K)		Average Hydraulic Cond. (K)	
		cm/sec	ft/day	cm/sec	ft/day
W-13R*	F	3.46E-03	9.80	3.51E-03	9.95
	R	3.56E-03	10.09		
W-15*	F	1.96E-03	5.56	1.96E-03	5.55
	R	1.95E-03	5.53		
W-39*	F	1.17E-03	3.33	1.08E-03	3.06
	R	9.80E-04	2.78		
W-48*	F	2.12E-04	0.60	1.97E-04	0.56
	R	1.83E-04	0.52		
W-60*	F	4.71E-02	133.70	4.41E-02	125.20
	R	4.11E-02	116.70		
W-61*	F	1.79E-03	5.09	1.81E-03	5.12
	R	1.82E-03	5.15		
W-94	F	1.65E-03	4.67	1.87E-03	5.31
	R	2.09E-03	5.94		
W-95	F	2.11E-02	59.84	1.51E-02	42.95
	R	9.19E-03	26.05		
W-96	F	1.45E-02	41.19	2.07E-02	58.58
	R	2.68E-02	75.97		
W-97	F	2.75E-02	78.00	2.84E-02	80.45
	R	2.92E-02	82.89		
Average Conductivity - Floodplain Aquifer				1.65E-02	46.82

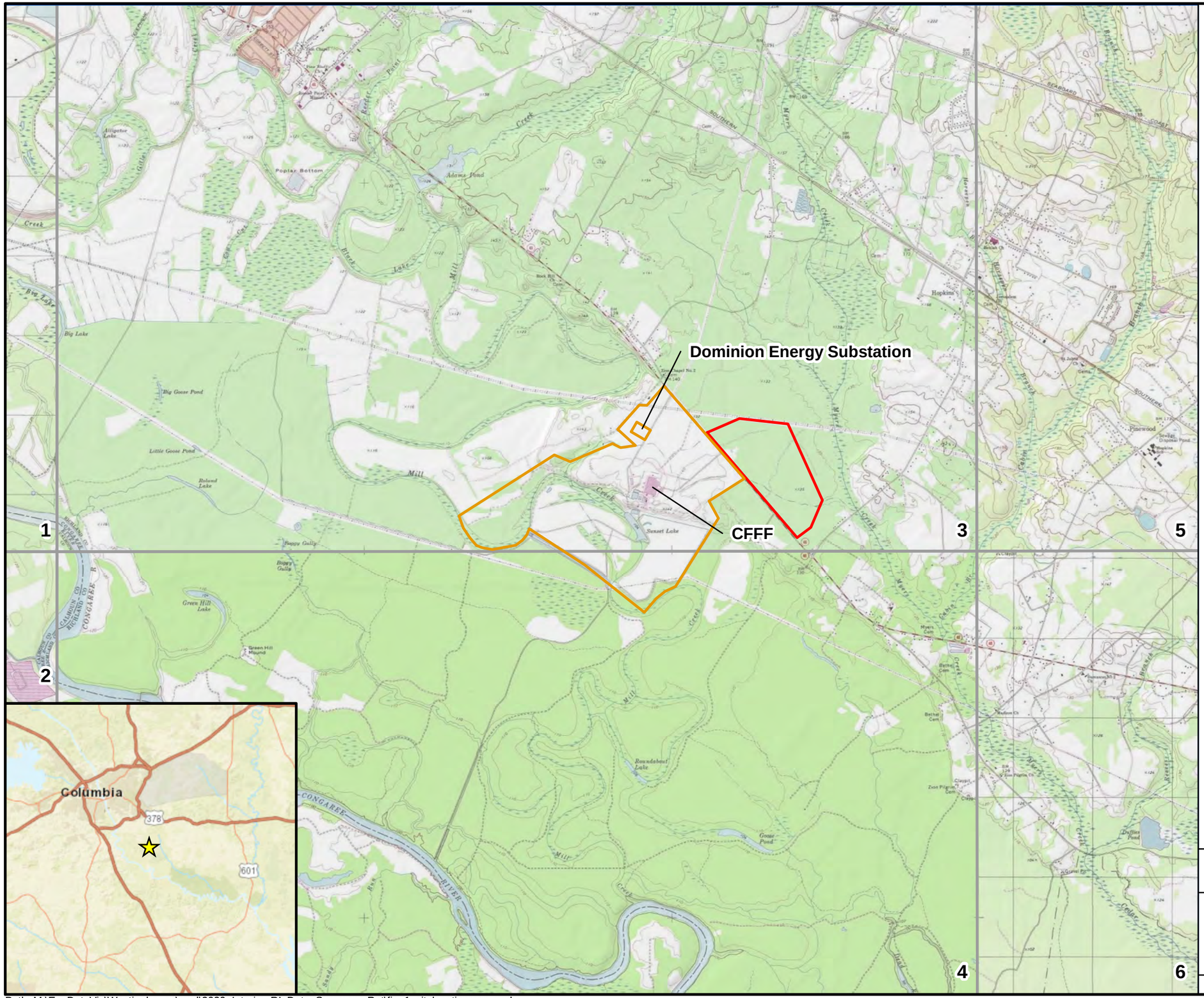
Notes:
F - Falling Head Test
R - Rising Head Test
cm/sec - centimeters per second
ft/day - feet per day
* - slug tests conducted during a previous phase of work in upper and lower surficial aquifer wells but not previously reported

Table 8 - Summary of Private Water Supply Well Survey Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Map ID	Address/Designation	Latitude	Longitude	Richland County Tax Map ID #
1	150 Hopkins Park Road	-	-	R21400-01-11
2	7028 Lower Richland Blvd	-	-	R21400-01-27
3	7040 Lower Richland Blvd	-	-	R21400-01-39
4	7048 Lower Richland Blvd	-	-	R21400-01-16
5	7064 Lower Richland Blvd	-	-	R21400-01-30
6	7071 Lower Richland Blvd	-	-	R21400-02-65
7	7072 Lower Richland Blvd	-	-	R21400-01-17
8	7131 Lower Richland Blvd	-	-	R21400-02-61
9	7152 Lower Richland Blvd	-	-	R21400-01-24
10	5943 Bluff Road	-	-	R21400-03-09
11	6001 Bluff Road	-	-	R21400-03-02
12	6041 Bluff Road	-	-	R21400-03-05
13	6045 Bluff Road	-	-	R21400-03-06
14	1012 Coley Road	-	-	R18705-01-05
15	1109 Coley Road	-	-	R18800-02-18B

Table 8 - Summary of Private Water Supply Well Survey Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Map ID	Address/Designation	Latitude	Longitude	Richland County Tax Map ID #
16	1113 Coley Road	-	-	R18700-03-04
17	1122 Coley Road	-	-	R18705-01-08
18	1243 Coley Road	-	-	R18706-02-02
19	1249 Coley Road	-	-	R18706-02-03
20	1249 Coley Road	-	-	R18706-02-04
21	109 Nicie Byrd Way	-	-	R18800-02-19
22	117 Nicie Byrd Way	-	-	R18800-02-50
23	125 Nicie Byrd Way	-	-	R18800-02-49
24	133 Nicie Byrd Way	-	-	R18800-02-48
25	100 Pincushion Road	-	-	R18700-04-09
26	WSW-01	33.8892625	-80.93917313	R15900-01-06
27	IWSW-01	33.88717942	-80.92577294	R15900-01-06
28	IWSW-02	33.88875406	-80.92383756	R15900-01-06
31	WSW-02	33.85836279	-80.9297476	R18500-01-02
29	WSW-03	33.87559353	-80.94351638	R15700-01-01
30	WSW-04	33.84324651	-80.93413056	R15600-01-02



Legend

Locations

- Property Line
- SCRDI Bluff Road (Superfund Site)
- Topographic Quadrangle Boundary

ID	Topographic Quadrangle Name
1	Southwest Columbia
2	Gaston
3	Fort Jackson South
4	Saylors Lake
5	Congaree
6	Gadsden

0 2,000 4,000 Feet

1:48,000

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

Datum: North American 1983

Data Source: Esri/USGS

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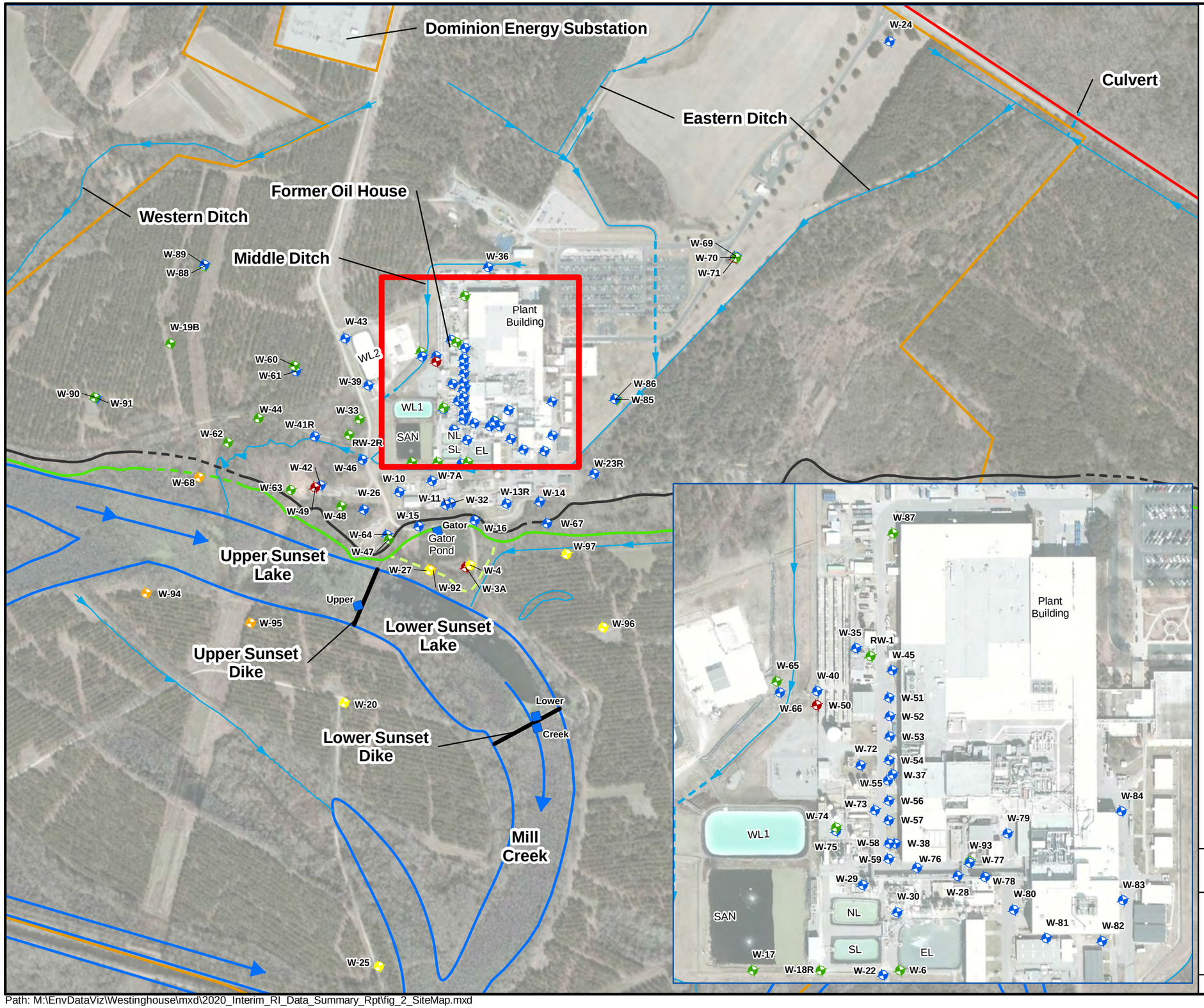
Site Location Map

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60595649	CCS	February 2020	**FIGURE 1**

Path: M:\EnvDataViz\Westinghouse\mxd\2020_Interim_RI_Data_Summary_Rpt\fig_1_sitelocationmap.mxd



Legend

- Ditch
- Culvert
- Mill Creek Flow Direction
- EL — East Lagoon
- NL — North Lagoon
- SL — South Lagoon
- SAN — Sanitary Lagoon
- WL1 — West Lagoon I
- WL2 — West Lagoon II

Groundwater Monitoring Wells

- Upper Surficial Aquifer
- Lower Surficial Aquifer
- Black Mingo Aquifer
- Upper Floodplain Well
- Lower Floodplain Well

- Mill Creek
- Property Line
- SCRDI Bluff Road (Superfund Site)
- Dike Location
- Staff Gauge Location
- Top of Bluff
- Inferred Top of Bluff
- Bottom of Bluff
- Inferred Bottom of Bluff
- Secondary Bluff Area

0 300 600 Feet

1:7,200

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

Datum: North American 1983

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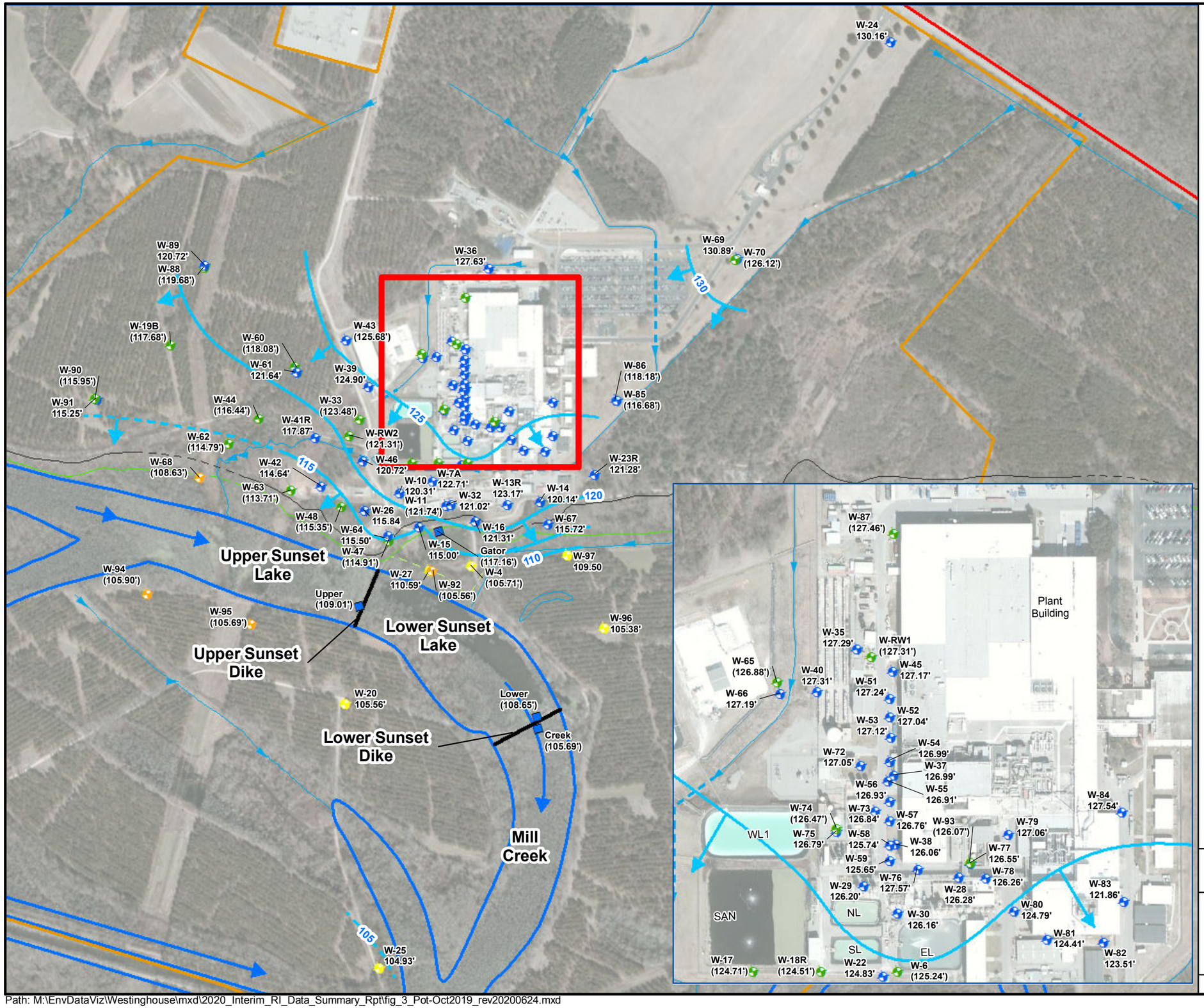
Site Map

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60595649	CCS	June 2020	**FIGURE 2**

Path: M:\EnvDataViz\Westinghouse\mxd\2020_Interim_RI_Data_Summary_Rpt\fig_2_SiteMap.mxd



Legend

Groundwater Monitoring Wells

- Upper Surficial Aquifer
- Lower Surficial Aquifer
- Black Mingo Aquifer
- Upper Floodplain Well
- Lower Floodplain 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	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, dashed where inferred)
- Direction of Groundwater

124.90' Groundwater Elevation

(127.46') Elevation for illustrative purposes only

Based upon data from October 14, 2019

0 300 600 Feet

1:7,200

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

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Potentiometric Map – Upper Surficial/Upper Floodplain Aquifers

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60595649	RGM	June 2020	**FIGURE 3**

Path: M:\EnvDataViz\Westinghouse\mxd\2020_Interim_RI_Data_Summary_Rpt\fig_3_Pot-Oct2019_rev20200624.mxd

Legend

- Black Mingo Aquifer Monitoring Well Location
- 114.74' Groundwater Elevation
- Potentiometric Line (C.I. = 2 feet)
- Direction of Groundwater Flow
- Ditch
- Culvert

114.74'	Groundwater Elevation
EL	East Lagoon
NL	North Lagoon
SL	South Lagoon
SAN	Sanitary Lagoon
WL1	West Lagoon 1
WL2	West Lagoon 2

Note:

Based upon data collected on October 14, 2019

N

0 250 500 Feet

1:6,000

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

Datum: North American 1983

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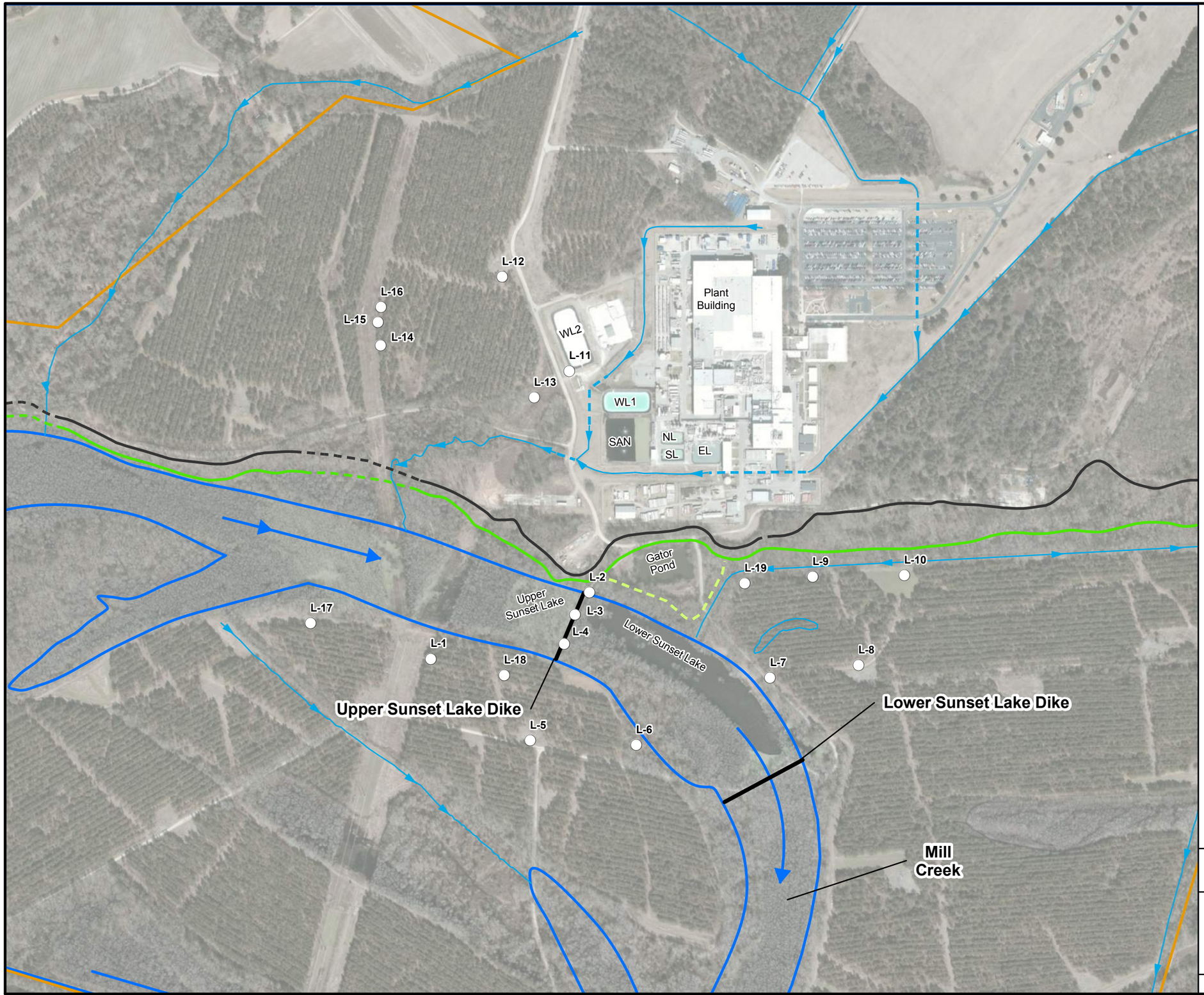
Potentiometric Map - Black Mingo Aquifer

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60595649	LJG	June 2020	**FIGURE 4**

Path: M:\EnvDataViz\Westinghouse\mxd\2020_Interim_RI_Data_Summary_Rpt\fig_4_BlackMingo_Pot-Oct2019.mxd



Legend

- Lithologic Boring Locations
- Ditch
- Culvert
- Mill Creek Flow Direction
- Dike Location
- Mill Creek
- Property Line
- 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 1
- WL2 West Lagoon 2

0 250 500 Feet

1:6,000

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

Datum: North American 1983

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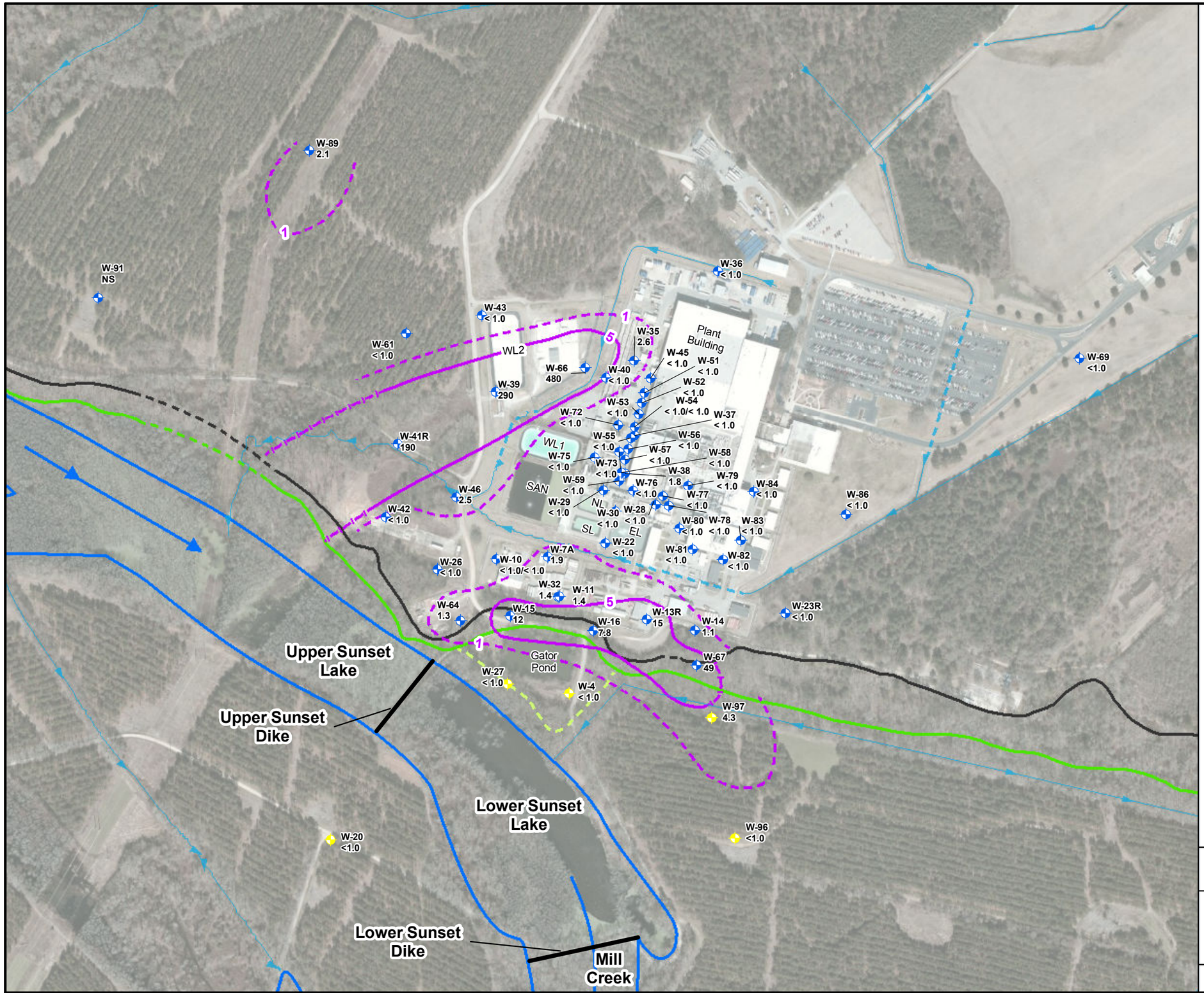
Lithologic Boring Locations

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60595649	LJG	June 2020	**FIGURE 5**

Path: M:\EnvDataViz\Westinghouse\mxd\2020_Interim_RI_Data_Summary_Rpt\fig_5_LithologicBoringLocations.mxd



Legend

- Upper Surficial Aquifer Monitoring Well Location
- Upper Floodplain Aquifer Monitoring Well Location
- 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 (µg/L)
- PCE Inferred Isoconcentration Contour (µg/L)
- PCE Isoconcentration Contour at a Concentration Less Than the Maximum Contaminant Level (µg/L)

480	PCE Concentration in µg/L
NS	Not Sampled
EL	East Lagoon
NL	North Lagoon
SL	South Lagoon
SAN	Sanitary Lagoon
WL1	West Lagoon 1
WL2	West Lagoon 2

Note:

Based upon data collected in October 2019

N

0 200 400 Feet

1:4,800

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

Datum: North American 1983

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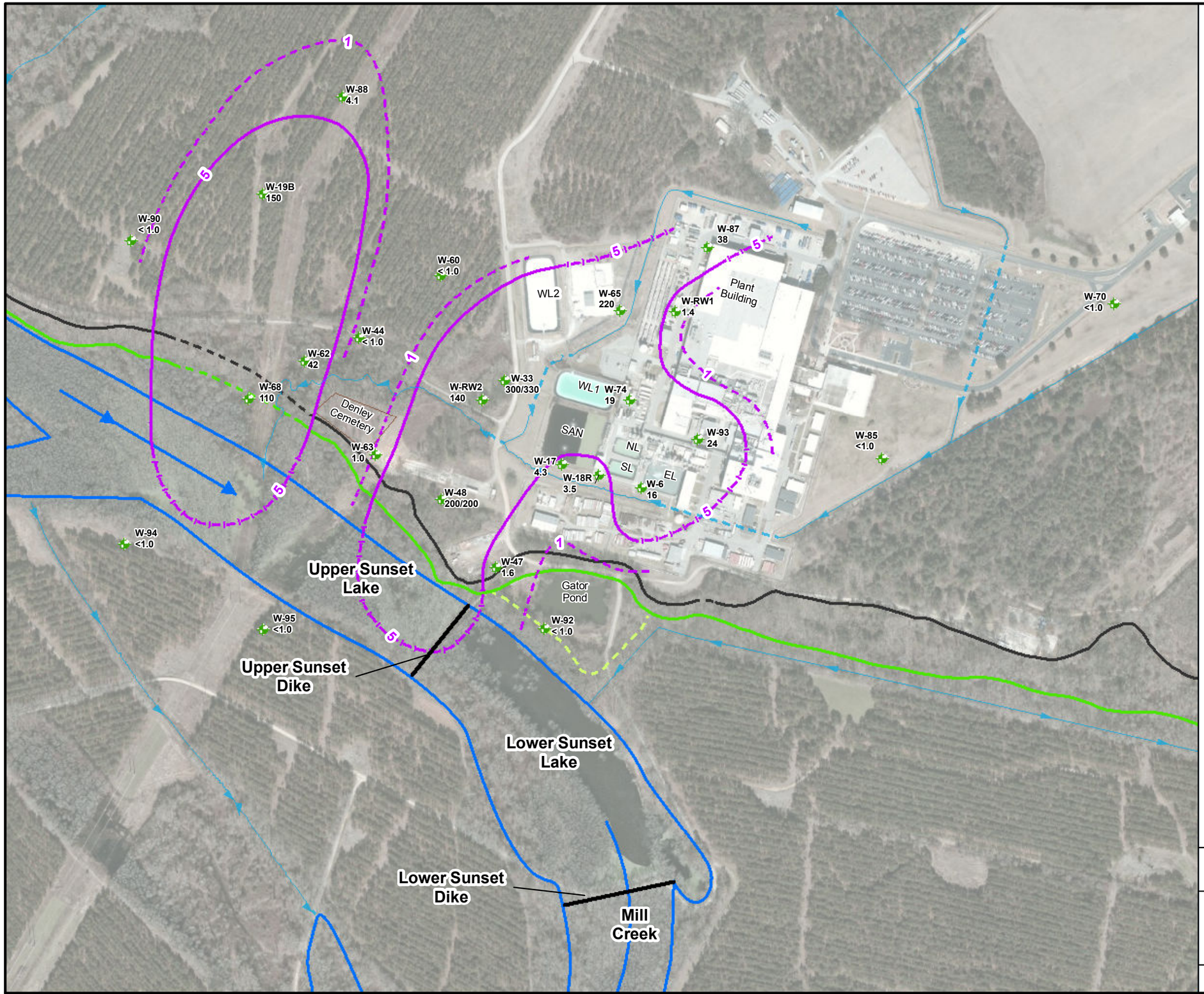
Extent of PCE – Upper Aquifers

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60595649	RGM	June 2020 Rev. February 2021	**FIGURE 6**

Path: M:\EnvDataViz\Westinghouse\mxd\2020_Interim_RI_Data_Summary_Rpt\fig_6_PCE_UpperSurf_Oct2019.mxd



Legend

- Lower Surficial Aquifer Monitoring Well Location
- 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 (µg/L)
- PCE Inferred Isoconcentration Contour (µg/L)
- PCE Isoconcentration Contour at a Concentration Less Than the Maximum Contaminant Level (µg/L)

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

N

Note:

Based upon data collected in October 2019

0 200 400 Feet

1:4,800

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

Datum: North American 1983

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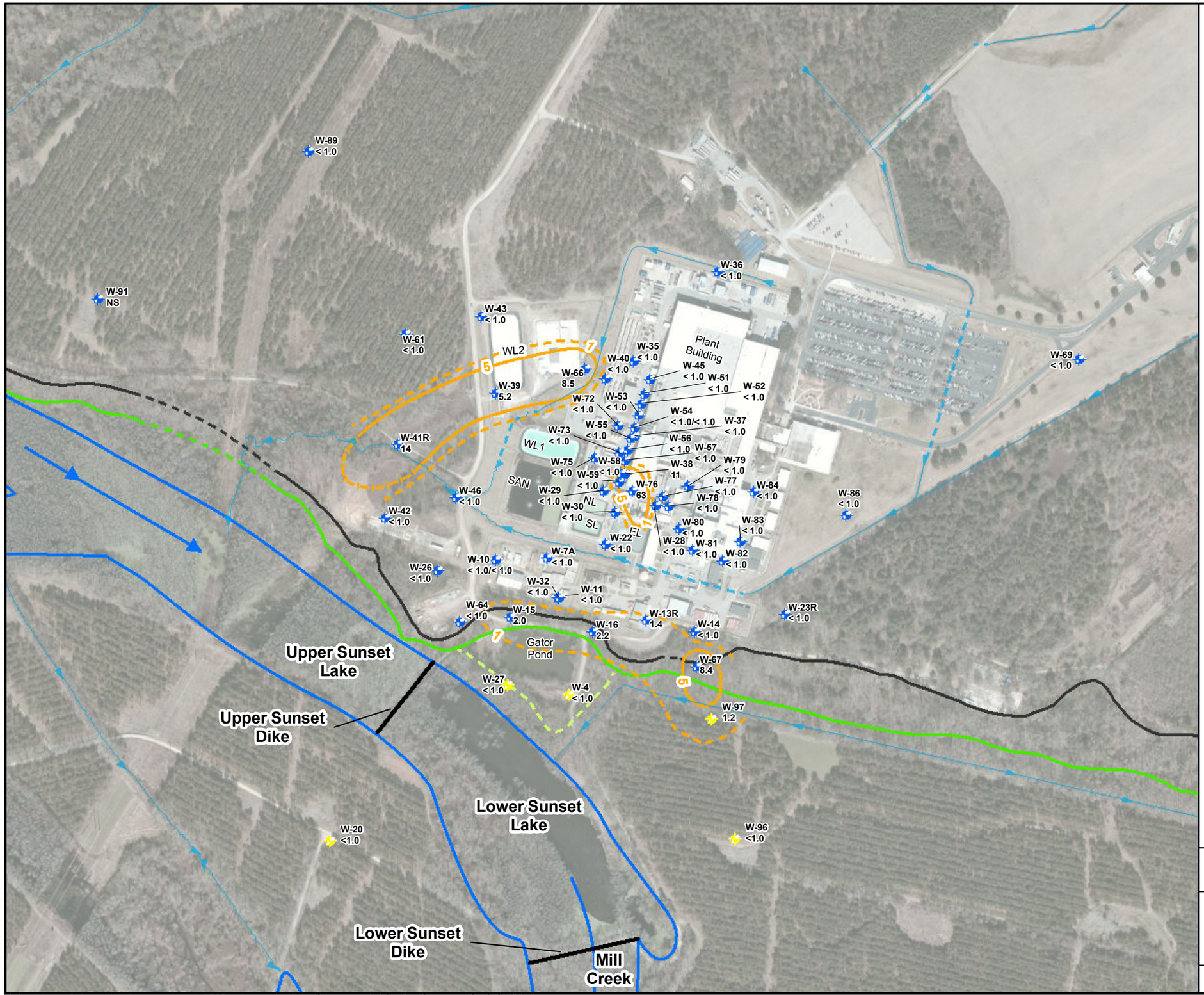
Extent of PCE – Lower Aquifers

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60595649	RGM	June 2020 Rev. February 2021	**FIGURE 7**

Path: M:\EnvDataViz\Westinghouse\mxd\2020_Interim_RI_Data_Summary_Rpt\fig_7_PCE_LowerSurf_Oct2019.mxd



Legend

- Upper Surficial Aquifer Monitoring Well Location
- Upper Floodplain Aquifer Monitoring Well Location
- 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 (ug/L)
- TCE Inferred Isoconcentration Contour (ug/L)
- TCE Isoconcentration Contour at a Concentration Less Than the Maximum Contaminant Level (ug/L)

63	TCE Concentration in µg/L
EL	East Lagoon
NL	North Lagoon
SL	South Lagoon
SAN	Sanitary Lagoon
WL1	West Lagoon 1
WL2	West Lagoon 2

Note:

Based upon data collected in October 2019

N

0 200 400 Feet

1:4,800

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

Datum: North American 1983

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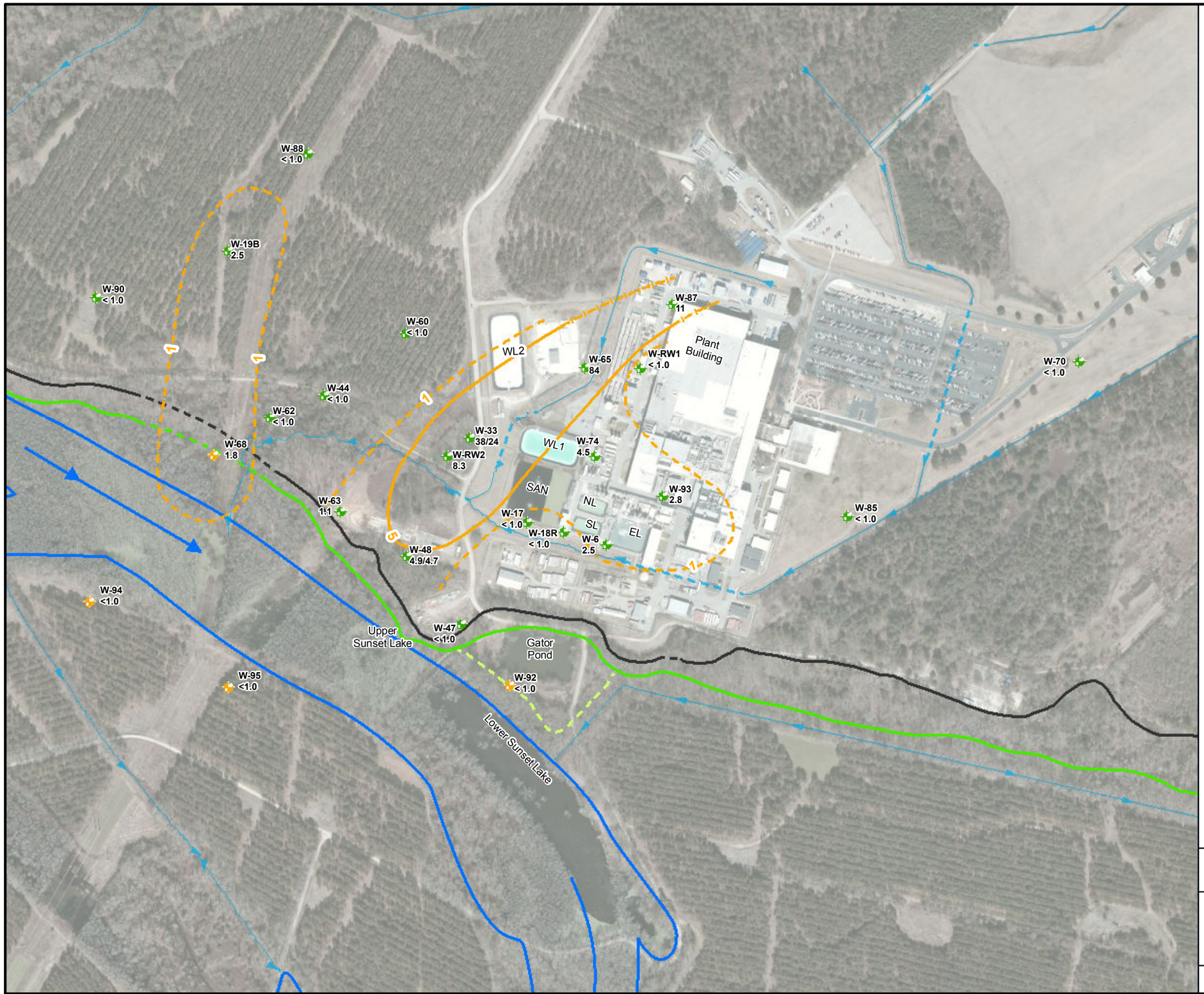
Extent of TCE – Upper Aquifers

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60595649	RGM	June 2020 Rev. February 2021	FIGURE 8

Path: M:\EnvDataViz\Westinghouse\mxd\2020_Interim_RI_Data_Summary_Rpt\fig_8_TCE_UpperSurf_Oct2019.mxd



Legend

- Lower Surficial Aquifer Monitoring Well Location
- Lower Floodplain Aquifer Monitoring Well Location
- Ditch
- Culvert
- 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 (ug/L)
- TCE Inferred Isoconcentration Contour (ug/L)
- TCE Inferred Isoconcentration Contour at a Concentration Less Than the Maximum Contamminant Level (ug/L)

84	TCE Concentration in µg/L
EL	East Lagoon
NL	North Lagoon
SL	South Lagoon
SAN	Sanitary Lagoon
WL1	West Lagoon 1
WL2	West Lagoon 2

Note:

Based upon data collected in October 2019

N

0 200 400 Feet

1:4,800

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

Datum: North American 1983

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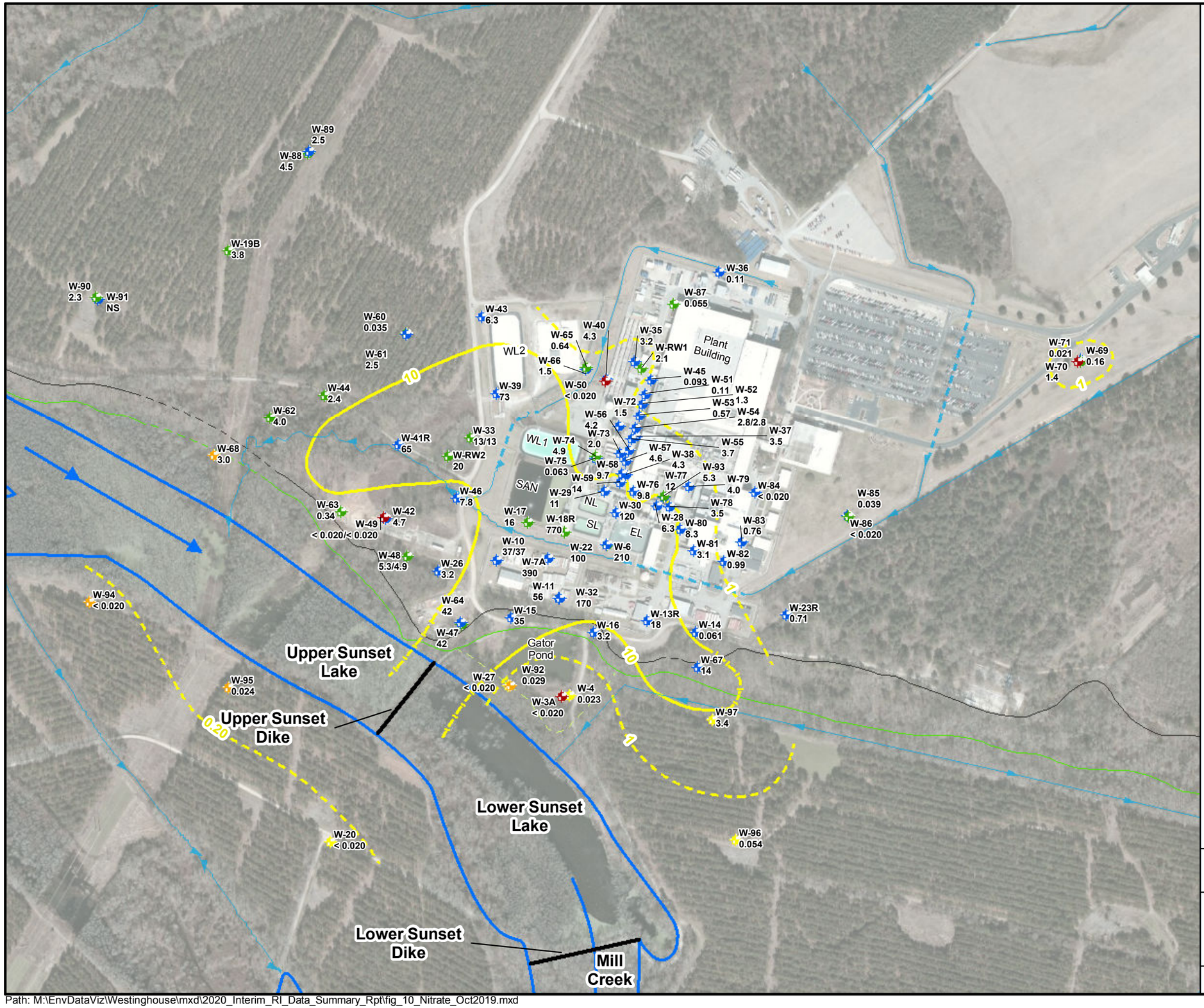
Extent of TCE – Lower Aquifers

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60595649	RGM	June 2020 Rev. February 2021	**FIGURE 9**

Path: M:\EnvDataViz\Westinghouse\mxd\2020_Interim_RI_Data_Summary_Rpt\fig_9_TCE_LowerSurf_Oct2019.mxd



Legend

- Upper Surficial Aquifer Monitoring Well Location
- Lower Surficial Aquifer Monitoring Well Location
- Black Mingo Aquifer Monitoring Well Location
- Upper Floodplain Aquifer Monitoring Well Location
- Lower Floodplain Aquifer Monitoring Well Location
- 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 (mg/L)
- Nitrate Inferred Isoconcentration Contour (mg/L)
- Nitrate Isoconcentration Contour at a Concentration Less Than the Maximum Contaminant Level (mg/L)

770	Nitrate Concentration in mg/L
NS	Not Sampled
EL	East Lagoon
NL	North Lagoon
SL	South Lagoon
SAN	Sanitary Lagoon
WL1	West Lagoon 1
WL2	West Lagoon 2

Note:

Based upon data collected in October 2019

N

0 200 400 Feet

1:4,800

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

Datum: North American 1983

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Extent of Nitrate in Groundwater

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
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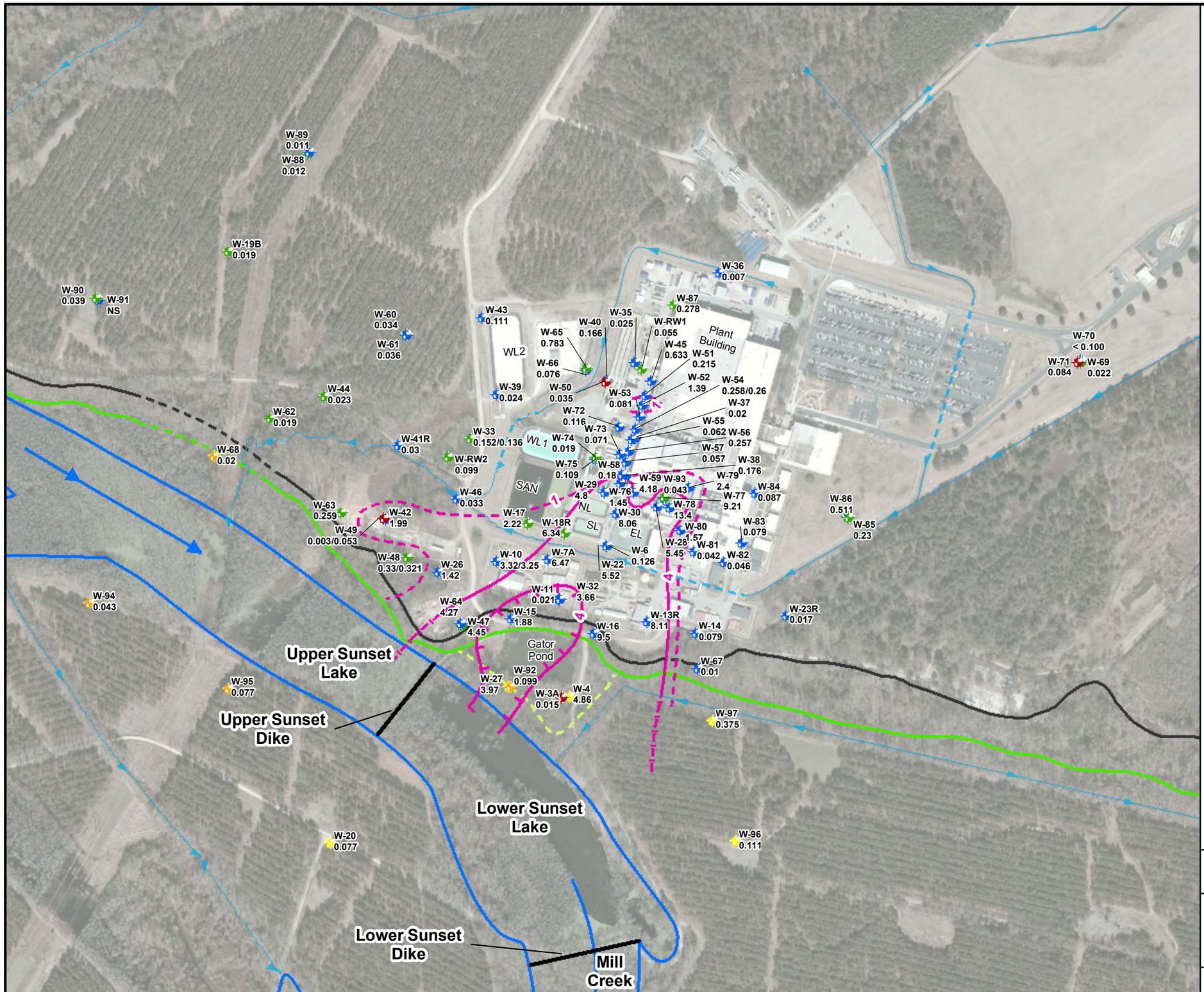
Path: M:\EnvDataViz\Westinghouse\mxd\2020_Interim_RI_Data_Summary_Rpt\fig_10_Nitrate_Oct2019.mxd



Legend

- Upper Surficial Aquifer Monitoring Well Location
- Lower Surficial Aquifer Monitoring Well Location
- Black Mingo Aquifer Monitoring Well Location
- Upper Floodplain Aquifer Monitoring Well Location
- Lower Floodplain Aquifer Monitoring Well Location
- 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 (mg/L)
- Fluoride Isoconcentration Contour at a Concentration Less Than the Maximum Contaminant Level (mg/L)
- Fluoride Inferred Isoconcentration Contour (mg/L)
- Fluoride Isoconcentration Contour Depression (mg/L)

13.4	Fluoride Concentration in mg/L
NS	Not Sampled
EL	East Lagoon
NL	North Lagoon
SL	South Lagoon
SAN	Sanitary Lagoon
WL1	West Lagoon 1
WL2	West Lagoon 2

Note:

Based upon data collected in October 2019

0 200 400 Feet

1:4,800

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

Datum: North American 1983

N

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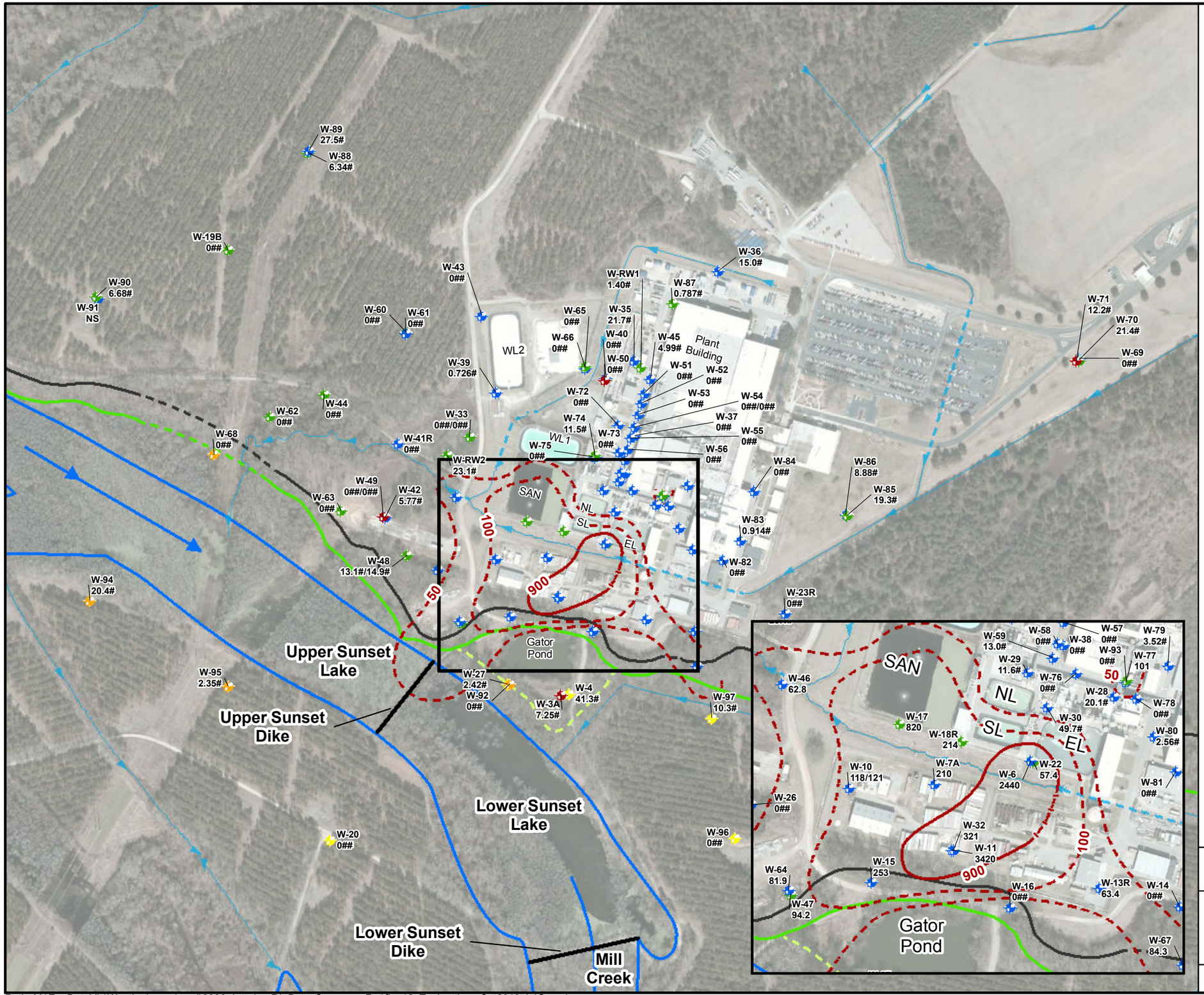
Extent of Fluoride in Groundwater

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60595649	LJG	June 2020 Rev. February 2021	**FIGURE 11**

Path: M:\EnvDataViz\Westinghouse\mxd\2020_Interim_RI_Data_Summary_Rpt\fig_11_Fluoride_Oct2019.mxd



Legend

- Black Mingo Monitoring Well
- Lower Floodplain Monitoring Well
- Upper Floodplain Monitoring Well
- Lower Surficial Monitoring Well Location
- Upper Surficial Aquifer Monitoring Well Location
- 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 (pCi/L)
- Tc-99 Inferred Isoconcentration Contour (pCi/L)
- Tc-99 Inferred Isoconcentration Contour at a Concentration Less Than the Maximum Contamminant Level (pCi/L)

321	Technetium-99 Concentration in pCi/L
#	Value is below minimum detectable concentration
##	Value is reported as a negative number
NS	Not Sampled
EL	East Lagoon
NL	North Lagoon
SL	South Lagoon
SAN	Sanitary Lagoon
WL1	West Lagoon 1
WL2	West Lagoon 2

Note:

Based upon data collected in October 2019

N

0 200 400 Feet

1:4,800

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

Datum: North American 1983

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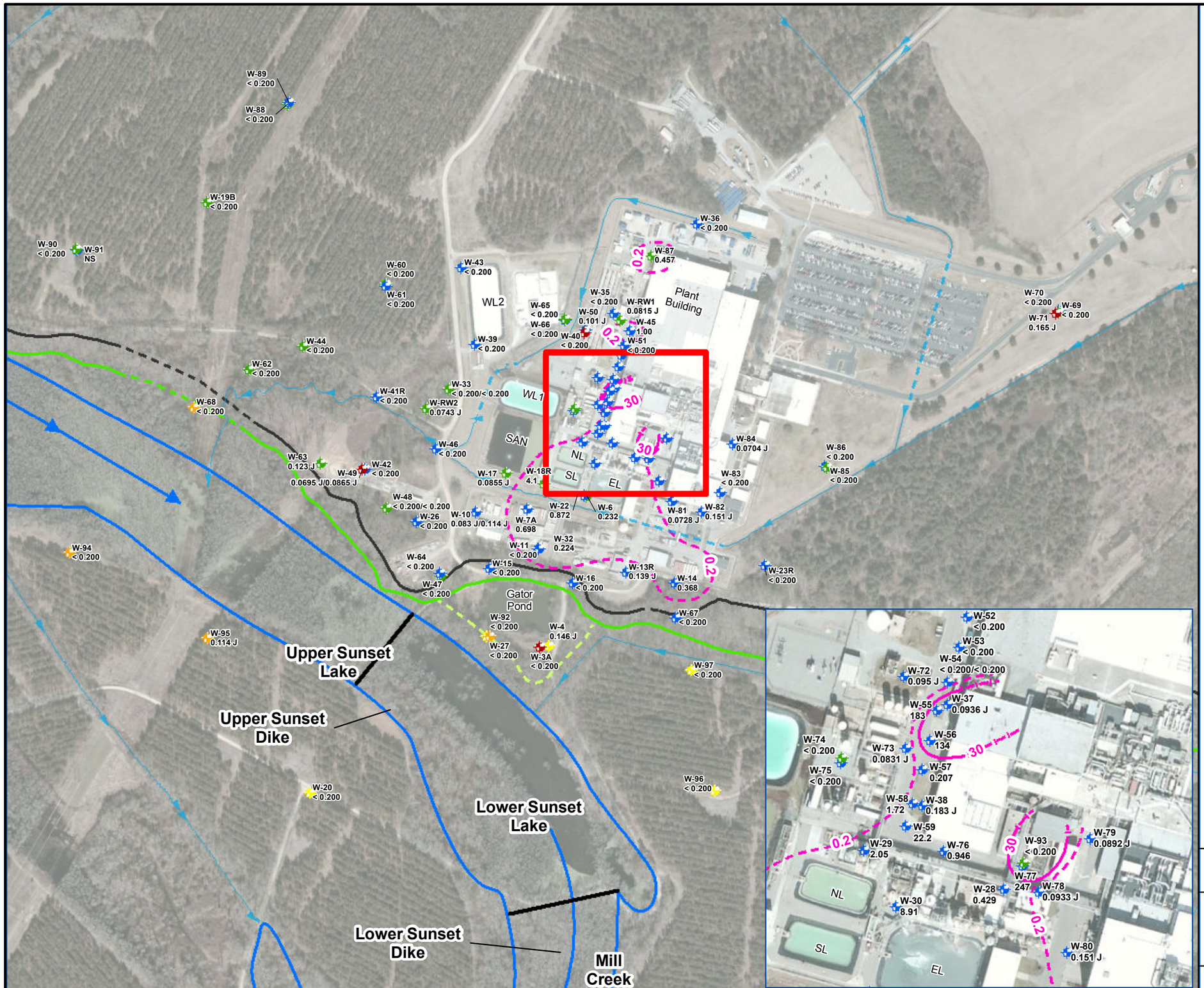
Extent of Technetium-99 in Groundwater

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60595649	RGM	June 2020 Rev. February 2021	FIGURE 12

Path: M:\EnvDataViz\Westinghouse\mxd\2020_Interim_RI_Data_Summary_Rpt\fig_12_Technetium_Oct2019_LJG.mxd



Legend

- Upper Surficial Aquifer Monitoring Well Location
- Lower Surficial Aquifer Monitoring Well Location
- Black Mingo Aquifer Monitoring Well Location
- Upper Floodplain Aquifer Monitoring Well Location
- Lower Floodplain Aquifer Monitoring Well Location
- 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 (µg/L)
- Uranium Inferred Isoconcentration Contour (µg/L)
- Uranium Isoconcentration Contour at a Concentration Less Than the Maximum Contaminant Level (µg/L)
- 247 Total Uranium in µg/L
- J Estimated result is less than the practical quantitation limit and greater than the method detection limit
- NS Not Sampled
- EL East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

Note:

Based upon data collected in October 2019

0 200 400 Feet

1:4,800

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

Datum: North American 1983

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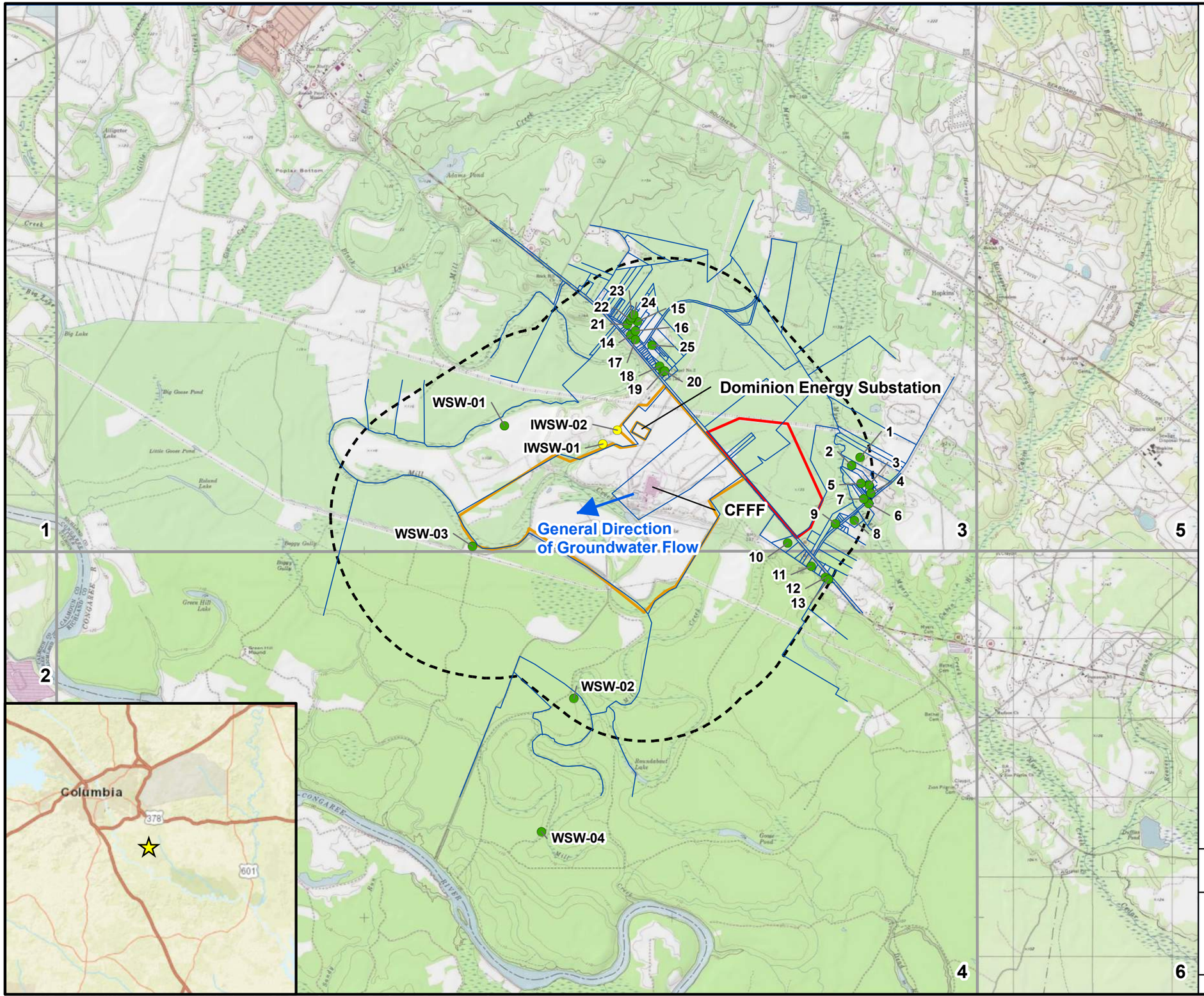
Extent of Uranium in Groundwater

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60595649	LJG	June 2020 Rev. February 2021	FIGURE 13

Path: M:\EnvDataViz\Westinghouse\mxd\2020_Interim_RI_Data_Summary_Rpt\fig_13_Uranium_Oct2019.mxd



Legend

- Inactive Private Wells
- Private Wells
- Parcel Lines
- 1 Mile Buffer of Facility Property Boundary
- Property Line
- SCRDI Bluff Road (Superfund Site)
- Topographic Quadrangle Boundary

ID	Topographic Quadrangle Name
1	Southwest Columbia
2	Gaston
3	Fort Jackson South
4	Saylors Lake
5	Congaree
6	Gadsden

0 2,000 4,000 Feet

1:48,000

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

Datum: North American 1983

Data Source: Esri/USGS

N

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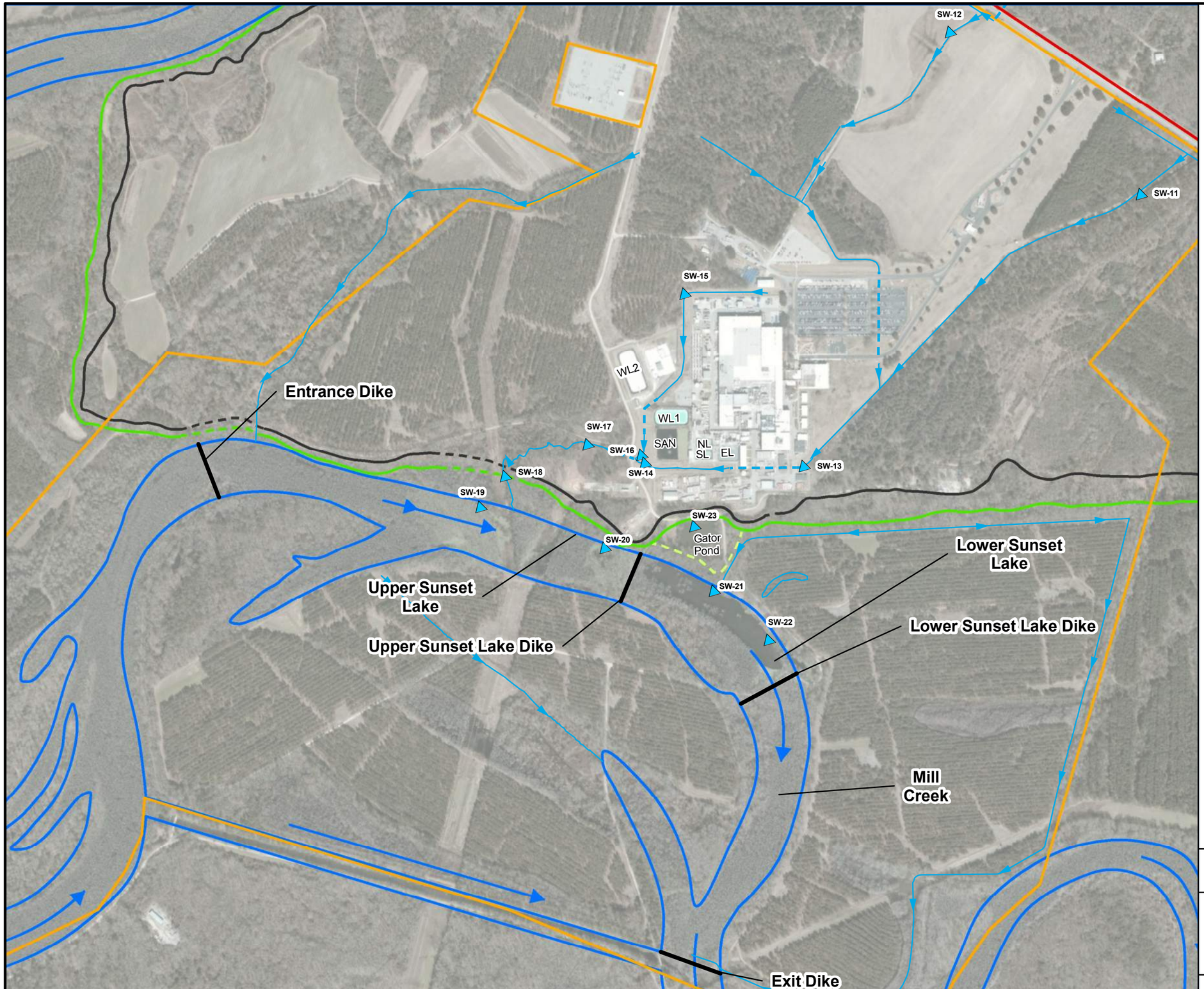
Private Water Supply Well Locations

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60595649	RGM	June 2020	**FIGURE 14**

Path: M:\EnvDataViz\Westinghouse\mxd\2020_Interim_RI_Data_Summary_Rpt\fig_14_PrivateWaterSupplyWells.mxd



Legend

- Surface Water Sample Location
- Ditch
- Culvert
- Mill Creek Flow Direction
- Dike Location
- Mill Creek
- Property Line
- 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 1
- WL2 West Lagoon 2

0 350 700 Feet

1:8,400

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

Datum: North American 1983

AECOM
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Columbia, SC 29203
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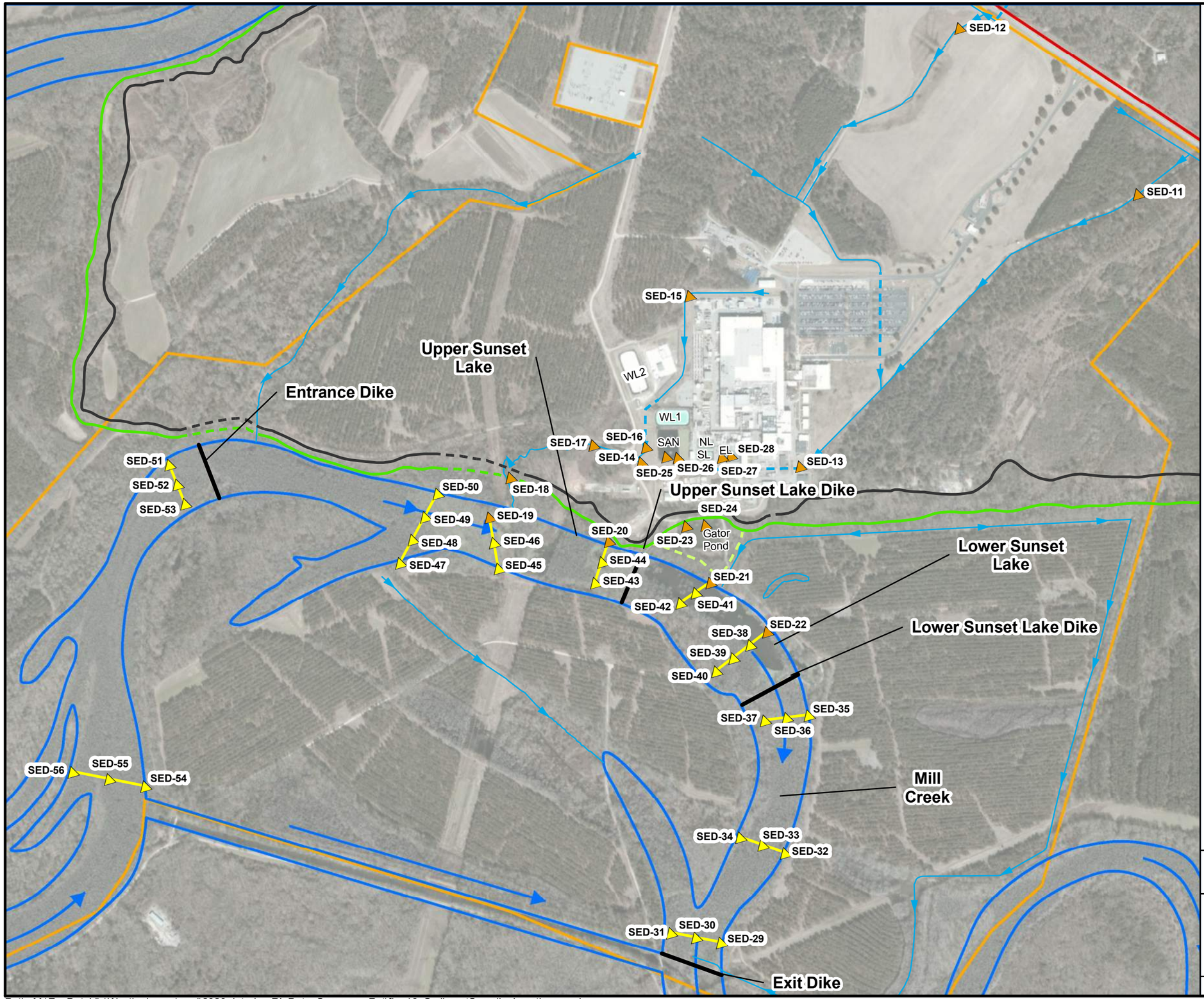
Surface Water Sample Locations

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60595649	RGM	June 2020	**FIGURE 15**

Path: M:\EnvDataViz\Westinghouse\mxd\2020_Interim_RI_Data_Summary_Rpt\fig_15_SurfaceWaterSamplingLocations.mxd



Legend

- Sediment Sample Collected in July 2019
- Sediment Sample Collected in November/Decemberr 2019
- Sediment Sampling Transects
- Ditch
- Culvert
- Mill Creek Flow Direction
- Dike Location
- Mill Creek
- Property Line
- 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 1
- WL2 West Lagoon 2

0 350 700 Feet

1:8,400

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

Datum: North American 1983

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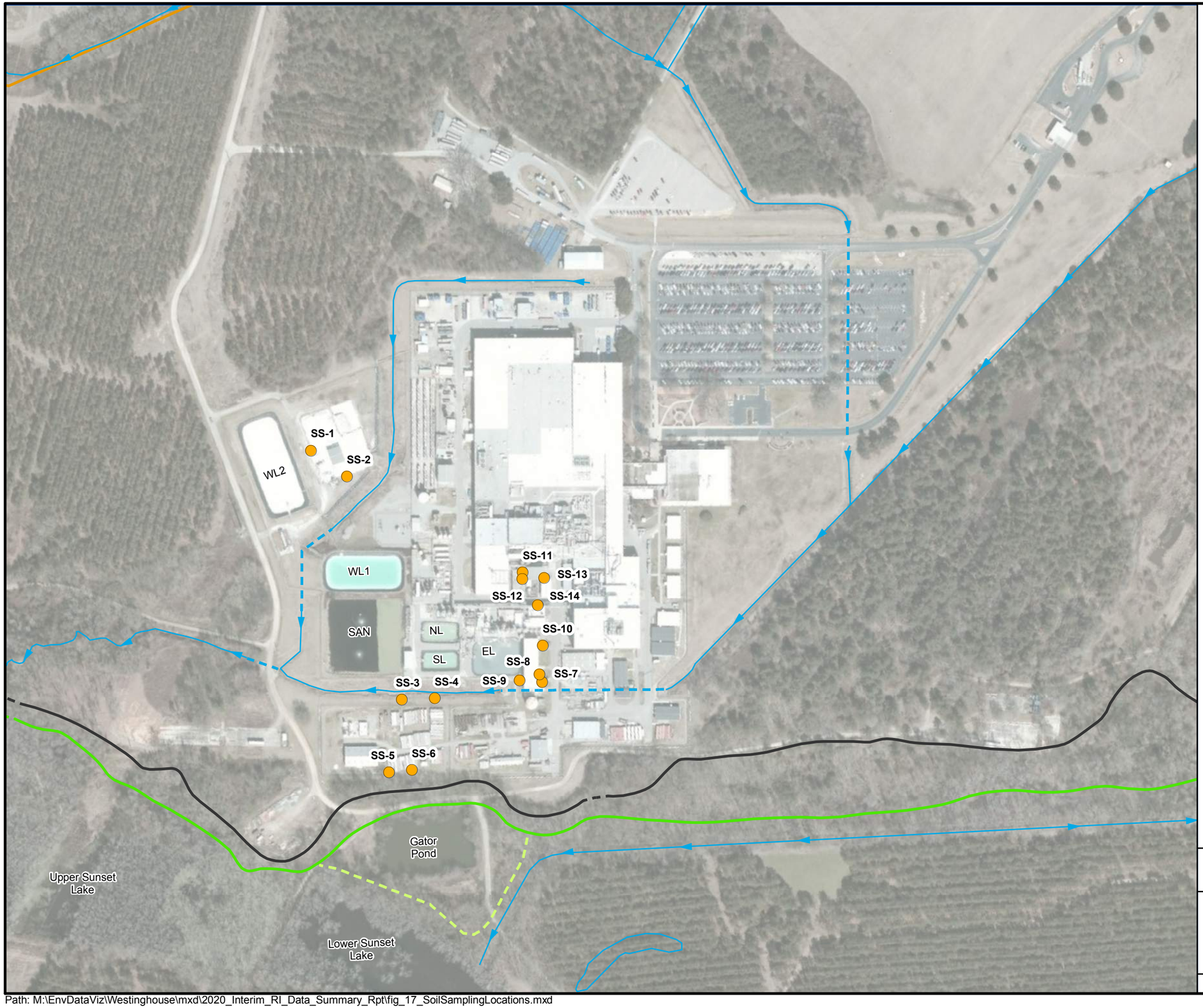
Sediment Sample Locations

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60595649	RGM	June 2020	**FIGURE 16**

Path: M:\EnvDataViz\Westinghouse\mxd\2020_Interim_RI_Data_Summary_Rpt\fig_16_SedimentSamplingLocations.mxd



Legend

- Soil Sampling Locations
- Ditch
- Culvert
- Property Line
- 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 1
- WL2 West Lagoon 2

0 150 300 Feet

1:3,600

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

Datum: North American 1983

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Technetium-99 Soil Sample Locations

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60595649	RGM	February 2020	**FIGURE 17**

Path: M:\EnvDataViz\Westinghouse\mxd\2020_Interim_RI_Data_Summary_Rpt\fig_17_SoilSamplingLocations.mxd

Table A1 - October 2019 Groundwater Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well	W-RW1	W-RW2	W-3A	W-4	W-6	W-7A	W-10	W-10	W-11	W-13R	W-14	W-15	W-16	W-17	W-18R	W-19B	W-20	W-22	W-23R	W-24	W-25	W-26	W-27	W-28	W-29	W-30	W-32	W-33	W-33	W-35	W-36	W-37	W-38
			Date	10/3/2019	10/11/2019	10/10/2019	10/11/2019	10/7/2019	10/9/2019	10/9/2019	10/9/2019	10/8/2019	10/8/2019	10/18/2019	10/21/2019	10/21/2019	10/21/2019	10/7/2019	10/21/2019	10/15/2019	10/7/2019	10/18/2019	10/11/2019	10/16/2019	10/14/2019	10/10/2019	10/7/2019	10/7/2019	10/7/2019	10/8/2019	10/17/2019	10/17/2019	10/2/2019	10/2/2019	10/2/2019	10/4/2019
			Type	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N
Group	Analyte	MCL	Units																																	
Radiological	Alpha particles	15**	pCi/L	2.51 #	2.00 #	2.36 #	3.36 #	9.09	6.35	3.19	2.19 #	7.82	2.15 #	4.27	0 ##	0.421 #	2.86 #	9.79 #	2.26 #	0.912 #	2.92 #	0 ##	0 ##	10.1	0.697 #	0 ##	3.14 #	2.25 #	7.57	7.17	2.89 #	2.51 #	0.793 #	0.270 #	1.75 #	2.54 #
Radiological	Beta particles	50**	pCi/L	3.98	11.9	1.15 #	19.4	1370	114	81.3	76.2	2450	53.2	35.6	174	10.6	538	150	0 ##	3.22 #	29.6	1.68 #	2.51 #	7.27	12.5	5.10	8.26	7.67	20.8	175	7.78	5.81	3.54 #	0 ##	0 ##	2.43 #
Radiological	Tritium		pCi/L		270 #				0 ##	32.7 #	165 #		116 #		0 ##	12.8 #		210 #			115 #		67.8 #		38.6 #			116 #	443 #	81.8 #	0 ##	137 #				
Radiological	Technetium-99	900	pCi/L	1.40 #	23.1 #	7.25 #	41.3#	2440	210	118	121	3420	63.4	0 ##	253	0 ##	820	214	0 ##	0 ##	57.4	0 ##	13.0 #	0 ##	0 ##	2.42 #	20.1 #	11.6 #	49.7#	321	0 ##	0 ##	21.7 #	15.0 #	0 ##	0 ##
Radiological	Uranium-233/234		pCi/L	0.126 #	0.252 #	0.287 #	0.313	0.372	0.409	0.0993 #	0.0991 #	0.205 #	0.246 #	0.0696 #	0.0108 #	0.168 #	0.209 #	1.53	0.197 #	0.0228 #	0.905	0.0833 #	0.136 #	0.195 #	0.0497 #	0.0588 #	0.672	1.20	11.5	0.322	0.102 #	0.0758 #	0.304	0.148 #	0.103 #	0.106 #
Radiological	Uranium-235/236		pCi/L	0.139 #	0.107 #	0.0414 #	0.124 #	0.0443 #	0.0909 #	0.0935 #	0.219	0.0769 #	0.0418 #	0 ##	0.162 #	0.0107 #	0.0726 #	0.266	0.125 #	0.0276 #	0.136 #	0 ##	0.0816 #	0.0748 #	0.0344 #	0.198	0 #	0 #	0.914	0 ##	0.0445 #	0.0446 #	0.0450 #	0 ##	0 ##	0 #
Radiological	Uranium-238		pCi/L	0.169 #	0.0958 #	0.145 #	0.392	0.153 #	0.259	0.180 #	0.212	0.133 #	0.221	0.139 #	0.0531 #	0.0718 #	0.0507 #	1.17	0.0559 #	0.0995 #	0.322	0.0221 #	0.0660 #	0.269	0.0381 #	0.171 #	0.119 #	0.972	3.31	0.191	0.0274 #	0.0361 #	0.109	0 ##	0.0277 #	0.128
Radiological	Percent Uranium-235		%	0 #	0 #	0 #	0 #	0 #	0 #	0 #	13.8	0 #	0 #	0 #	0 #	0 #	0 #	3.41	0 #	0 #	0 #	0 #	0 #	0 #	0 #	15.2	0 #	0 #	4.12	0 #	0 #	0 #	0 #	0 #	0 #	0 #
Radiological	Uranium-234		ug/L	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Radiological	Uranium-235		ug/L	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	0.035 J	< 0.070	< 0.070	0.0177 J	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	0.026 J	0.199	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070
Radiological	Uranium-238		ug/L	0.0815 J	0.0743 J	< 0.200	0.146 J	0.232	0.698	0.083 J	0.114 J	< 0.200	0.139 J	0.368	< 0.200	< 0.200	0.0855 J	4.06	< 0.200	< 0.200	0.854	< 0.200	< 0.200	0.295	< 0.200	< 0.200	0.429	2.03	8.71	0.224	< 0.200	< 0.200	< 0.200	< 0.200	0.0936 J	0.183 J
Radiological	Total Uranium Isotopes	30	ug/L	0.0815 J	0.0743 J	< 0.200	0.146 J	0.232	0.698	0.083 J	0.114 J	< 0.200	0.139 J	0.368	< 0.200	< 0.200	0.0855 J	4.10	< 0.200	< 0.200	0.872	< 0.200	< 0.200	0.295	< 0.200	< 0.200	0.429	2.05	8.91	0.224	< 0.200	< 0.200	< 0.200	< 0.200	0.0936 J	0.183 J
Chemical	Fluoride	4	mg/L	0.055	0.099	0.015	4.86	0.126	6.47	3.32	3.25	0.021	8.11	0.079	1.88	9.5	2.22	6.34	0.019	0.077	5.52	0.017	0.025	0.126	1.42	3.97	5.45	4.8	8.06	3.66	0.152	0.136	0.025	0.007	0.02	0.176
Chemical	Nitrate as N	10	mg/L	2.1	20	< 0.020	0.023	210	390	37	37	56	18	0.061	35	3.2	16	770	3.8	< 0.020	100	0.71	< 0.020	0.067	3.2	< 0.020	6.3	11	120	170	13	13	3.2	0.11	3.5	4.3
Chemical	Ammonia as N		mg/L	0.0129	0.0581	0.0256	0.404	134	48.5	6.46	6.62	4.09	31.5	4.26	12.6	13.3	5.79	126	0.0146	0.0632	61.8	0.0154	0.0283	1.91	1.75	6.29	0.884	22.4	1.83	47.9	0.0134	0.0189	0.0075	0.0089	0.0088	0.0141
Metals	Aluminum		ug/L	147 J	120 J	< 200	105 J	< 200	< 200	559	551	< 200	831	< 200	75 J	827	< 200	< 200	< 200	< 200	1610	< 200	< 200	486	326	< 200	981	< 200	356	< 200	< 200	< 200	< 200	< 200	< 200	80.9 J
Metals	Antimony	6	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	4.52 J	3.64 J	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	4.02 J	< 20.0	< 20.0	< 20.0	3.87 J	4.6 J
Metals	Arsenic	10	ug/L	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	5.32 J	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0
Metals	Barium	2000	ug/L	48.2	106	5.92	99.1	496	595	191	186	658	93.3	799	304	135	164	713	84.8	181	46.3	53.8	12.1	94	197	220	44.1	158	234	484	181	201	62.5	34.9	51.6	96.7
Metals	Beryllium	4	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	1.89 J	< 5.00	< 5.00	1.28 J	< 5.00	< 5.00	< 5.00	< 5.00	1.76 J	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	1.03 J	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Metals	Cadmium	5	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	3.73 J	< 5.00	1.94 J	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Metals	Calcium		ug/L	4600	16600	490	12100	71400	99500	25100	24400	27900	20500	66000	23700	12500	16300	222000	4330	9740	55300	1380	4310	12600	16100	10700	10500	18800	90700	40600	12700	14100	16000	1430	9960	7850
Metals	Chromium	100	ug/L	3.46 J	< 10.0	< 10.0	< 10.0	< 10.0	4.46 J	< 10.0	< 10.0	< 10.0	1.04 J	1.94 J	< 10.0	< 10.0	< 10.0	< 10.0	2.27 J	< 10.0	1.07 J	1.96 J	< 10.0	1.95 J	< 10.0	2.06 J	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	4.22 J	4.29 J
Metals	Cobalt		ug/L	2.5 J	4.14 J	1.21 J	1.19 J	6.41	7.56	2.26 J	2.53 J	2.05 J	7.87	24	4.38 J	3.32 J	6.53	1.16 J	< 5.00	3.69 J	7.89	< 5.00	< 5.00	< 5.00	2.93 J	< 5.00	7.88	< 5.00	1.24 J	< 5.00	< 5.00	< 5.00	4.39 J	< 5.00	< 5.00	1.84 J
Metals	Copper	1300	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	58.6	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	3.83 J	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	6.02 J
Metals	Iron		ug/L	134	< 100	562	4930	< 100	< 100	< 100	< 100	< 100	55.1 J	11900	< 100	164	< 100	< 100	< 100	229	65.8 J	< 100	626	19700	< 100	29000	56.3 J	< 100	< 100	< 100	< 100	< 100	< 100	460	< 100	< 100
Metals	Lead	15	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 100	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	4.1 J	4.81 J	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
Metals	Magnesium		ug/L	1580	3500	251 J	5100	21600	24700	7800	7630	13200	7990	18900	9330	4230	5030	36000	1520	6900	9890	852	2260	5040	5570	13900	995	5250	4230	12000	5160	5620	4310	437	5860	4650
Metals	Manganese		ug/L	38	90.3	8.71 J	539	142	824	440	427	83.5	405	3440	230	427	282	229	< 10.0	420	1280	7.36 J	2.37 J	272	239	5370	23	32.7	73.2	363	4.55 J	5.08 J	5.29 J	54.9	< 10.0	48.5
Metals	Mercury	2	ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.084 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.219
Metals	Nickel		ug/L	4480	7.34	1.85 J	2.6 J	6.89	17.5	10.3	10.5	10.8	9.39	2.07 J	5.84	4.08 J	8.33	12	1.95 J	2.29 J	13.4	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	2.72 J	< 5.00	18.7	4.04 J	4.74 J	5.71	977	< 5.00	< 5.00	271
Metals	Potassium		ug/L	1570	2500	664	5990	13400	11500	8800	8700	6280	9980	17500	8550	12900	7440	11400	1510	666	7030	645	934	2500	8010	3850	8120	4500	7800	9130	2780	2970	3320	1190	2230	2640
Metals	Selenium	50	ug/L	< 30.0	7.61 J	< 30.0	6.33 J	12.9 J	14.9 J	9.01 J	7.72 J	8.48 J	< 30.0	6.14 J	< 30.0	< 30.0	< 30.0	23.7 J	< 30.0	< 30.0	9.61 J	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	8.76 J	20.3 J	< 30.0	< 30.0	13 J	< 30.0	8.99 J	12.8 J
Metals	Silver		ug/L	1.14 J	< 5.00	1.22 J	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	1.6 J	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	1.25 J	< 5.00	1.56 J	1.68 J	1.02 J	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	1.15 J	< 5.00	< 5.00
Metals	Sodium		ug/L	5040	19700	2410	45100	124000	447000	79300	78100	36200	50400	15700	38900	20000	35000	948000	7420	8600	159000	8150	2420	8090	21300	22400	137000	32900	147000	221000	14400	15300	8180	5450	13300	21300
Metals	Thallium	2	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
Metals	Vanadium		ug/L	< 5.00	< 5.00	< 5.00	2.36 J	4.07 J	5.11	2.56 J	2.67 J	< 5.00	2.81 J	< 5.00	2.03 J	2.69 J	8.37	6.59	< 5.00	< 5.00	1.92 J	< 5.00	< 5.00	9.28	1.26 J	< 5.00	2.32 J	8.16	2.25 J	2.99 J	< 5.00	< 5.00	< 5.00	1.72 J	< 5.00	< 5.00
Metals	Zinc		ug/L	7.63 J	7.87 J	8.59 J	7.9 J	13.9 J	4.69 J	7.18 J	41.1	45	5.79 J	11.5 J	10.7 J	19.1 J	29	26.4	7 J	7.63 J	47	4.69 J	4.23 J	16 J	< 20.0	4.96 J	10.3 J	4.5 J	12 J	7.24 J	27.1	28.3	12.2 J	9.36 J	12.9 J	10.9 J
SVOCs	1,1'-Biphenyl		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2,4,5-Trichlorophenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2,4,6-Trichlorophenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2,4-Dichlorophenol		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	2,4-Dimethylphenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2,4-Dinitrophenol		ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SVOCs	2,4-Dinitrotoluene		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	2,6-Dinitrotoluene		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	2-Chloronaphthalene		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2-Chlorophenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2-Methylnaphthalene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	2-Methylphenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2-Nitroaniline		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	2-Nitrophenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	3,3'-Dichlorobenzidine		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	3-Nitroaniline		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	4,6-Dinitro-2-methylphenol		ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SVOCs	4-Bromophenyl phenyl ether		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	4-Chloro-3-methylphenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	4-Chloroaniline		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	4-Chlorophenyl phenyl ether		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	4-Methylphenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	4-Nitroaniline		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	4-Nitrophenol		ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SVOCs	Acenaphthene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Acenaphthylene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Acetophenone		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Anthracene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Atrazine	3	ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Benz(a)anthracene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Benzaldehyde		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	Benzo(a)pyrene	0.2	ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Benzo(b)fluoranthene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Benzo(g,h,i)perylene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Benzo(k)fluoranthene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Bis(2-chloroethoxy)methane		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Bis(2-chloroethyl)ether		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Bis(2-chloroisopropyl)ether		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Bis(2-ethylhexyl)phthalate	6	ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Butyl benzyl phthalate		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0

Table A1 - October 2019 Groundwater Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well	W-RW1	W-RW2	W-3A	W-4	W-6	W-7A	W-10	W-10	W-11	W-13R	W-14	W-15	W-16	W-17	W-18R	W-19B	W-20	W-22	W-23R	W-24	W-25	W-26	W-27	W-28	W-29	W-30	W-32	W-33	W-33	W-35	W-36	W-37	W-38
			Date	10/3/2019	10/11/2019	10/10/2019	10/11/2019	10/7/2019	10/9/2019	10/9/2019	10/9/2019	10/8/2019	10/8/2019	10/18/2019	10/21/2019	10/21/2019	10/21/2019	10/7/2019	10/21/2019	10/15/2019	10/7/2019	10/18/2019	10/11/2019	10/16/2019	10/14/2019	10/10/2019	10/7/2019	10/7/2019	10/7/2019	10/8/2019	10/17/2019	10/17/2019	10/2/2019	10/2/2019	10/2/2019	10/4/2019
			Type	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N
Group	Analyte	MCL	Units																																	
SVOCs	Caprolactam		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	Carbazole		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Chrysene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Di-n-butyl phthalate		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 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	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Dibenz(a,h)anthracene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Dibenzofuran		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Diethyl phthalate		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 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	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Fluoranthene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Fluorene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Hexachlorobenzene	1	ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Hexachlorobutadiene		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Hexachlorocyclopentadiene	50	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SVOCs	Hexachloroethane		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Indeno(1,2,3-cd)pyrene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Isophorone		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	N-Nitrosodi-n-propylamine		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	N-Nitrosodiphenylamine		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Naphthalene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Nitrobenzene		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Pentachlorophenol	1	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SVOCs	Phenanthrene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Phenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Pyrene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
VOCs	2-Butanone		ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	2-Hexanone		ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	4-Methyl-2-pentanone		ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Acetone		ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 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	< 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
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	< 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
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	< 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
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	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 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	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	< 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
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	< 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
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	< 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
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	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 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	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.9	< 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
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	< 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
VOCs	cis-1,2-Dichloroethene	70	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	2.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.7	< 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	< 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
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	< 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
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	< 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
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	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 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	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	< 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
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	< 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
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	< 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
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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 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	< 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
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	< 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
VOCs	Tetrachloroethene	5	ug/L	1.4	140	< 1.0	< 1.0	16	1.9	< 1.0	< 1.0	1.4	15	1.1	12	7.8	4.3	3.5	150	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.4	300	330	2.6	< 1.0	< 1.0	1.8
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	< 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
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	< 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
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	< 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
VOCs	Trichloroethene	5	ug/L	< 1.0	8.3	< 1.0	< 1.0	2.5	< 1.0	< 1.0	< 1.0	< 1.0	1.4	< 1.0	2.0	2.2	< 1.0	< 1.0	2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	38	24	< 1.0	< 1.0	< 1.0	11
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	< 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
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	< 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
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	< 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

Table A1 - October 2019 Groundwater Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well	W-39	W-40	W-41R	W-42	W-43	W-44	W-45	W-46	W-47	W-48	W-48	W-49	W-49	W-50	W-51	W-52	W-53	W-54	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
			Date	10/18/2019	10/15/2019	10/14/2019	10/22/2019	10/18/2019	10/14/2019	10/2/2019	10/21/2019	10/17/2019	10/21/2019	10/21/2019	10/24/2019	10/24/2019	10/15/2019	10/3/2019	10/3/2019	10/3/2019	10/4/2019	10/4/2019	10/4/2019	10/4/2019	10/3/2019	10/4/2019	10/5/2019	10/17/2019	10/17/2019	10/22/2019	10/21/2019	10/17/2019	10/17/2019	10/17/2019	10/18/2019	10/22/2019
			Type	N	N	N	N	N	N	N	N	N	N	FD	N	FD	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Group	Analyte	MCL	Units																																	
Radiological	Alpha particles	15**	pCi/L	1.22 #	0.796 #	8.93	0.753 #	0.159 #	3.47 #	4.37	0.656 #	1.60 #	0.460 #	0 ##	0.196 #	1.80 #	3.48 #	0.544 #	0 ##	1.61 #	1.55 #	1.53 #	438	264	0.202 #	4.21	44.4	0.200 #	1.31 #	0 ##	1.22 #	4.11 #	1.22 #	0 ##	0.945 #	0.922 #
Radiological	Beta particles	50**	pCi/L	8.84	3.44 #	14.3	3.16 #	3.16 #	0.283 #	16.6	40.4	61.6	9.32	7.64	4.34 #	0.719 #	0.0720 #	3.56	1.61 #	1.72 #	1.96 #	0.741 #	77.3	54.5	3.09 #	2.43 #	17.4	1.38 #	0.862 #	4.85	3.32 #	70.3	7.14	3.33 #	65.3	2.33 #
Radiological	Tritium		pCi/L	174 #		223 #		4.14 #	0 ##			137 #	87.4 #	190 #																						
Radiological	Technetium-99	900	pCi/L	0.726 #	0 ##	0 ##	5.77 #	0 ##	0 ##	4.99 #	62.8	94.2	13.1 #	14.9 #	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	13.0 #	0 ##	0 ##	0 ##	0 ##	81.9	0 ##	0 ##	84.3	0 ##
Radiological	Uranium-233/234		pCi/L	0 ##	0.0131 #	0.0652 #	0 ##	0 ##	0.0335 #	0.897	0.317 #	0 ##	0.0449 #	0.231 #	0.154 #	0.432	0.279 #	0.0146 #	0.121 #	0.0359 #	0.0685 #	0.101 #	290	192	0 ##	2.10	38.0	0.0248 #	0 ##	0.0178 #	0.266 #	0.0871 #	0 ##	0.0479 #	0 ##	0.204 #
Radiological	Uranium-235/236		pCi/L	0.00196 #	0.0454 #	0.0336 #	0.110 #	0.0698 #	0.0360 #	0 ##	0 ##	0 ##	0.106 #	0.0663 #	0.0321 #	0.0321 #	0.0468 #	0.0799 #	0.115	0 ##	0 ##	0.0554	16.3	9.18	0 #	0.104 #	2.02	0.0418 #	0.0596 #	0.0998 #	0.0677 #	0.0256 #	0 ##	0.00220 #	0 #	0.0452 #
Radiological	Uranium-238		pCi/L	0.149 #	0.129 #	0.0757 #	0.0468 #	0.0475 #	0.0107 #	0.477	0.0325 #	0 ##	0.0109 #	0.00988 #	0.0380 #	0.0260 #	0.201 #	0 ##	0.00124 #	0 ##	0.0126 #	0.0560 #	60.5	37.9	0.0165 #	0.331 #	8.26	0.00356 #	0.0254 #	0.142 #	0.264 #	0.0239 #	0.0898 #	0.0800 #	0.0343 #	0.0102 #
Radiological	Percent Uranium-235		%	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	93.5	0 #	0 #	13.3	4.01	3.63	0 #	0 #	3.66	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #
Radiological	Uranium-234		ug/L	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.052	0.034 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Radiological	Uranium-235		ug/L	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	0.0216 J	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	5.79	4.19	< 0.070	0.049 J	0.659	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070
Radiological	Uranium-238		ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.983	< 0.200	< 0.200	< 0.200	< 0.200	0.0695 J	0.0865 J	0.101 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	177	130	0.207	1.67	21.6	< 0.200	< 0.200	< 0.200	0.123 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200
Radiological	Total Uranium Isotopes	30	ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	1.00	< 0.200	< 0.200	< 0.200	< 0.200	0.0695 J	0.0865 J	0.101 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	183	134	0.207	1.72	22.2	< 0.200	< 0.200	< 0.200	0.123 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200
Chemical	Fluoride	4	mg/L	0.024	0.166	0.03	1.99	0.111	0.023	0.633	0.033	4.45	0.33	0.321	0.003	0.053	0.035	0.215	1.39	0.081	0.258	0.26	0.062	0.257	0.057	0.18	4.18	0.034	0.036	0.019	0.259	4.27	0.783	0.076	0.01	0.02
Chemical	Nitrate as N	10	mg/L	73	4.3	65	4.7	6.3	2.4	0.093	7.8	42	5.3	4.9	< 0.020	< 0.020	< 0.020	0.11	1.3	0.57	2.8	2.8	3.7	4.2	4.6	9.7	14	0.035	2.5	4.0	0.34	42	0.64	1.5	14	3.0
Chemical	Ammonia as N		mg/L	0.0218	0.0203	0.0299	0.806	0.0198	0.0186	2.08	0.0129	16.5	0.0446	0.0422	0.0151	0.0097	0.0185	0.256	0.0212	0.0397	0.0037	0.0125	0.0108	0.009	0.0155	18.6	12.3	0.0251	0.0274	0.0162	0.023	16	0.0489	0.0336	1.31	0.0143
Metals	Aluminum		ug/L	< 200	< 200	< 200	1150	< 200	< 200	90.5 J	< 200	571	70.4 J	87.4 J	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	785	< 200	< 200	< 200	< 200
Metals	Antimony	6	ug/L	8.79 J	8.02 J	6.21 J	< 20.0	3.76 J	< 20.0	8.1 J	< 20.0	5.33 J	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	7.32 J	< 20.0	4.12 J	< 20.0	< 20.0	7.39 J	4.3 J	7.38 J	4.22 J	< 20.0	5.44 J	< 20.0	< 20.0	8.91 J	< 20.0	< 20.0	< 20.0	< 20.0
Metals	Arsenic	10	ug/L	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	5.4 J	< 30.0	< 30.0	< 30.0	< 30.0
Metals	Barium	2000	ug/L	324	16.8	655	101	159	151	28.8	144	260	97.1	99.1	10.5	11.6	8.87	57	59.9	78.2	61.2	61.8	41.6	57.1	73.4	167	210	121	216	75.7	70.9	394	93.7	68.5	306	92.9
Metals	Beryllium	4	ug/L	< 5.00	< 5.00	< 5.00	3.32 J	< 5.00	< 5.00	< 5.00	1.26 J	2.32 J	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	2.35 J	< 5.00	< 5.00	< 5.00	< 5.00
Metals	Cadmium	5	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Metals	Calcium		ug/L	41500	16700	34600	3980	8770	5460	35100	8640	22300	5690	5870	729	790	733	11600	11100	15600	11900	12100	8400	11300	10600	17500	16400	6900	10400	4420	12600	22900	8060	6730	11500	4530
Metals	Chromium	100	ug/L	< 10.0	< 10.0	1.48 J	< 10.0	1.28 J	3.15 J	< 10.0	< 10.0	1.24 J	< 10.0	1.11 J	9.3 J	14.7	< 10.0	< 10.0	1.41 J	< 10.0	2.36 J	2.48 J	5.03 J	4.16 J	3.38 J	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	1.14 J	< 10.0	< 10.0	< 10.0	2.69 J
Metals	Cobalt		ug/L	1.52 J	< 5.00	< 5.00	3.22 J	< 5.00	< 5.00	2.04 J	1.16 J	7.85	< 5.00	< 5.00	1.25 J	1.19 J	2.36 J	3.06 J	6.28	10.6	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	1.82 J	5.12	< 5.00	< 5.00	14.1	1.19 J	< 5.00	4.77 J	< 5.00
Metals	Copper	1300	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	109	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
Metals	Iron		ug/L	< 100	< 100	< 100	< 100	< 100	75.8 J	34900	< 100	< 100	< 100	< 100	817	1010	443	40100	2400	5620	1190	1230	< 100	< 100	30.6 J	< 100	< 100	3810	150	< 100	3440	< 100	3680	< 100	< 100	30.1 J
Metals	Lead	15	ug/L	< 20.0	5.76 J	< 20.0	< 20.0	< 20.0	5.46 J	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	3.41 J	5.14 J	< 20.0	< 20.0	5.51 J	< 20.0	< 20.0	< 20.0	< 20.0
Metals	Magnesium		ug/L	7620	2630	11000	1970	3590	3060	7930	4980	8890	2230	2300	296 J	333	335	3830	3740	6580	4910	4970	5170	5480	5240	6050	6590	2210	3310	1660	1770	9060	2160	2400	4130	1850
Metals	Manganese		ug/L	43.4	< 10.0	5.52 J	343	5.24 J	8.67 J	316	8.93 J	986	26.9	28.8	8.85 J	9.89 J	10.4	822	696	376	29.9	32.1	3.76 J	7.66 J	18.9	208	62.8	76.8	330	4.32 J	259	662	193	15.4	16.5	2.94 J
Metals	Mercury	2	ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.284	0.189 J	< 0.200
Metals	Nickel		ug/L	< 5.00	< 5.00	< 5.00	1.62 J	< 5.00	< 5.00	262	6.13	3.35 J	< 5.00	< 5.00	3.11 J	3.61 J	3.06 J	28.2	122	2.91 J	144	127	17.3	4.73 J	25.6	96.7	10.3	< 5.00	4.81 J	2.04 J	< 5.00	3.94 J	< 5.00	< 5.00	2.64 J	2.3 J
Metals	Potassium		ug/L	3230	2820	5240	3690	2650	2850	7530	2670	9220	2940	3030	607	732	670	2700	2430	3570	2590	2610	2130	2710	2740	4300	6120	2400	3850	1630	5280	8640	2200	1990	4250	1410
Metals	Selenium	50	ug/L	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	10.5 J	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	7.27 J	9.06 J	13.1 J	15.4 J	9.89 J	8.58 J	11.1 J	9.88 J	8.65 J	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0
Metals	Silver		ug/L	< 5.00	1.17 J	1.08 J	< 5.00	1.05 J	2.18 J	< 5.00	< 5.00	1.53 J	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	1.08 J	< 5.00	1.08 J	< 5.00	1.75 J	< 5.00	< 5.00	2.5 J	< 5.00	< 5.00	< 5.00	< 5.00
Metals	Sodium		ug/L	106000	2210	66600	3770	3020	5570	390000	18700	53900	10100	10400	3660	3900	3180	8610	30900	10700	10900	10800	11400	14000	12300	18600	41800	7130	4000	6540	73900	49100	20900	5430	21900	6980
Metals	Thallium	2	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
Metals	Vanadium		ug/L	< 5.00	1.25 J	< 5.00	< 5.00	< 5.00	< 5.00	1.33 J	< 5.00	4.29 J	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	2.04 J	6.31	< 5.00	< 5.00	< 5.00	< 5.00	1.35 J	< 5.00	< 5.00	< 5.00	< 5.00
Metals	Zinc		ug/L	6.41 J	< 20.0	7.38 J	4.36 J	4.53 J	< 20.0	12.6 J	10.7 J	4.27 J	4.74 J	5.1 J	8.09 J	9.19 J	11.8 J	6.65 J	11.6 J	15.2 J	6.15 J	6.82 J	7.38 J	6.45 J	9.15 J	5.83 J	7.86 J	4.33 J	6.41 J	6.66 J	4.57 J	< 20.0	3.98 J	4.35 J	6.72 J	6.54 J
SVOCs	1,1'-Biphenyl		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	4.2	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	7.4	< 4.0	4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2,4,5-Trichlorophenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2,4,6-Trichlorophenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2,4-Dichlorophenol		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	2,4-Dimethylphenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2,4-Dinitrophenol		ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SVOCs	2,4-Dinitrotoluene		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	2,6-Dinitrotoluene		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	2-Chloronaphthalene		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2-Chlorophenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2-Methylnaphthalene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	12	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	2-Methylphenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2-Nitroaniline		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	2-Nitrophenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	3,3'-Dichlorobenzidine		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	3-Nitroaniline		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	4,6-Dinitro-2-methylphenol		ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SVOCs	4-Bromophenyl phenyl ether		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	4-Chloro-3-methylphenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	4-Chloroaniline		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	4-Chlorophenyl phenyl ether		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	4-Methylphenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	4-Nitroaniline		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	4-Nitrophenol		ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SVOCs	Acenaphthene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	1.5	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Acenaphthylene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Acetophenone		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Anthracene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Atrazine	3	ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Benz(a)anthracene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Benzaldehyde		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	Benzo(a)pyrene	0.2	ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Benzo(b)fluoranthene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Benzo(g,h,i)perylene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Benzo(k)fluoranthene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Bis(2-chloroethoxy)methane		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Bis(2-chloroethyl)ether		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Bis(2-chloroisopropyl)ether		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Bis(2-ethylhexyl)phthalate	6	ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Butyl benzyl phthalate		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0

Table A1 - October 2019 Groundwater Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well	W-39	W-40	W-41R	W-42	W-43	W-44	W-45	W-46	W-47	W-48	W-48	W-49	W-49	W-50	W-51
			Date	10/18/2019	10/15/2019	10/14/2019	10/22/2019	10/18/2019	10/14/2019	10/2/2019	10/21/2019	10/17/2019	10/21/2019	10/21/2019	10/24/2019	10/24/2019	10/15/2019	10/3/2019
			Type	N	N	N	N	N	N	N	N	N	N	FD	N	FD	N	N
Group	Analyte	MCL	Units															
SVOCs	Caprolactam		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	Carbazole		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Chrysene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Di-n-butyl phthalate		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 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	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Dibenz(a,h)anthracene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Dibenzofuran		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Diethyl phthalate		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 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	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Fluoranthene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Fluorene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	1.7	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Hexachlorobenzene	1	ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Hexachlorobutadiene		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Hexachlorocyclopentadiene	50	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SVOCs	Hexachloroethane		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Indeno(1,2,3-cd)pyrene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Isophorone		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	N-Nitrosodi-n-propylamine		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	N-Nitrosodiphenylamine		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Naphthalene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	15	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Nitrobenzene		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Pentachlorophenol	1	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SVOCs	Phenanthrene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	1.1	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Phenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Pyrene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
VOCs	(1-Methylethyl)-Benzene		ug/L	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,1-Trichloroethane	200	ug/L	< 5.0	< 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
VOCs	1,1,2,2-Tetrachloroethane		ug/L	< 5.0	< 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
VOCs	1,1,2-Trichlor-1,2,2-trifluoroethane		ug/L	< 5.0	< 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
VOCs	1,1,2-Trichloroethane	5	ug/L	< 5.0	< 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
VOCs	1,1-Dichloroethane		ug/L	< 5.0	< 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
VOCs	1,1-Dichloroethene	7	ug/L	< 5.0	< 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
VOCs	1,2,4-Trichlorobenzene	70	ug/L	< 5.0	< 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
VOCs	1,2-Dibromo-3-chloropropane	0.2	ug/L	< 5.0	< 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
VOCs	1,2-Dibromoethane	0.05	ug/L	< 5.0	< 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
VOCs	1,2-Dichlorobenzene	600	ug/L	< 5.0	< 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
VOCs	1,2-Dichloroethane	5	ug/L	< 5.0	< 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
VOCs	1,2-Dichloropropane	5	ug/L	< 5.0	< 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
VOCs	1,3-Dichlorobenzene		ug/L	< 5.0	< 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
VOCs	1,4-Dichlorobenzene	75	ug/L	< 5.0	< 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
VOCs	2-Butanone		ug/L	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	2-Hexanone		ug/L	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	4-Methyl-2-pentanone		ug/L	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Acetone		ug/L	< 100	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
VOCs	Benzene	5	ug/L	< 5.0	< 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	1.2
VOCs	Bromodichloromethane		ug/L	< 5.0	< 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
VOCs	Bromoform		ug/L	< 5.0	< 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
VOCs	Bromomethane		ug/L	< 10	< 2.0	< 2.0	< 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	Carbon disulfide		ug/L	< 5.0	< 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
VOCs	Carbon tetrachloride	5	ug/L	< 5.0	< 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
VOCs	Chlorobenzene	100	ug/L	< 5.0	< 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
VOCs	Chloroethane		ug/L	< 10	< 2.0	< 2.0	< 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	< 5.0	< 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
VOCs	Chloromethane		ug/L	< 5.0	< 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
VOCs	cis-1,2-Dichloroethene	70	ug/L	13	< 1.0	4.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.1	2.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	cis-1,3-Dichloropropene		ug/L	< 5.0	< 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
VOCs	Cyclohexane		ug/L	< 5.0	< 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
VOCs	Dibromochloromethane		ug/L	< 5.0	< 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
VOCs	Dichlorodifluoromethane		ug/L	< 10	< 2.0	< 2.0	< 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	Ethylbenzene	700	ug/L	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Methyl acetate		ug/L	< 5.0	< 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
VOCs	Methyl tert-butyl ether		ug/L	< 5.0	< 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
VOCs	Methylcyclohexane		ug/L	< 25	< 5.0	< 5.0	< 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	< 5.0	< 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
VOCs	Styrene	100	ug/L	< 5.0	< 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
VOCs	Tetrachloroethene	5	ug/L	290	< 1.0	190	< 1.0	< 1.0	< 1.0	< 1.0	2.5	1.6	200	200	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Toluene	1000	ug/L	< 5.0	< 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
VOCs	trans-1,2-Dichloroethene	100	ug/L	< 5.0	< 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
VOCs	trans-1,3-Dichloropropene		ug/L	< 5.0	< 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
VOCs	Trichloroethene	5	ug/L	5.2	< 1.0	14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.9	4.7	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Trichlorofluoromethane		ug/L	< 5.0	< 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
VOCs	Vinyl chloride	2	ug/L	< 5.0	< 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
VOCs	Xylenes, Total	10000	ug/L	< 5.0	< 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

			Well	W-52	W-53	W-54	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
			Date	10/3/2019	10/3/2019	10/4/2019	10/4/2019	10/4/2019	10/4/2019	10/3/2019	10/4/2019	10/5/2019	10/17/2019	10/17/2019	10/22/2019	10/21/2019	10/17/2019	10/17/2019	10/17/2019	10/18/2019	10/22/2019
			Type	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Group	Analyte	MCL	Units																		
SVOCs	Caprolactam		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	Carbazole		ug/L	< 4.0	4.4	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Chrysene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Di-n-butyl phthalate		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 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	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Dibenz(a,h)anthracene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Dibenzofuran		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Diethyl phthalate		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 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	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Fluoranthene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Fluorene		ug/L	< 0.80	1.0	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Hexachlorobenzene	1	ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Hexachlorobutadiene		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Hexachlorocyclopentadiene	50	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SVOCs	Hexachloroethane		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Indeno(1,2,3-cd)pyrene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Isophorone		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	N-Nitrosodi-n-propylamine		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	N-Nitrosodiphenylamine		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Naphthalene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Nitrobenzene		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Pentachlorophenol	1	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SVOCs	Phenanthrene		ug/L	< 0.80	5.2	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Phenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Pyrene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
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	< 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	< 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	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
VOCs	2-Butanone		ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
VOCs	2-Hexanone		ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
VOCs	4-Methyl-2-pentanone		ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
VOCs	Acetone		ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 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	< 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	< 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	< 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	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0
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	< 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	< 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	< 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	< 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	< 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	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	13	22	1.5	< 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	< 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	< 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	< 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	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0
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	< 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	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0
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	< 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	< 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	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	42	1.0	1.3	220	480	49	110
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	< 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	< 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	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	84	8.5	8.4	1.8
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	< 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	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0

Table A1 - October 2019 Groundwater Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well	W-69	W-70	W-71	W-72	W-73	W-74	W-75	W-76	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	W-96	W-97	WSW-01*	WSW-02*	WSW-03*	WSW-04*
			Date	10/23/2019	10/23/2019	10/23/2019	10/4/2019	10/4/2019	10/9/2019	10/9/2019	10/5/2019	10/6/2019	10/5/2019	10/7/2019	10/6/2019	10/8/2019	10/8/2019	10/8/2019	10/8/2019	10/23/2019	10/23/2019	10/2/2019	10/22/2019	10/22/2019	10/22/2019	10/10/2019	10/6/2019	10/15/2019	10/15/2019	10/11/2019	10/11/2019	10/15/2019	10/22/2019	10/24/2019	10/24/2019
			Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Group	Analyte	MCL	Units																																
Radiological	Alpha particles	15**	pCi/L	2.31 #	0.0198 #	0.983 #	1.05 #	0.241 #	0 ##	2.10 #	2.77 #	865	0 ##	2.99 #	1.30 #	0 ##	1.37 #	0.300 #	0 ##	1.42 #	0.317 #	1.68 #	2.50 #	0.498 #	0.889 #	1.58 #	3.06	1.14 #	0.695 #	2.51 #	0.168 #	0.599 #	0.876 #	3.63	7.11
Radiological	Beta particles	50**	pCi/L	1.94 #	1.37 #	8.11	2.74 #	1.85 #	1.29 #	3.89 #	6.88	111	4.12 #	5.90	7.29	1.23 #	4.82	2.75 #	3.97 #	1.23 #	7.12	4.92	2.05 #	0 ##	23.1	3.78 #	8.18	2.48 #	0.814 #	4.36	11.0	0 ##	8.80	2.05 #	2.69 #
Radiological	Tritium		pCi/L																																
Radiological	Technetium-99	900	pCi/L	0 ##	21.4 #	12.2 #	0 ##	0 ##	11.5 #	0 ##	0 ##	101	0 ##	3.52 #	2.56 #	0 ##	0 ##	0.914 #	0 ##	19.3 #	8.88 #	0.787 #	6.34 #	27.5 #	6.68 #	0 ##	0 ##	20.4 #	2.35 #	0 ##	10.3 #	17.4 #	0.279 #	0.857 #	8.56 #
Radiological	Uranium-233/234		pCi/L	0.366	0.188 #	0.228 #	0.125 #	0 ##	0.111 #	0.0135 #	1.60	511	0.0921 #	0.0539 #	0.154 #	0.00840 #	0.0453 #	0.603	0.0661 #	0.0494 #	0.125 #	0.175 #	0.107 #	0.209 #	0.0370 #	0.0426 #	0.115 #	0.0614 #	0.0378 #	0.0695 #	0.106 #	0.315 #	0.0341 #	0.286 #	0.236 #
Radiological	Uranium-235/236		pCi/L	0.118 #	0 ##	0.0113 #	0 ##	0.0655 #	0.00238 #	0.0780 #	0 ##	26.0	0.0466 #	0 ##	0.0254 #	0 ##	0 #	0.161 #	0.0491 #	0.0621 #	0.130 #	0.00163 #	0.0449 #	0 ##	0.0653 #	0 ##	0.0644 #	0 ##	0.0692 #	0.108 #	0.0403 #	0 ##	0.104 #	0.0518 #	0.0774 #
Radiological	Uranium-238		pCi/L	0.201 #	0.0615 #	0.0743 #	0.0205 #	0.121 #	0.0963 #	0.00143 #	0.354	81.0	0.105 #	0.115 #	0.0695 #	0.112 #	0.140 #	0 ##	0 ##	0.0502 #	0.137 #	0.151 #	0.185 #	0 ##	0 ##	0.0765 #	0.0900 #	0.0262 #	0.0560 #	0.0719 #	0.0495 #	0.158 #	0.0506 #	0.788	0.342
Radiological	Percent Uranium-235		%	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	4.75	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #
Radiological	Uranium-234		ug/L	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.089	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Radiological	Uranium-235		ug/L	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	0.0308 J	10.1	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070
Radiological	Uranium-238		ug/L	< 0.200	< 0.200	0.165 J	0.095 J	0.0831 J	< 0.200	< 0.200	0.915	237	0.0933 J	0.0892 J	0.151 J	0.0728 J	0.151 J	< 0.200	0.0704 J	< 0.200	< 0.200	0.457	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.114 J	< 0.200	< 0.200	0.272	< 0.200	0.776	0.482
Radiological	Total Uranium Isotopes	30	ug/L	< 0.200	< 0.200	0.165 J	0.095 J	0.0831 J	< 0.200	< 0.200	0.946	247	0.0933 J	0.0892 J	0.151 J	0.0728 J	0.151 J	< 0.200	0.0704 J	< 0.200	< 0.200	0.457	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.114 J	< 0.200	< 0.200	0.272	< 0.200	0.776	0.482
Chemical	Fluoride	4	mg/L	0.022	< 0.100	0.084	0.116	0.071	0.019	0.109	1.45	9.21	13.4	2.4	1.57	0.042	0.046	0.079	0.087	0.23	0.511	0.278	0.012	0.011	0.039	0.099	0.043	0.043	0.077	0.111	0.375	0.023	0.103	0.013	0.013
Chemical	Nitrate as N	10	mg/L	0.16	1.4	0.021	1.5	2.0	4.9	0.063	9.8	12	3.5	4.0	8.3	3.1	0.99	0.76	< 0.020	0.039	< 0.020	0.055	4.5	2.5	2.3	0.029	5.3	< 0.020	0.024	0.054	3.4	0.020	< 0.020	< 0.020	0.067
Chemical	Ammonia as N		mg/L	0.0341	0.0077	0.0149	0.275	0.0167	0.159	0.391	0.0154	7.11	0.0271	0.0146	0.0927	0.0762	0.0275	0.0099	0.0119	0.03	0.0073	0.0127	0.0127	0.0132	0.0147	3.19	0.0324	0.246	0.145	0.228	4.89	0.0639	0.0273	0.0655	0.0166
Metals	Aluminum		ug/L	< 200	< 200	< 200	< 200	126 J	< 200	< 200	894	750	1320	878	1210	< 200	107 J	< 200	< 200	< 200	419	382	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	82.7 J	< 200	< 200	< 200	78.3 J
Metals	Antimony	6	ug/L	< 20.0	< 20.0	7.15 J	5.12 J	3.54 J	4.18 J	4.12 J	5.99 J	3.53 J	3.58 J	5.15 J	5.32 J	< 20.0	7.19 J	< 20.0	< 20.0	6.48 J	< 20.0	5.21 J	< 20.0	< 20.0	< 20.0	< 20.0	4.77 J	< 20.0	< 20.0	< 20.0	3.97 J	< 20.0	5.89 J	< 20.0	< 20.0
Metals	Arsenic	10	ug/L	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	7.94 J	5.58 J	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0
Metals	Barium	2000	ug/L	68.9	91.2	22	48.9	79	151	104	129	70.9	54.4	75.4	124	266	162	114	215	236	101	89.8	90.5	94	101	165	91.2	114	120	128	155	3.87 J	27.1	2.78 J	7.43
Metals	Beryllium	4	ug/L	< 5.00	1.17 J	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	1.49 J	< 5.00	< 5.00	1.41 J	1.59 J	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	1.26 J	< 5.00	< 5.00
Metals	Cadmium	5	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Metals	Calcium		ug/L	2480	3170	4300	11900	9540	6700	12900	4430	9350	7500	11200	17000	6000	1520	4120	5960	9410	2060	5440	5450	4380	3540	6100	5470	5440	6230	8750	7250	380	1990	330	288
Metals	Chromium	100	ug/L	< 10.0	< 10.0	< 10.0	1.59 J	1.66 J	< 10.0	< 10.0	1.12 J	2.55 J	< 10.0	1.86 J	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	1.02 J	< 10.0	2.85 J	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Metals	Cobalt		ug/L	8.08	9.91	< 5.00	5.27	6.27	3.43 J	29.2	1.41 J	1.27 J	< 5.00	< 5.00	6.06	10.3	17.3	10	19	2.69 J	3.99 J	4.87 J	1.08 J	1.08 J	1.62 J	< 5.00	3.97 J	1.3 J	2.24 J	3.35 J	1.05 J	1.99 J	< 5.00	4.45 J	3.66 J
Metals	Copper	1300	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	9.06 J	< 20.0	< 20.0	< 20.0	10 J	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	26.3	22.2	33.2
Metals	Iron		ug/L	4120	38.5 J	5910	1070	299	44.6 J	4590	< 100	223	< 100	< 100	230	18800	3030	226	2710	23900	7810	3160	< 100	< 100	< 100	21200	< 100	20900	42900	32300	492	< 100	7050	< 100	< 100
Metals	Lead	15	ug/L	< 20.0	< 20.0	5.18 J	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	7.16 J	< 20.0	< 20.0	< 20.0	< 20.0	4.88 J	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	3.91 J	5.63 J	5.14 J
Metals	Magnesium		ug/L	794	1410	745	3760	4600	3050	5220	1510	1970	1420	5490	5240	1930	902	2200	2390	3970	1180	1770	1840	1940	1300	4490	3060	2490	3880	4150	3420	184 J	970	157 J	190 J
Metals	Manganese		ug/L	412	90.4	81.6	992	454	134	740	32.9	5.83 J	2.83 J	12.8	118	385	227	170	1060	242	39.6	386	6.1 J	7.45 J	16.5	687	171	431	538	880	98.9	3.99 J	106	3.95 J	4.84 J
Metals	Mercury	2	ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200
Metals	Nickel		ug/L	1.94 J	4.49 J	< 5.00	9.31	99.7	21.1	315	1.8 J	8.14	< 5.00	< 5.00	1.88 J	2.31 J	2.93 J	2.44 J	2.19 J	< 5.00	1.64 J	< 5.00	1.54 J	< 5.00	< 5.00	< 5.00	2.76 J	1.94 J	2.33 J	< 5.00	3.18 J	2.09 J	1.74 J	5.23	5.64
Metals	Potassium		ug/L	840	2190	7080	3260	2400	3030	3910	3900	6270	4090	4490	7300	4760	1830	1360	1720	1620	174	2250	2010	1680	1710	1630	2830	1110	1190	2020	3780	687	1020	582	879
Metals	Selenium	50	ug/L	< 30.0	< 30.0	< 30.0	< 30.0	12.9 J	< 30.0	7.38 J	< 30.0	< 30.0	8.62 J	8.57 J	12.2 J	< 30.0	< 30.0	6.14 J	9.95 J	< 30.0	< 30.0	6.47 J	< 30.0	< 30.0	< 30.0	< 30.0	15.3 J	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0
Metals	Silver		ug/L	< 5.00	< 5.00	1.73 J	< 5.00	< 5.00	1.05 J	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	1.54 J	1.23 J	< 5.00	1.44 J	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Metals	Sodium		ug/L	13600	3580	10800	12400	10200	10900	7670	22200	277000	45500	11500	53600	16800	25600	23200	25600	46200	51000	32500	6330	3430	6810	15800	11700	8060	9960	18300	20800	1620	5130	1740	1140
Metals	Thallium	2	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
Metals	Vanadium		ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	11.5	7.88	< 5.00	< 5.00	1.25 J	< 5.00	< 5.00	< 5.00	1.57 J	1.1 J	2.74 J	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Metals	Zinc		ug/L	14.4 J	12.2 J	< 20.0	8.31 J	10.8 J	14.5 J	13.3 J	5.89 J	28.5	8.47 J	4.87 J	8.47 J	4.59 J	13.1 J	8.73 J	13.9 J	3.73 J	3.59 J	7.31 J	10.3 J	< 20.0	6.93 J	3.97 J	12 J	4.18 J	< 20.0	6 J	9.02 J	5.83 J	13.4 J	37	116
SVOCs	1,1'-Biphenyl		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2,4,5-Trichlorophenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2,4,6-Trichlorophenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2,4-Dichlorophenol		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	2,4-Dimethylphenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2,4-Dinitrophenol		ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SVOCs	2,4-Dinitrotoluene		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	2,6-Dinitrotoluene		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	2-Chloronaphthalene		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2-Chlorophenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2-Methylnaphthalene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	2-Methylphenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2-Nitroaniline		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	2-Nitrophenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	3,3'-Dichlorobenzidine		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	3-Nitroaniline		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	4,6-Dinitro-2-methylphenol		ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SVOCs	4-Bromophenyl phenyl ether		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	4-Chloro-3-methylphenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	4-Chloroaniline		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	4-Chlorophenyl phenyl ether		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	4-Methylphenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	4-Nitroaniline		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	4-Nitrophenol		ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SVOCs	Acenaphthene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Acenaphthylene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Acetophenone		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Anthracene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Atrazine	3	ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Benz(a)anthracene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Benzaldehyde		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	Benzo(a)pyrene	0.2	ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Benzo(b)fluoranthene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Benzo(g,h,i)perylene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Benzo(k)fluoranthene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Bis(2-chloroethoxy)methane		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Bis(2-chloroethyl)ether		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Bis(2-chloroisopropyl)ether		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Bis(2-ethylhexyl)phthalate	6	ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Butyl benzyl phthalate		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0

Table A1 - October 2019 Groundwater Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well	W-69	W-70	W-71	W-72	W-73	W-74	W-75	W-76	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	W-96	W-97	WSW-01*	WSW-02*	WSW-03*	WSW-04*
			Date	10/23/2019	10/23/2019	10/23/2019	10/4/2019	10/4/2019	10/9/2019	10/9/2019	10/5/2019	10/6/2019	10/5/2019	10/7/2019	10/6/2019	10/8/2019	10/8/2019	10/8/2019	10/8/2019	10/23/2019	10/23/2019	10/2/2019	10/22/2019	10/22/2019	10/22/2019	10/10/2019	10/6/2019	10/15/2019	10/15/2019	10/11/2019	10/11/2019	10/15/2019	10/22/2019	10/24/2019	10/24/2019
			Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Group	Analyte	MCL	Units																																
SVOCs	Caprolactam		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
SVOCs	Carbazole		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Chrysene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Di-n-butyl phthalate		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 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	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Dibenz(a,h)anthracene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Dibenzofuran		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Diethyl phthalate		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 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	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Fluoranthene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Fluorene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Hexachlorobenzene	1	ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Hexachlorobutadiene		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Hexachlorocyclopentadiene	50	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SVOCs	Hexachloroethane		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Indeno(1,2,3-cd)pyrene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Isophorone		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	N-Nitrosodi-n-propylamine		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	N-Nitrosodiphenylamine		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Naphthalene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Nitrobenzene		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Pentachlorophenol	1	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SVOCs	Phenanthrene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Phenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Pyrene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
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	< 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
VOCs	2-Butanone		ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	2-Hexanone		ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	4-Methyl-2-pentanone		ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Acetone		ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 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	1.2	< 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	< 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	3.4	< 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	< 1.0
VOCs	Bromoform		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	11	< 1.0	< 1.0	3.9	< 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
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	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 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	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	< 1.0	< 1.0	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	< 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	< 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
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	< 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
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	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 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	11	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 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
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	< 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
VOCs	cis-1,2-Dichloroethene	70	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	1.0	1.9	< 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	< 1.0	< 1.0	< 1.0	5.3	4.3	< 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	< 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
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	< 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
VOCs	Dibromochloromethane		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.6	< 1.0	< 1.0	1.8	< 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	< 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	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 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	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	< 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
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	< 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
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	< 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
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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 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	< 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
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	< 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
VOCs	Tetrachloroethene	5	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	38	4.1	2.1	< 1.0	< 1.0	24	< 1.0	< 1.0	< 1.0	4.3	< 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	< 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
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	< 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
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	< 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
VOCs	Trichloroethene	5	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.5	< 1.0	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	11	< 1.0	< 1.0	< 1.0	< 1.0	2.8	< 1.0	< 1.0	< 1.0	1.2	< 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	< 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
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	< 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	2.9	< 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	< 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

Notes:
* - private water supply well groundwater sample
** - site-specific action level
N - normal sample
FD - field duplicate sample
MCL - Maximum Contaminant Level
Bold concentrations indicate detections
Concentrations in shaded cells exceed their MCL
NA - not analyzed
- value is below minimum detectable concentration
- value is reported 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
J - Estimated result is less than the practical quantitation limit and greater than the method detection limit

Table A2 - Surface Water Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Location	SW-11	SW-12	SW-13	SW-14	SW-16	SW-17	SW-17	SW-18	SW-19	SW-20	SW-21	SW-21	SW-22	SW-22	SW-23
			Sample Type	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N
			Date	7/17/2019	7/17/2019	7/17/2019	7/17/2019	7/17/2019	7/18/2019	7/18/2019	7/16/2019	7/17/2019	7/16/2019	7/15/2019	7/17/2019	7/15/2019	7/17/2019	7/16/2019
Group	Analyte	MCL	Unit															
Radiological	Technetium-99	900	pCi/L	0 ##	0 ##	0 ##	3.73 #	0 ##	0 ##	0 ##	1.29 #	0 ##	0 ##	NA	0 ##	NA	0 ##	13.6 #
Radiological	Uranium-233/234		pCi/L	0.296	0.0491 #	0.0159 #	0.575	3.34	0.145 #	0.204 #	0.285 #	0.587	2.35	0.0905 #	NA	0.187 #	NA	0.0557 #
Radiological	Uranium-235/236		pCi/L	0.0959 #	0.00914 #	0 #	0.101 #	0.145	0 ##	0 #	0.0501 #	0.0192 #	0.123	0.0804 #	NA	0 #	NA	0 ##
Radiological	Uranium-238		pCi/L	0.105 #	0.101 #	0 ##	0.0793 #	0.710	0.150 #	0.0925 #	0.159 #	0.168 #	0.626	0.0508 #	NA	0.0611 #	NA	0.103 #
Radiological	Total Uranium	30	ug/L	0.365	< 0.2	0.134	0.297	1.78	0.246	0.229	0.304	0.524	1.14	0.160	NA	0.199	NA	0.0673
Radiological	Uranium-234		ug/L	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	NA	< 0.050	NA	< 0.050
Radiological	Uranium-235		ug/L	< 0.070	< 0.070	< 0.070	< 0.070	0.0682 J	< 0.070	< 0.070	< 0.070	0.0174 J	0.0274 J	< 0.070	NA	< 0.070	NA	< 0.070
Radiological	Uranium-238		ug/L	0.365	< 0.200	0.134 J	0.297	1.71	0.246	0.229	0.304	0.507	1.11	0.16 J	NA	0.199 J	NA	0.0673 J
Chemical	Ammonia		mg/L	0.546	0.228	0.249	0.233	4.35	0.290	0.290	0.208	0.376	0.640	0.244	NA	0.187	NA	0.459
Chemical	Fluoride	4	mg/L	0.146	0.296	0.226	0.234	1.69	0.460	0.471	0.309	0.154	0.494	0.433	NA	0.432	NA	4.94
Chemical	Nitrate as N	10	mg/L	< 0.020	< 0.020	< 0.020	0.63	0.48	3.8	3.8	5.7	< 0.020	< 0.020	< 0.02	NA	< 0.02	NA	7.3
Metals	Aluminum		ug/L	634	118 J	212	91.3 J	155 J	144 J	141 J	721	337	234	116 J	NA	102 J	NA	203
Metals	Antimony	6	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	NA	< 20.0	NA	< 20.0
Metals	Arsenic	10	ug/L	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	NA	< 30.0	NA	< 30.0
Metals	Barium	2000	ug/L	113	52.2	101	66	12.3	85.3	81.8	91.8	67.1	66.3	28.3	NA	34.5	NA	84.4
Metals	Beryllium	4	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	NA	< 5.00	NA	< 5.00
Metals	Cadmium	5	ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	NA	< 5.00	NA	< 5.00
Metals	Calcium		ug/L	3380	6540	7900	6570	4690	10000	9770	8150	4010	7450	3480	NA	3760	NA	16400
Metals	Chromium	100	ug/L	1.47 J	< 10.0	1.25 J	< 10.0	2.64 J	< 10.0	< 10.0	1.19 J	< 10.0	< 10.0	< 10.0	NA	< 10.0	NA	< 10.0
Metals	Cobalt		ug/L	3.96 J	1.01 J	2.35 J	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	5.38	2.24 J	< 5.00	NA	< 5.00	NA	< 5.00
Metals	Copper	1300	ug/L	3.37 J	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	NA	< 20.0	NA	< 20.0
Metals	Iron		ug/L	2410	1110	3820	1180	614	715	682	1260	3890	4710	612	NA	844	NA	69.7 J
Metals	Lead	15	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	NA	< 20.0	NA	< 20.0
Metals	Magnesium		ug/L	1030	1340	1490	1240	326	2280	2130	2140	1270	1720	1020	NA	1110	NA	4800
Metals	Manganese		ug/L	944	1320	1860	275	26.8	86.5	82.9	41	528	642	107	NA	189	NA	73.3
Metals	Mercury	2	ug/L	0.081 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	NA	< 0.200	NA	< 0.200
Metals	Nickel		ug/L	1.82 J	< 5.00	< 5.00	< 5.00	3.5 J	33.4	31.4	14.8	3.17 J	1.7 J	1.86 J	NA	1.83 J	NA	1.68 J
Metals	Potassium		ug/L	1920	1690	1850	1620	816	2710	2640	2280	3010	3780	1310	NA	1420	NA	6320
Metals	Selenium	50	ug/L	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	NA	< 30.0	NA	< 30.0
Metals	Silver		ug/L	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	NA	< 5.00	NA	< 5.00
Metals	Sodium		ug/L	1980	4860	3780	4530	1090	11300	11200	9550	918	4200	3590	NA	3810	NA	48900
Metals	Thallium	2	ug/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	NA	< 20.0	NA	< 20.0
Metals	Vanadium		ug/L	4.62 J	< 5.00	1.79 J	< 5.00	< 5.00	< 5.00	< 5.00	1.84 J	2.25 J	1.57 J	< 5.00	NA	< 5.00	NA	1.03 J
Metals	Zinc		ug/L	15.2 J	5.55 J	11.4 J	13 J	44.6	15.6 J	14.7 J	15.3 J	8.82 J	7.65 J	5.61 J	NA	6.12 J	NA	4.54 J
SVOCs	1,1'-Biphenyl		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	2,4,5-Trichlorophenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	2,4,6-Trichlorophenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	2,4-Dichlorophenol		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8	NA	< 8	NA	< 8.0
SVOCs	2,4-Dimethylphenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	2,4-Dinitrophenol		ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	NA	< 20	NA	< 20
SVOCs	2,4-Dinitrotoluene		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8	NA	< 8	NA	< 8.0
SVOCs	2,6-Dinitrotoluene		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8	NA	< 8	NA	< 8.0
SVOCs	2-Chloronaphthalene		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	2-Chlorophenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	2-Methylnaphthalene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.8	NA	< 0.8	NA	< 0.80
SVOCs	2-Methylphenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	2-Nitroaniline		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8	NA	< 8	NA	< 8.0
SVOCs	2-Nitrophenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	3,3'-Dichlorobenzidine		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	3-Nitroaniline		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8	NA	< 8	NA	< 8.0
SVOCs	4,6-Dinitro-2-methylphenol		ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	NA	< 20	NA	< 20
SVOCs	4-Bromophenyl phenyl ether		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	4-Chloro-3-methylphenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	4-Chloroaniline		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8	NA	< 8	NA	< 8.0
SVOCs	4-Chlorophenyl phenyl ether		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	4-Methylphenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0

Table A2 - Surface Water Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Location	SW-11	SW-12	SW-13	SW-14	SW-16	SW-17	SW-17	SW-18	SW-19	SW-20	SW-21	SW-21	SW-22	SW-22	SW-23
			Sample Type	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N
			Date	7/17/2019	7/17/2019	7/17/2019	7/17/2019	7/17/2019	7/18/2019	7/18/2019	7/16/2019	7/17/2019	7/16/2019	7/15/2019	7/17/2019	7/15/2019	7/17/2019	7/16/2019
Group	Analyte	MCL	Unit															
SVOCs	4-Nitroaniline		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8	NA	< 8	NA	< 8.0
SVOCs	4-Nitrophenol		ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	NA	< 20	NA	< 20
SVOCs	Acenaphthene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.8	NA	< 0.8	NA	< 0.80
SVOCs	Acenaphthylene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.8	NA	< 0.8	NA	< 0.80
SVOCs	Acetophenone		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	Anthracene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.8	NA	< 0.8	NA	< 0.80
SVOCs	Atrazine	3	ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	Benz(a)anthracene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.8	NA	< 0.8	NA	< 0.80
SVOCs	Benzaldehyde		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8	NA	< 8	NA	< 8.0
SVOCs	Benzo(a)pyrene	0.2	ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	NA	< 0.80	NA	< 0.80
SVOCs	Benzo(b)fluoranthene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.8	NA	< 0.8	NA	< 0.80
SVOCs	Benzo(g,h,i)perylene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.8	NA	< 0.8	NA	< 0.80
SVOCs	Benzo(k)fluoranthene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.8	NA	< 0.8	NA	< 0.80
SVOCs	Bis(2-chloroethoxy)methane		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	Bis(2-chloroethyl)ether		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	Bis(2-chloroisopropyl)ether		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	Bis(2-ethylhexyl)phthalate	6	ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	Butyl benzyl phthalate		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	Caprolactam		ug/L	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8	NA	< 8	NA	< 8.0
SVOCs	Carbazole		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	Chrysene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.8	NA	< 0.8	NA	< 0.80
SVOCs	Dibenz(a,h)anthracene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.8	NA	< 0.8	NA	< 0.80
SVOCs	Dibenzofuran		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	Diethyl phthalate		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	Dimethyl phthalate		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	Di-n-butyl phthalate		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	Di-n-octyl phthalate		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	Fluoranthene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.8	NA	< 0.8	NA	< 0.80
SVOCs	Fluorene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.8	NA	< 0.8	NA	< 0.80
SVOCs	Hexachlorobenzene	1	ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	Hexachlorobutadiene		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	Hexachlorocyclopentadiene	50	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	NA	< 20	NA	< 20
SVOCs	Hexachloroethane		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	Indeno(1,2,3-cd)pyrene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.8	NA	< 0.8	NA	< 0.80
SVOCs	Isophorone		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	Naphthalene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.8	NA	< 0.8	NA	< 0.80
SVOCs	Nitrobenzene		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	N-Nitrosodi-n-propylamine		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	N-Nitrosodiphenylamine		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	Pentachlorophenol	1	ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	NA	< 20	NA	< 20
SVOCs	Phenanthrene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.8	NA	< 0.8	NA	< 0.80
SVOCs	Phenol		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4	NA	< 4	NA	< 4.0
SVOCs	Pyrene		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.8	NA	< 0.8	NA	< 0.80
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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 1.0
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	NA	< 1	NA	< 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	NA	< 1	NA	< 1.0

Table A2 - Surface Water Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Location	SW-11	SW-12	SW-13	SW-14	SW-16	SW-17	SW-17	SW-18	SW-19	SW-20	SW-21	SW-21	SW-22	SW-22	SW-23
				Sample Type	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N
				Date	7/17/2019	7/17/2019	7/17/2019	7/17/2019	7/17/2019	7/18/2019	7/18/2019	7/16/2019	7/17/2019	7/16/2019	7/15/2019	7/17/2019	7/15/2019	7/17/2019	7/16/2019
Group	Analyte	MCL	Unit																
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	NA	< 1	NA	< 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	NA	< 1	NA	< 1.0
VOCs	2-Butanone		ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	NA	< 10
VOCs	2-Hexanone		ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	NA	< 10
VOCs	4-Methyl-2-pentanone		ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	NA	< 10
VOCs	Acetone		ug/L		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	NA	< 20	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 2	NA	< 2.0
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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 2	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 2	NA	< 2.0
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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 1.0
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	NA	< 5	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 1.0
VOCs	Tetrachloroethene	5	ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16	16	14	< 1.0	< 1.0	< 1	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 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	NA	< 1	NA	< 1.0

Notes:
N - normal sample
FD - field duplicate sample
MCL - Maximum Contaminant Level
Bold concentrations indicate detections
Concentrations in shaded cells exceed their MCL
NA - not analyzed
- value is below minimum detectable concentration
- value is reported 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
J - Estimated result is less than the practical quantitation limit and greater than the method detection limit

Table A3 - Sediment Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Location	SED-11	SED-12	SED-13	SED-14	SED-15	SED-16	SED-17	SED-17	SED-18	SED-19	SED-20	SED-21	SED-22	SED-23	SED-24	SED-25	SED-26	SED-27	SED-28	SED-29
				Depth	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in
				Type	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N
				Date	7/17/2019	7/17/2019	7/17/2019	7/17/2019	7/16/2019	7/17/2019	7/18/2019	7/18/2019	7/16/2019	7/17/2019	7/16/2019	7/15/2019	7/15/2019	7/16/2019	7/16/2019	7/18/2019	7/18/2019	7/18/2019	7/18/2019	7/18/2019	11/20/2019
Group	Analyte	RUSL	IUSL	Units																				
Radiological	Technetium-99	19	89400	pCi/g	0 ##	0 ##	0 ##	0.0243 #	5.62 #	4.94 #	7.50 #	0 ##	0 ##	6.28 #	0 ##	4.12 #	0 ##	50.8	35.8	8.55 #	1.68 #	0 ##	5.75 #	0 ##
Radiological	Uranium-233/234	13	3310	pCi/g	1.14	0.925	1.67	1.42	2.58	14.9	0.658	1.07	0.219	32.5	62.5	1.86	117	1.35	1.14	907	222	225	254	6.23
Radiological	Uranium-235/236	8	39	pCi/g	0.00159 #	0.0647 #	0.156 #	0.0250 #	0.181	0.678	0.0235 #	0.104 #	0.0173 #	2.30	3.12	0.104 #	4.98	0.00261 #	0.0608 #	41.1	11.0	11.9	12.4	0.313
Radiological	Uranium-238	14	179	pCi/g	0.742	1.17	1.33	0.389	2.05	2.77	0.302	0.354	0.298	8.18	14.9	1.96	28.0	1.69	0.944	149	46.9	37.4	44.6	2.51
Radiological	Uranium-234			ug/kg	< 25.7	< 25.6	< 15.4	< 12.1	< 12.4	< 12.0	< 11.0	< 11.8	< 12.0	4.27 J	12.7 J	< 30.8	22 J	< 14.4	< 15.9	225	129	38.9 J	57.2 J	< 24.3
Radiological	Uranium-235			ug/kg	11.5 J	16 J	13.8 J	5.32 J	51.2	114	6.57 J	2.9 J	5 J	451	1310	27.8 J	2230	18.3 J	15.9 J	27100	14200	3970	6770	86.4
Radiological	Uranium-238			ug/kg	1320	1700	1360	260	5790	3310	401	140	265	16200	49700	2840	80700	2250	1680	646000	487000	90900	161000	6030
Radiological	Total Uranium Isotopes			ug/kg	1330	1720	1370	265	5840	3420	408	143	270	16700	51000	2870	83000	2270	1700	673000	501000	94900	168000	6120
Chemical	Ammonia			mg/kg	723	560	98.5	6.43	49.0	13.5	4.15	3.66	3.48	401	1600	532	978	214	70.5	2270	167	395	1560	455
Chemical	Nitrate as N			mg/kg	0.33	0.24	0.2	< 0.2	< 0.20	2.7	2.1	0.95	< 0.20	1.2	< 0.20	< 0.2	< 0.2	< 0.20	0.20	0.27	1.4	0.30	< 0.20	< 0.50
Chemical	Nitrate ion			mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.45
Chemical	Fluoride			mg/kg	1.35 J	2.26 J	1.45 J	< 1.21	2.09	8.73	0.908 J	0.814 J	< 1.22	3.51	15.7	2.17 J	4.64	38.1	49.2	53.3	4.61	171	39.3	1.14 J
Chemical	Solids			%	35.5	35.2	55.7	76.0	79.3	75.6	86.2	90.4	76.0	36.1	13.6	34	26	57.4	52.2	11.5	64.1	23.3	25.1	35.2
Metals	Aluminum			mg/kg	10400	10300	8230	502	3510	682	459	340	401	3600	11000	31200	25800	19800	10500	6570	5540	1860	5790	25900
Metals	Antimony			mg/kg	< 5.29	< 4.93	< 3	0.511 J	< 2.42	0.447 J	0.482 J	0.512 J	< 2.53	< 3.75	< 11.7	< 6	< 6.26	< 2.87	< 2.94	5.01 J	1.22 J	4.79 J	6.81 J	< 4.85
Metals	Arsenic			mg/kg	< 7.94	< 7.39	2.14 J	< 3.61	< 3.63	< 3.69	< 3.46	< 3.35	< 3.8	< 5.63	4.21 J	6.38 J	4.62 J	3.36 J	< 4.4	< 26.7	0.795 J	< 15.4	< 19.7	4.24 J
Metals	Barium			mg/kg	126	118	131	5.16	15.9	5.1	4.92	4.61	4.9	50.2	140	250	209	127	76.8	103	56	723	1220	207
Metals	Beryllium			mg/kg	0.718 J	1.13 J	1.02	< 0.601	0.258 J	< 0.614	< 0.577	< 0.558	< 0.634	0.361 J	1.14 J	2.39	2.02	2.09	0.896	< 4.44	0.253 J	< 2.57	< 3.28	1.83
Metals	Cadmium			mg/kg	< 1.32	< 1.23	< 0.751	< 0.601	0.14 J	< 0.614	< 0.577	< 0.558	< 0.634	< 0.939	< 2.92	< 1.5	0.374 J	0.209 J	< 0.734	2 J	0.61 J	< 2.57	< 3.28	< 1.21
Metals	Calcium			mg/kg	1110	1020	620	142	452	117	48.5	32.9	21.7 J	375	3550	484	872	770	606	10500	3950	253000	284000	809
Metals	Chromium			mg/kg	9.99	8.34	18.4	1.24	6.91	1.77	1.02 J	0.576 J	0.606 J	5.32	13.6	40	35.1	29.3	15.2	35.7	49.6	78.9	75.3	33.8
Metals	Cobalt			mg/kg	4.34	2.97	11.6	0.269 J	1.52	< 0.614	0.175 J	0.326 J	< 0.634	3.92	6.31	18.9	16.6	11.8	5	8.69	2.95	2 J	2.91 J	8.36
Metals	Copper			mg/kg	7.14	5.39	8.83	0.386 J	2.75	1 J	< 2.31	< 2.23	< 2.53	5.33	19.5	29.8	33.1	18.5	7.79	418	116	20.9	36.4	27.9
Metals	Iron			mg/kg	7610	4320	15000	581	4630	1070	257	217	217	3770	10200	25900	32500	29500	10100	12300	2840	4310	29100	17600
Metals	Lead			mg/kg	24	28	13.9	0.865 J	3.74	1.26 J	0.439 J	0.42 J	0.476 J	8.3	25.5	25	37.4	14.4	8.69	45.9	29.3	18.5	91.7	28.2
Metals	Magnesium			mg/kg	481	279	1240	91.5	194	22.3 J	35.7	14.4 J	15 J	238	751	3320	2180	2980	1220	1180	679	17200	16500	2800
Metals	Manganese			mg/kg	230	150	332	15.6	54.8	3.72	18	11.9	12.3	123	246	345	389	268	123	97.2	23	102	149	223
Metals	Mercury			ug/kg	62.3	56.8	15.7 J	< 12.7	5.46 J	< 14.9	< 14.2	< 13.3	< 13.1	34.6	121	75.8	113	40.3	25.8	407	576	287	526	NA
Metals	Nickel			mg/kg	4.13	3.51	7.33	0.341 J	2.21	0.568 J	0.773	0.442 J	0.492 J	8.68	15.5	18.7	43.3	11.5	5.45	86.7	75.1	255	143	15.2
Metals	Potassium			mg/kg	300	263	538	84.4	200	139	87.4	95.4	90.7	205	664	1890	1410	2010	846	798	170	308	3650	1400
Metals	Selenium			mg/kg	2.38 J	< 7.39	< 4.51	< 3.61	< 3.63	< 3.69	< 3.46	< 3.35	< 3.8	< 5.63	< 17.5	1.51 J	3.29 J	< 4.31	0.885 J	4.72 J	0.72 J	2.58 J	3.69 J	< 7.27
Metals	Silver			mg/kg	< 1.32	< 1.23	< 0.751	< 0.601	< 0.606	< 0.614	< 0.577	< 0.558	< 0.634	< 0.939	< 2.92	< 1.5	< 1.56	< 0.718	< 0.734	323	544	10.5	27.6	< 12.1
Metals	Sodium			mg/kg	34.8 J	42 J	32.5 J	18.8 J	41.4	12.9 J	14.1 J	17.1 J	13.5 J	19.9 J	109 J	119	69.7 J	130	94.7	919	90.4	6330	7260	125
Metals	Thallium			mg/kg	< 5.29	< 4.93	< 30	< 2.4	< 2.42	< 2.46	< 2.31	< 2.23	< 2.53	< 3.75	< 11.7	< 60	< 62.6	< 28.7	< 29.4	< 17.8	< 2.6	< 10.3	< 13.1	< 48.5
Metals	Vanadium			mg/kg	25.9	21.6	36.5	1.74	10.5	2.81	1.18	1.43	1.6	13.3	41	100	73.7	70.5	33.5	22.2	7.25	5.71	5.67	85.6
Metals	Zinc			mg/kg	38.2	23	33.8	5.64	50.8	6.09	2.42	1.24 J	1 J	32.4	63.8	73.1	138	46	22.8	9070	229	523	403	69.1
SVOCs	1,1'-Biphenyl			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	2,4,5-Trichlorophenol			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	2,4,6-Trichlorophenol			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	2,4-Dichlorophenol			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	2,4-Dimethylphenol			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	2,4-Dinitrophenol			ug/kg	< 320	< 330	< 320	< 310	< 330	< 320	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 320	< 310	< 320	< 1600	< 320	< 320	< 1600
SVOCs	2,4-Dinitrotoluene			ug/kg	< 130	< 130	< 130	< 120	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 120	< 120	< 630	< 130	< 130	< 640
SVOCs	2,6-Dinitrotoluene			ug/kg	< 130	< 130	< 130	< 120	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 120	< 120	< 630	< 130	< 130	< 640
SVOCs	2-Chloronaphthalene			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	2-Chlorophenol			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	2-Methylnaphthalene			ug/kg	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 64	< 13	< 13	< 65
SVOCs	2-Methylphenol			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	2-Nitroaniline			ug/kg	< 130	< 130	< 130	< 120	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 120	< 120	< 630	< 130	< 130	< 640
SVOCs	2-Nitrophenol			ug/kg	< 130	< 130	< 130	< 120	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 120	< 120	< 630	< 130	< 130	< 640
SVOCs	3,3'-Dichlorobenzidine			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	3-Nitroaniline			ug/kg	< 130	< 130	< 130	< 120	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 120	< 120	< 630	< 130	< 130	< 640
SVOCs	4,6-Dinitro-2-methylphenol			ug/kg	< 320	< 330	< 320	< 310	< 330	< 320	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 320	< 310	< 320	< 1600	< 320	< 320	< 1600
SVOCs	4-Bromophenyl phenyl ether			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	4-Chloro-3-methylphenol			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	4-Chloroaniline			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	4-Chlorophenyl phenyl ether			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	4-Methylphenol			ug/kg	< 130	< 130	< 130	< 120	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 120	< 120	< 630	< 130	< 130	< 640

Table A3 - Sediment Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Location	SED-11	SED-12	SED-13	SED-14	SED-15	SED-16	SED-17	SED-17	SED-18	SED-19	SED-20	SED-21	SED-22	SED-23	SED-24	SED-25	SED-26	SED-27	SED-28	SED-29
				Depth	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in
				Type	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N
				Date	7/17/2019	7/17/2019	7/17/2019	7/17/2019	7/16/2019	7/17/2019	7/18/2019	7/18/2019	7/16/2019	7/17/2019	7/16/2019	7/15/2019	7/15/2019	7/16/2019	7/16/2019	7/18/2019	7/18/2019	7/18/2019	7/18/2019	11/20/2019
Group	Analyte	RUSL	IUSL	Units																				
SVOCs	4-Nitroaniline			ug/kg	< 130	< 130	< 130	< 120	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 120	< 120	< 630	< 130	< 130	< 640
SVOCs	4-Nitrophenol			ug/kg	< 320	< 330	< 320	< 310	< 330	< 320	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 320	< 310	< 320	< 1600	< 320	< 320	< 1600
SVOCs	Acenaphthene			ug/kg	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 64	< 13	< 13	< 65
SVOCs	Acenaphthylene			ug/kg	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 64	< 13	< 13	< 65
SVOCs	Acetophenone			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	Anthracene			ug/kg	< 13	< 13	14	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 64	< 13	110	< 65
SVOCs	Atrazine			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	Benz(a)anthracene			ug/kg	< 13	< 13	170	13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 64	< 13	3400	< 65
SVOCs	Benzaldehyde			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	Benzo(a)pyrene			ug/kg	< 13	< 13	290	20	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	79	< 13	3000	< 65
SVOCs	Benzo(b)fluoranthene			ug/kg	< 13	< 13	630	37	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	150	< 13	4600	< 65
SVOCs	Benzo(g,h,i)perylene			ug/kg	< 13	< 13	190	18	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 64	< 13	1800	< 65
SVOCs	Benzo(k)fluoranthene			ug/kg	< 13	< 13	200	16	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 64	< 13	1900	< 65
SVOCs	Bis(2-chloroethoxy)methane			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	Bis(2-chloroethyl)ether			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	Bis(2-chloroisopropyl)ether			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	Bis(2-ethylhexyl)phthalate			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	91	270	< 330
SVOCs	Butyl benzyl phthalate			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	Caprolactam			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	Carbazole			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	Chrysene			ug/kg	< 13	< 13	310	21	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 64	< 13	3200	< 65
SVOCs	Dibenz(a,h)anthracene			ug/kg	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 64	< 13	< 13	< 65
SVOCs	Dibenzofuran			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	Diethyl phthalate			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	Dimethyl phthalate			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	Di-n-butyl phthalate			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	Di-n-octyl phthalate			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	Fluoranthene			ug/kg	< 13	< 13	570	36	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	81	< 13	7100	< 65
SVOCs	Fluorene			ug/kg	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 64	< 13	< 13	< 65
SVOCs	Hexachlorobenzene			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	Hexachlorobutadiene			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	Hexachlorocyclopentadiene			ug/kg	< 320	< 330	< 320	< 310	< 330	< 320	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 320	< 310	< 320	< 1600	< 320	< 320	< 1600
SVOCs	Hexachloroethane			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	Indeno(1,2,3-cd)pyrene			ug/kg	< 13	< 13	170	15	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 64	< 13	1600	< 65
SVOCs	Isophorone			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	Naphthalene			ug/kg	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 64	< 13	< 13	< 65
SVOCs	Nitrobenzene			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	N-Nitrosodi-n-propylamine			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	N-Nitrosodiphenylamine			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	Pentachlorophenol			ug/kg	< 320	< 330	< 320	< 310	< 330	< 320	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 320	< 310	< 320	< 1600	< 320	< 320	< 1600
SVOCs	Phenanthrene			ug/kg	< 13	< 13	130	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 64	< 13	440	< 65
SVOCs	Phenol			ug/kg	< 66	< 67	< 64	< 64	< 67	< 65	< 67	< 64	< 66	< 67	< 66	< 66	< 66	< 65	< 64	< 64	< 320	< 64	< 65	< 330
SVOCs	Pyrene			ug/kg	< 13	< 13	450	28	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	82	< 13	5600	< 65
VOCs	(1-Methylethyl)-Benzene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	1,1,1-Trichloroethane			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	1,1,2,2-Tetrachloroethane			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	1,1,2-Trichlor-1,2,2-trifluoroethane			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	1,1,2-Trichloroethane			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	1,1-Dichloroethane			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	1,1-Dichloroethene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	1,2,4-Trichlorobenzene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	1,2-Dibromo-3-chloropropane			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	1,2-Dibromoethane			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	1,2-Dichlorobenzene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	1,2-Dichloroethane			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	1,2-Dichloropropane			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	1,3-Dichlorobenzene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	1,4-Dichlorobenzene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1

Table A3 - Sediment Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Location	SED-11	SED-12	SED-13	SED-14	SED-15	SED-16	SED-17	SED-17	SED-18	SED-19	SED-20	SED-21	SED-22	SED-23	SED-24	SED-25	SED-26	SED-27	SED-28	SED-29
				Depth	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in
				Type	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N
				Date	7/17/2019	7/17/2019	7/17/2019	7/17/2019	7/16/2019	7/17/2019	7/18/2019	7/18/2019	7/16/2019	7/17/2019	7/16/2019	7/15/2019	7/15/2019	7/16/2019	7/16/2019	7/18/2019	7/18/2019	7/18/2019	7/18/2019	11/20/2019
Group	Analyte	RUSL	IUSL	Units																				
VOCs	2-Butanone			ug/kg	< 25	180	< 24	< 17	< 15	< 16	< 19	< 19	< 18	45	45	< 25	32	< 28	< 17	NA	NA	NA	NA	< 21
VOCs	2-Hexanone			ug/kg	< 13	< 11	< 12	< 8.7	< 7.6	< 8.2	< 9.6	< 9.5	< 8.9	< 10	< 13	< 12	< 12	< 14	< 8.3	NA	NA	NA	NA	< 10
VOCs	4-Methyl-2-pentanone			ug/kg	< 13	< 11	< 12	< 8.7	< 7.6	< 8.2	< 9.6	< 9.5	< 8.9	< 10	< 13	< 12	< 12	< 14	< 8.3	NA	NA	NA	NA	< 10
VOCs	Acetone			ug/kg	32	110	30	28	< 15	< 16	< 19	< 19	< 18	48	110	67	88	91	25	NA	NA	NA	NA	410
VOCs	Benzene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Bromodichloromethane			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Bromoform			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Bromomethane			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Carbon disulfide			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Carbon tetrachloride			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Chlorobenzene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Chloroethane			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Chloroform			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Chloromethane			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	cis-1,2-Dichloroethene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	cis-1,3-Dichloropropene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Cyclohexane			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Dibromochloromethane			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Dichlorodifluoromethane			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Ethylbenzene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Methyl acetate			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Methyl tert-butyl ether			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Methylcyclohexane			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Methylene chloride			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Styrene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Tetrachloroethene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	5.5	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Toluene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	trans-1,2-Dichloroethene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	trans-1,3-Dichloropropene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Trichloroethene			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Trichlorofluoromethane			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Vinyl chloride			ug/kg	< 6.3	< 5.6	< 6.1	< 4.4	< 3.8	< 4.1	< 4.8	< 4.8	< 4.5	< 5.2	< 6.5	< 6.2	< 6.1	< 7.1	< 4.2	NA	NA	NA	NA	< 5.1
VOCs	Xylenes, Total			ug/kg	< 13	< 11	< 12	< 8.7	< 7.6	< 8.2	< 9.6	< 9.5	< 8.9	< 10	< 13	< 12	< 12	< 14	< 8.3	NA	NA	NA	NA	< 10

Table A3 - Sediment Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Location	SED-29	SED-29	SED-30	SED-30	SED-31	SED-31	SED-32	SED-32	SED-33	SED-33	SED-33	SED-34	SED-34	SED-35	SED-35	SED-36	SED-36
				Depth	6 - 12 in	12 - 16 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	12 - 16 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in
				Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Date	11/20/2019	11/20/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/22/2019	11/22/2019	11/22/2019	11/22/2019
Group	Analyte	RUSL	IUSL	Units																	
Radiological	Technetium-99	19	89400	pCi/g	0 ##	0 ##	2.43 #	0 ##	0.959 #	0 ##	5.06 #	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##
Radiological	Uranium-233/234	13	3310	pCi/g	1.81	1.23	5.71	1.41	2.81	2.96	3.71	10.0	5.06	1.27	1.06	3.13	2.93	2.26	1.59	4.40	1.50
Radiological	Uranium-235/236	8	39	pCi/g	0.208	0.175	0.191	0.0337 #	0.0669 #	0.110 #	0.0970 #	0.469	0.394	0.0959 #	0.0461 #	0.131 #	0.0487 #	0.179	0.0433 #	0.210	0.0881
Radiological	Uranium-238	14	179	pCi/g	1.55	1.16	2.51	1.28	1.75	1.69	2.00	3.28	2.52	1.56	1.09	1.81	1.73	1.59	1.66	2.38	1.05
Radiological	Uranium-234			ug/kg	< 18.4	< 15.1	< 20.4	< 21.1	< 14.5	< 12.4	< 19.9	< 18.4	< 16.5	< 14.7	< 14.1	< 17.6	< 16.3	< 14.0	< 13.2	< 14.2	< 13.5
Radiological	Uranium-235			ug/kg	21.4 J	17.6 J	85.9	21 J	45.6	18.1	72.9	195	305	21.8	16.5 J	44.9	36.3	36.8	28.9	70.2	19.1
Radiological	Uranium-238			ug/kg	2490	2490	5410	2690	3400	2220	4280	8370	14200	2750	2230	3650	3770	3920	3630	3970	1990
Radiological	Total Uranium Isotopes			ug/kg	2510	2510	5500	2710	3450	2240	4350	8570	14500	2770	2250	3690	3810	3960	3660	4040	2010
Chemical	Ammonia			mg/kg	287	230	394	392	286	118	480	576	248	117	67.3	397	336	158	80.1	153	99.1
Chemical	Nitrate as N			mg/kg	< 0.50	NA	< 0.50	< 0.50	< 0.50	< 0.50	1.1	< 0.50	< 0.50	< 0.50	NA	0.62	< 0.50	< 0.50	< 0.50	< 0.50	0.55
Chemical	Nitrate ion			mg/kg	< 2.07	< 1.48	< 2.09	< 2.30	< 1.44	< 1.30	< 2.02	< 1.88	< 1.74	< 1.54	1.17 J	< 1.93	< 1.72	1.05 J	1.03 J	< 1.44	< 1.32
Chemical	Fluoride			mg/kg	2.56	2.61	2.26	3.43	3.13	3.07	3.88	4.21	1.57 J	1.56	6.63	2.20	4.26	2.09	4.29	< 1.44	< 1.32
Chemical	Solids			%	53.0	63.2	50.0	44.7	66.7	74.4	49.0	57.0	56.6	65.6	NA	53.7	60.5	62.2	69.7	64.3	69.6
Metals	Aluminum			mg/kg	19800	17000	24000	21700	20400	15500	15200	17600	23200	18200	15500	23600	24200	24800	22100	15300	16100
Metals	Antimony			mg/kg	< 3.53	< 2.97	< 4.08	< 4.41	< 28.4	< 25.6	< 4.15	< 3.44	< 35.6	< 30.3	< 2.73	< 3.59	< 32.8	< 29.9	< 28	< 2.89	< 26.9
Metals	Arsenic			mg/kg	2.31 J	2.45 J	3.6 J	2.49 J	4.51	2.85 J	2.47 J	3.35 J	5.43	3.27 J	3.14 J	4.41 J	4.44 J	3.07 J	3.65 J	2.9 J	3.85 J
Metals	Barium			mg/kg	157	147	174	140	213	239	168	203	167	163	135	174	170	203	178	106	123
Metals	Beryllium			mg/kg	1.86	2.13	1.99	2.32	1.69	1.67	1.35	1.53	1.83	2.07	1.63	1.96	2.7	2.05	2.38	1.08	1.43
Metals	Cadmium			mg/kg	< 0.884	< 0.743	< 1.02	< 1.1	< 0.709	< 0.641	< 1.04	< 0.86	< 0.89	< 0.756	< 0.682	< 0.898	< 0.82	< 0.747	< 0.701	< 0.723	< 0.673
Metals	Calcium			mg/kg	441	272	424	448	796	679	1140	742	292	182	150	843	762	490	542	256	158
Metals	Chromium			mg/kg	28.3	25.3	32.3	28.3	26.4	22.8	22.6	25.9	28.3	25.6	23.4	28.7	32.7	33.5	27.3	19.3	19.7
Metals	Cobalt			mg/kg	5.92	3.7	8.26	4.64	14.3	16.4	9.95	10	11.4	13.8	6.84	15.9	17.5	17.4	19.1	9.08	11.7
Metals	Copper			mg/kg	17.6	13.1	24.1	17	20.5	17.3	19.6	22.3	21.9	19.3	12.9	26.3	24.8	23.2	24.3	14.9	17.1
Metals	Iron			mg/kg	12400	9170	15100	10000	28600	30000	18600	21300	29300	29100	16700	32800	32200	30300	35600	22000	30400
Metals	Lead			mg/kg	15.2	11.3	41.8	13.4	22.9	14.1	24.1	40	20.1	11.7	11.8	31.3	22.3	12.2	13.6	17.5	20.5
Metals	Magnesium			mg/kg	2180	971	3240	1400	3080	3110	2440	2570	3060	3590	1370	3110	4000	4450	4410	2320	2840
Metals	Manganese			mg/kg	128	66.2	207	122	788	1090	410	323	295	281	176	906	1020	461	819	260	322
Metals	Mercury			ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Nickel			mg/kg	10.8	8.4	13.4	9.48	12.2	10.7	11.2	13.9	12.9	12.1	7.21	13.2	14.2	14.7	13.7	8.87	9.48
Metals	Potassium			mg/kg	1060	297	1580	509	1760	1610	1090	1090	1460	1700	443	1320	1290	2130	2050	1200	1400
Metals	Selenium			mg/kg	< 5.3	< 4.46	< 6.12	< 6.61	< 4.26	< 3.84	1.17 J	0.904 J	< 5.34	< 4.54	< 4.09	1.05 J	1.23 J	< 4.48	< 4.2	< 4.34	< 4.04
Metals	Silver			mg/kg	< 8.84	< 7.43	< 10.2	< 11	< 7.09	< 6.41	< 10.4	< 8.6	< 8.9	< 7.56	< 6.82	< 8.98	< 8.2	< 7.47	< 7.01	< 7.23	< 6.73
Metals	Sodium			mg/kg	97.1	77.7	95.9	110	52.7	52.6	68.2	89.1	85.7	59.7	48.8	64.9	62.5	59.2	58.9	50.9	57.9
Metals	Thallium			mg/kg	< 35.3	< 29.7	< 40.8	< 44.1	< 28.4	< 25.6	< 41.5	< 34.4	< 35.6	< 30.3	< 27.3	< 35.9	< 32.8	< 29.9	< 28	< 28.9	< 26.9
Metals	Vanadium			mg/kg	58.6	40.3	71.9	51.2	73.4	61.9	53.5	64.3	81.1	74.4	56.4	86.1	89.1	74.1	82.1	50.3	60.2
Metals	Zinc			mg/kg	43.5	29.8	68.8	31.5	56.2	45.9	62.4	60.7	56.8	52.6	27.6	56.5	60.9	53.1	51.3	39	40.7
SVOCs	1,1'-Biphenyl			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	2,4,5-Trichlorophenol			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	2,4,6-Trichlorophenol			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	2,4-Dichlorophenol			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	2,4-Dimethylphenol			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	2,4-Dinitrophenol			ug/kg	< 320	NA	< 1600	< 1600	< 320	< 310	< 1600	< 1600	< 320	< 320	NA	< 1600	< 310	< 320	< 320	< 320	< 320
SVOCs	2,4-Dinitrotoluene			ug/kg	< 130	NA	< 620	< 620	< 130	< 120	< 640	< 620	< 130	< 130	NA	< 630	< 120	< 130	< 130	< 120	< 130
SVOCs	2,6-Dinitrotoluene			ug/kg	< 130	NA	< 620	< 620	< 130	< 120	< 640	< 620	< 130	< 130	NA	< 630	< 120	< 130	< 130	< 120	< 130
SVOCs	2-Chloronaphthalene			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	2-Chlorophenol			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	2-Methylnaphthalene			ug/kg	< 13	NA	< 63	< 64	< 13	< 13	< 65	< 63	< 13	< 13	NA	< 65	< 13	< 13	< 13	< 13	< 13
SVOCs	2-Methylphenol			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	2-Nitroaniline			ug/kg	< 130	NA	< 620	< 620	< 130	< 120	< 640	< 620	< 130	< 130	NA	< 630	< 120	< 130	< 130	< 120	< 130
SVOCs	2-Nitrophenol			ug/kg	< 130	NA	< 620	< 620	< 130	< 120	< 640	< 620	< 130	< 130	NA	< 630	< 120	< 130	< 130	< 120	< 130
SVOCs	3,3'-Dichlorobenzidine			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	3-Nitroaniline			ug/kg	< 130	NA	< 620	< 620	< 130	< 120	< 640	< 620	< 130	< 130	NA	< 630	< 120	< 130	< 130	< 120	< 130
SVOCs	4,6-Dinitro-2-methylphenol			ug/kg	< 320	NA	< 1600	< 1600	< 320	< 310	< 1600	< 1600	< 320	< 320	NA	< 1600	< 310	< 320	< 320	< 320	< 320
SVOCs	4-Bromophenyl phenyl ether			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	4-Chloro-3-methylphenol			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	4-Chloroaniline			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	4-Chlorophenyl phenyl ether			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	4-Methylphenol			ug/kg	< 130	NA	< 620	< 620	< 130	< 120	< 640	< 620	< 130	< 130	NA	< 630	< 120	< 130	< 130	< 120	< 130

Table A3 - Sediment Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Location	SED-29	SED-29	SED-30	SED-30	SED-31	SED-31	SED-32	SED-32	SED-33	SED-33	SED-33	SED-34	SED-34	SED-35	SED-35	SED-36	SED-36
				Depth	6 - 12 in	12 - 16 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	12 - 16 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in
				Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Date	11/20/2019	11/20/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/22/2019	11/22/2019	11/22/2019	11/22/2019
Group	Analyte	RUSL	IUSL	Units																	
SVOCs	4-Nitroaniline			ug/kg	< 130	NA	< 620	< 620	< 130	< 120	< 640	< 620	< 130	< 130	NA	< 630	< 120	< 130	< 130	< 120	< 130
SVOCs	4-Nitrophenol			ug/kg	< 320	NA	< 1600	< 1600	< 320	< 310	< 1600	< 1600	< 320	< 320	NA	< 1600	< 310	< 320	< 320	< 320	< 320
SVOCs	Acenaphthene			ug/kg	< 13	NA	< 63	< 64	< 13	< 13	< 65	< 63	< 13	< 13	NA	< 65	< 13	< 13	< 13	< 13	< 13
SVOCs	Acenaphthylene			ug/kg	< 13	NA	< 63	< 64	< 13	< 13	< 65	< 63	< 13	< 13	NA	< 65	< 13	< 13	< 13	< 13	< 13
SVOCs	Acetophenone			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Anthracene			ug/kg	< 13	NA	< 63	< 64	< 13	< 13	< 65	< 63	< 13	< 13	NA	< 65	< 13	< 13	< 13	< 13	< 13
SVOCs	Atrazine			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Benz(a)anthracene			ug/kg	< 13	NA	< 63	< 64	< 13	< 13	< 65	< 63	< 13	< 13	NA	< 65	< 13	< 13	< 13	< 13	< 13
SVOCs	Benzaldehyde			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Benzo(a)pyrene			ug/kg	< 13	NA	< 63	< 64	< 13	< 13	< 65	< 63	< 13	< 13	NA	< 65	< 13	< 13	< 13	< 13	< 13
SVOCs	Benzo(b)fluoranthene			ug/kg	< 13	NA	< 63	< 64	< 13	< 13	< 65	< 63	< 13	< 13	NA	< 65	< 13	< 13	< 13	< 13	< 13
SVOCs	Benzo(g,h,i)perylene			ug/kg	< 13	NA	< 63	< 64	< 13	< 13	< 65	< 63	< 13	< 13	NA	< 65	< 13	< 13	< 13	< 13	< 13
SVOCs	Benzo(k)fluoranthene			ug/kg	< 13	NA	< 63	< 64	< 13	< 13	< 65	< 63	< 13	< 13	NA	< 65	< 13	< 13	< 13	< 13	< 13
SVOCs	Bis(2-chloroethoxy)methane			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Bis(2-chloroethyl)ether			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Bis(2-chloroisopropyl)ether			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Bis(2-ethylhexyl)phthalate			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Butyl benzyl phthalate			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Caprolactam			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Carbazole			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Chrysene			ug/kg	< 13	NA	< 63	< 64	< 13	< 13	< 65	< 63	< 13	< 13	NA	< 65	< 13	< 13	< 13	< 13	< 13
SVOCs	Dibenz(a,h)anthracene			ug/kg	< 13	NA	< 63	< 64	< 13	< 13	< 65	< 63	< 13	< 13	NA	< 65	< 13	< 13	< 13	< 13	< 13
SVOCs	Dibenzofuran			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Diethyl phthalate			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Dimethyl phthalate			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Di-n-butyl phthalate			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Di-n-octyl phthalate			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Fluoranthene			ug/kg	< 13	NA	< 63	< 64	< 13	< 13	< 65	< 63	< 13	< 13	NA	< 65	< 13	< 13	< 13	< 13	< 13
SVOCs	Fluorene			ug/kg	< 13	NA	< 63	< 64	< 13	< 13	< 65	< 63	< 13	< 13	NA	< 65	< 13	< 13	< 13	< 13	< 13
SVOCs	Hexachlorobenzene			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Hexachlorobutadiene			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Hexachlorocyclopentadiene			ug/kg	< 320	NA	< 1600	< 1600	< 320	< 310	< 1600	< 1600	< 320	< 320	NA	< 1600	< 310	< 320	< 320	< 320	< 320
SVOCs	Hexachloroethane			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Indeno(1,2,3-cd)pyrene			ug/kg	< 13	NA	< 63	< 64	< 13	< 13	< 65	< 63	< 13	< 13	NA	< 65	< 13	< 13	< 13	< 13	< 13
SVOCs	Isophorone			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Naphthalene			ug/kg	< 13	NA	< 63	< 64	< 13	< 13	< 65	< 63	< 13	< 13	NA	< 65	< 13	< 13	< 13	< 13	< 13
SVOCs	Nitrobenzene			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	N-Nitrosodi-n-propylamine			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	N-Nitrosodiphenylamine			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Pentachlorophenol			ug/kg	< 320	NA	< 1600	< 1600	< 320	< 310	< 1600	< 1600	< 320	< 320	NA	< 1600	< 310	< 320	< 320	< 320	< 320
SVOCs	Phenanthrene			ug/kg	< 13	NA	< 63	< 64	< 13	< 13	< 65	< 63	< 13	< 13	NA	< 65	< 13	< 13	< 13	< 13	< 13
SVOCs	Phenol			ug/kg	< 65	NA	< 320	< 320	< 66	< 63	< 330	< 320	< 66	< 65	NA	< 330	< 64	< 65	< 65	< 64	< 66
SVOCs	Pyrene			ug/kg	< 13	NA	< 63	< 64	< 13	< 13	< 65	< 63	< 13	< 13	NA	< 65	< 13	< 13	< 13	< 13	< 13
VOCs	(1-Methylethyl)-Benzene			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	1,1,1-Trichloroethane			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	1,1,2,2-Tetrachloroethane			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	1,1,2-Trichlor-1,2,2-trifluoroethane			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	1,1,2-Trichloroethane			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	1,1-Dichloroethane			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	1,1-Dichloroethene			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	1,2,4-Trichlorobenzene			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	1,2-Dibromo-3-chloropropane			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	1,2-Dibromoethane			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	1,2-Dichlorobenzene			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	1,2-Dichloroethane			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	1,2-Dichloropropane			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	1,3-Dichlorobenzene			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	1,4-Dichlorobenzene			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0

Table A3 - Sediment Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Location	SED-29	SED-29	SED-30	SED-30	SED-31	SED-31	SED-32	SED-32	SED-33	SED-33	SED-33	SED-34	SED-34	SED-35	SED-35	SED-36	SED-36
				Depth	6 - 12 in	12 - 16 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	12 - 16 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in
				Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Date	11/20/2019	11/20/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/22/2019	11/22/2019	11/22/2019	11/22/2019
Group	Analyte	RUSL	IUSL	Units																	
VOCs	2-Butanone			ug/kg	< 18	< 24	26	25	< 16	< 17	38	76	< 20	45	NA	28	28	< 18	< 17	< 18	< 20
VOCs	2-Hexanone			ug/kg	< 8.9	< 12	< 11	< 12	< 8.0	< 8.3	< 12	< 11	< 10	< 11	NA	< 12	< 10	< 8.9	< 8.5	< 8.8	< 10
VOCs	4-Methyl-2-pentanone			ug/kg	< 8.9	< 12	< 11	< 12	< 8.0	< 8.3	< 12	< 11	< 10	< 11	NA	< 12	< 10	< 8.9	< 8.5	< 8.8	< 10
VOCs	Acetone			ug/kg	420	370	380	530	410	440	450	440	490	400	NA	200	180	390	310	370	350
VOCs	Benzene			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Bromodichloromethane			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Bromoform			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Bromomethane			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Carbon disulfide			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Carbon tetrachloride			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Chlorobenzene			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Chloroethane			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Chloroform			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Chloromethane			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	cis-1,2-Dichloroethene			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	cis-1,3-Dichloropropene			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Cyclohexane			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Dibromochloromethane			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Dichlorodifluoromethane			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Ethylbenzene			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Methyl acetate			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Methyl tert-butyl ether			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Methylcyclohexane			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Methylene chloride			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Styrene			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Tetrachloroethene			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Toluene			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	trans-1,2-Dichloroethene			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	trans-1,3-Dichloropropene			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Trichloroethene			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Trichlorofluoromethane			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Vinyl chloride			ug/kg	< 4.5	< 6.0	< 5.3	< 6.1	< 4.0	< 4.2	< 5.9	< 5.4	< 5.0	< 5.6	NA	< 5.9	< 5.2	< 4.4	< 4.3	< 4.4	< 5.0
VOCs	Xylenes, Total			ug/kg	< 8.9	< 12	< 11	< 12	< 8.0	< 8.3	< 12	< 11	< 10	< 11	NA	< 12	< 10	< 8.9	< 8.5	< 8.8	< 10

Table A3 - Sediment Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Location	SED-37	SED-37	SED-37	SED-38	SED-39	SED-40	SED-41	SED-42	SED-43	SED-44	SED-45	SED-46	SED-47	SED-48	SED-48	SED-49
				Depth	0 - 6 in	6 - 12 in	6 - 12 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in
				Type	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	FD	N
				Date	11/22/2019	11/22/2019	11/22/2019	11/22/2019	11/22/2019	11/22/2019	11/25/2019	11/25/2019	11/25/2019	11/25/2019	11/25/2019	11/25/2019	11/25/2019	11/26/2019	11/26/2019	11/26/2019	11/26/2019
Group	Analyte	RUSL	IUSL	Units																
Radiological	Technetium-99	19	89400	pCi/g	0 ##	0 ##	0 ##	16.5 #	0 ##	0 ##	0.995 #	5.94 #	0 ##	6.23 #	2.83 #	0 ##	0 ##	0 ##	0 ##	0 ##
Radiological	Uranium-233/234	13	3310	pCi/g	4.88	2.04	2.33	3.26	1.86	1.90	1.72	6.12	47.5	8.86	5.86	4.02	3.18	2.57	2.43	4.59
Radiological	Uranium-235/236	8	39	pCi/g	0.254	0.149	0.0456 #	0.204	0.0122 #	0.131	0.0394 #	0.285	2.32	0.377	0.268	0.179	0.232	0.0910 #	0.0144 #	0.215
Radiological	Uranium-238	14	179	pCi/g	1.78	1.62	1.38	1.68	1.70	1.24	1.41	2.23	12.1	2.62	2.20	2.15	1.46	1.98	1.62	2.11
Radiological	Uranium-234			ug/kg	< 15.9	< 14.5	< 15.0	< 34.6	< 15.9	< 17.4	< 26.9	< 52.5	< 55.9	< 32.5	< 34.5	< 30.6	< 41.0	< 25.8	< 29.6	< 37.2
Radiological	Uranium-235			ug/kg	102	67.4	31.7	31.8 J	26.4	28.4	17.8 J	156	862	238	100	48.9	44 J	40.3	37.4 J	81.9
Radiological	Uranium-238			ug/kg	4850	3930	2910	3380	3040	3020	2390	7220	31300	9690	4920	3190	2560	3140	2650	4840
Radiological	Total Uranium Isotopes			ug/kg	4950	4000	2940	3410	3070	3050	2410	7380	32200	9930	5020	3240	2600	3180	2690	4920
Chemical	Ammonia			mg/kg	451	127	178	576	222	242	466	928	774	389	586	371	1540	806	1080	209
Chemical	Nitrate as N			mg/kg	< 0.50	< 0.50	< 0.50	0.66	< 0.5	< 0.50	0.63	0.83	0.50	< 0.50	0.82	0.62	0.59	0.63	0.70	0.58
Chemical	Nitrate ion			mg/kg	< 1.57	< 1.50	< 1.57	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical	Fluoride			mg/kg	1.35 J	1.60	0.858 J	5.17	1.90	1.65 J	2.68 J	5.15 J	14.9	3.04 J	7.90	3.41	6.02	2.94	3.46	5.44
Chemical	Solids			%	54.0	66.1	64.5	72.5	57.4	58.9	32.6	18.4	17.5	26.9	34.7	34.5	22.6	47.5	36.3	29.8
Metals	Aluminum			mg/kg	14800	18700	19000	23200	30400	20800	27100	27500	15200	27000	19500	25100	22000	26400	20300	14300
Metals	Antimony			mg/kg	< 3.27	< 28.3	< 30	< 6.96	< 3.32	< 3.48	< 5.62	< 10.3	< 11.5	< 7.06	< 6.5	< 6.1	< 8.72	< 5.01	< 5.68	< 7.62
Metals	Arsenic			mg/kg	3.34 J	3.7 J	3.88 J	4.3 J	4.05 J	3.47 J	4.25 J	6.15 J	3.57 J	4.38 J	2.38 J	3.99 J	4.19 J	3.85 J	3.38 J	2.12 J
Metals	Barium			mg/kg	122	134	142	206	167	137	214	220	105	207	150	103	188	154	146	69.2
Metals	Beryllium			mg/kg	1.06	1.38	1.5	2.39	3	1.47	2.01	1.67 J	0.858 J	2.32	1.32 J	1.29 J	1.32 J	1.35	1.19 J	0.727 J
Metals	Cadmium			mg/kg	< 0.817	< 0.706	< 0.749	< 1.74	< 0.83	< 0.87	< 1.4	< 2.58	< 2.87	< 1.76	< 1.62	< 1.53	< 2.18	< 1.25	< 1.42	< 1.9
Metals	Calcium			mg/kg	394	346	335	914	297	429	754	1520	813	679	1170	620	737	408	435	258
Metals	Chromium			mg/kg	18.5	22.6	23	24.9	35.4	26.5	29.4	31.4	15.6	29.5	23.6	26	27	26.9	23	13.9
Metals	Cobalt			mg/kg	6.86	8.53	8.88	14.3	13	10	26.7	17.8	4.78	10.2	7.42	5.51	7.78	7.53	6.39	3.57
Metals	Copper			mg/kg	14.7	18.2	19.4	22.1	24.6	19.6	25.8	30.9	16.7	21.7	18.9	19.6	22.3	26.4	26.1	11.3
Metals	Iron			mg/kg	20500	25700	26800	18400	19900	16100	24300	25100	8080	17100	11900	12100	13200	12400	9320	6750
Metals	Lead			mg/kg	30.1	20.7	22	13.6	21.1	20.4	21.9	105	16	18.8	40.4	33.8	43.1	37.4	80	11.5
Metals	Magnesium			mg/kg	2010	2560	2640	2260	3330	2700	2610	1910	1200	2080	2030	1620	1980	1670	1250	1040
Metals	Manganese			mg/kg	215	219	230	498	210	250	395	463	131	254	224	104	242	249	286	75.9
Metals	Mercury			ug/kg	NA	NA	NA	72.9 J	56.8 J	55.5 J	72.4 J	119 J	< 273	69.9 J	107 J	< 141	106 J	107 J	118 J	87.2 J
Metals	Nickel			mg/kg	8.54	10	10.2	13.9	16.9	11.3	16.9	16.8	10.2	17.5	11.8	10.6	12.9	11.6	9.87	6.89
Metals	Potassium			mg/kg	1050	1130	1160	1210	1400	1420	1580	1150	684	1230	1010	946	1080	929	708	621
Metals	Selenium			mg/kg	0.899 J	< 4.24	< 4.5	< 10.4	< 4.98	< 5.22	< 8.43	< 15.5	< 17.2	< 10.6	< 9.74	< 9.15	< 13.1	< 7.51	< 8.51	< 11.4
Metals	Silver			mg/kg	< 8.17	< 7.06	< 7.49	< 17.4	< 8.3	< 8.7	< 14	< 25.8	< 2.87	< 17.6	< 16.2	< 15.3	< 2.18	< 12.5	< 1.42	< 1.9
Metals	Sodium			mg/kg	47	51	60.2	83.1 J	59.9	48.5	69 J	88.6 J	83.9 J	80.7 J	126	105	129	93.6	112	78.4 J
Metals	Thallium			mg/kg	< 32.7	< 28.3	< 30	< 69.6	< 33.2	< 34.8	< 56.2	< 103	< 11.5	< 70.6	< 65	< 61	< 87.2	< 50.1	< 56.8	< 7.62
Metals	Vanadium			mg/kg	48.5	67.2	67.9	54.3	71.2	62.7	85.8	95.1	36.5	68.8	49.9	68.1	50.3	65.9	57.7	32.4
Metals	Zinc			mg/kg	37.2	41.1	42	54.5	72.1	49.2	68.9	81	53	56.1	49.1	38.6	49.6	46.4	42.1	27
SVOCs	1,1'-Biphenyl			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	2,4,5-Trichlorophenol			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	2,4,6-Trichlorophenol			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	2,4-Dichlorophenol			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	2,4-Dimethylphenol			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	2,4-Dinitrophenol			ug/kg	< 320	< 320	< 310	< 1600	< 330	< 1600	< 330	< 320	< 310	< 320	< 320	< 320	< 320	< 320	< 1600	< 1600
SVOCs	2,4-Dinitrotoluene			ug/kg	< 130	< 130	< 120	< 640	< 130	< 630	< 130	< 130	< 120	< 130	< 130	< 130	< 120	< 130	< 630	< 630
SVOCs	2,6-Dinitrotoluene			ug/kg	< 130	< 130	< 120	< 640	< 130	< 630	< 130	< 130	< 120	< 130	< 130	< 130	< 120	< 130	< 630	< 630
SVOCs	2-Chloronaphthalene			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	2-Chlorophenol			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	2-Methylnaphthalene			ug/kg	< 13	< 13	< 13	< 65	< 13	< 64	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 65	< 64
SVOCs	2-Methylphenol			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	2-Nitroaniline			ug/kg	< 130	< 130	< 120	< 640	< 130	< 630	< 130	< 130	< 120	< 130	< 130	< 130	< 120	< 130	< 630	< 630
SVOCs	2-Nitrophenol			ug/kg	< 130	< 130	< 120	< 640	< 130	< 630	< 130	< 130	< 120	< 130	< 130	< 130	< 120	< 130	< 630	< 630
SVOCs	3,3'-Dichlorobenzidine			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	3-Nitroaniline			ug/kg	< 130	< 130	< 120	< 640	< 130	< 630	< 130	< 130	< 120	< 130	< 130	< 130	< 120	< 130	< 630	< 630
SVOCs	4,6-Dinitro-2-methylphenol			ug/kg	< 320	< 320	< 310	< 1600	< 330	< 1600	< 330	< 320	< 310	< 320	< 320	< 320	< 320	< 320	< 1600	< 1600
SVOCs	4-Bromophenyl phenyl ether			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	4-Chloro-3-methylphenol			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	4-Chloroaniline			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	4-Chlorophenyl phenyl ether			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	4-Methylphenol			ug/kg	< 130	< 130	< 120	< 640	< 130	< 630	< 130	< 130	< 120	< 130	< 130	< 130	< 120	< 130	< 630	< 630

Table A3 - Sediment Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Location	SED-37	SED-37	SED-37	SED-38	SED-39	SED-40	SED-41	SED-42	SED-43	SED-44	SED-45	SED-46	SED-47	SED-48	SED-48	SED-49
				Depth	0 - 6 in	6 - 12 in	6 - 12 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in
				Type	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	FD	N
				Date	11/22/2019	11/22/2019	11/22/2019	11/22/2019	11/22/2019	11/22/2019	11/25/2019	11/25/2019	11/25/2019	11/25/2019	11/25/2019	11/25/2019	11/26/2019	11/26/2019	11/26/2019	11/26/2019
Group	Analyte	RUSL	IUSL	Units																
SVOCs	4-Nitroaniline			ug/kg	< 130	< 130	< 120	< 640	< 130	< 630	< 130	< 130	< 120	< 130	< 130	< 130	< 120	< 130	< 630	< 630
SVOCs	4-Nitrophenol			ug/kg	< 320	< 320	< 310	< 1600	< 330	< 1600	< 330	< 320	< 310	< 320	< 320	< 320	< 320	< 320	< 1600	< 1600
SVOCs	Acenaphthene			ug/kg	< 13	< 13	< 13	< 65	< 13	< 64	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 65	< 64
SVOCs	Acenaphthylene			ug/kg	< 13	< 13	< 13	< 65	< 13	< 64	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 65	< 64
SVOCs	Acetophenone			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	Anthracene			ug/kg	< 13	< 13	< 13	< 65	< 13	< 64	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 65	< 64
SVOCs	Atrazine			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	Benz(a)anthracene			ug/kg	< 13	< 13	< 13	< 65	< 13	< 64	19	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 65	< 64
SVOCs	Benzaldehyde			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	76	< 64	< 64	< 65	< 330	< 320
SVOCs	Benzo(a)pyrene			ug/kg	< 13	< 13	< 13	< 65	< 13	< 64	21	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 65	< 64
SVOCs	Benzo(b)fluoranthene			ug/kg	< 13	< 13	< 13	< 65	< 13	< 64	28	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 65	< 64
SVOCs	Benzo(g,h,i)perylene			ug/kg	< 13	< 13	< 13	< 65	< 13	< 64	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 65	< 64
SVOCs	Benzo(k)fluoranthene			ug/kg	< 13	< 13	< 13	< 65	< 13	< 64	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 65	< 64
SVOCs	Bis(2-chloroethoxy)methane			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	Bis(2-chloroethyl)ether			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	Bis(2-chloroisopropyl)ether			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	Bis(2-ethylhexyl)phthalate			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	Butyl benzyl phthalate			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	Caprolactam			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	Carbazole			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	Chrysene			ug/kg	< 13	< 13	< 13	< 65	< 13	< 64	17	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 65	< 64
SVOCs	Dibenz(a,h)anthracene			ug/kg	< 13	< 13	< 13	< 65	< 13	< 64	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 65	< 64
SVOCs	Dibenzofuran			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	Diethyl phthalate			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	Dimethyl phthalate			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	Di-n-butyl phthalate			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	Di-n-octyl phthalate			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	Fluoranthene			ug/kg	< 13	< 13	< 13	< 65	< 13	< 64	28	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 65	< 64
SVOCs	Fluorene			ug/kg	< 13	< 13	< 13	< 65	< 13	< 64	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 65	< 64
SVOCs	Hexachlorobenzene			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	Hexachlorobutadiene			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	Hexachlorocyclopentadiene			ug/kg	< 320	< 320	< 310	< 1600	< 330	< 1600	< 330	< 320	< 310	< 320	< 320	< 320	< 320	< 320	< 1600	< 1600
SVOCs	Hexachloroethane			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	Indeno(1,2,3-cd)pyrene			ug/kg	< 13	< 13	< 13	< 65	< 13	< 64	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 65	< 64
SVOCs	Isophorone			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	Naphthalene			ug/kg	< 13	< 13	< 13	< 65	< 13	< 64	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 65	< 64
SVOCs	Nitrobenzene			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	N-Nitrosodi-n-propylamine			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	N-Nitrosodiphenylamine			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	Pentachlorophenol			ug/kg	< 320	< 320	< 310	< 1600	< 330	< 1600	< 330	< 320	< 310	< 320	< 320	< 320	< 320	< 320	< 1600	< 1600
SVOCs	Phenanthrene			ug/kg	< 13	< 13	< 13	< 65	< 13	< 64	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 65	< 64
SVOCs	Phenol			ug/kg	< 65	< 65	< 64	< 330	< 66	< 320	< 66	< 66	< 63	< 66	< 65	< 64	< 64	< 65	< 330	< 320
SVOCs	Pyrene			ug/kg	< 13	< 13	< 13	< 65	< 13	< 64	27	< 13	< 13	< 13	< 13	< 13	< 13	< 13	< 65	< 64
VOCs	(1-Methylethyl)-Benzene			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	1,1,1-Trichloroethane			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	1,1,2,2-Tetrachloroethane			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	1,1,2-Trichlor-1,2,2-trifluoroethane			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	1,1,2-Trichloroethane			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	1,1-Dichloroethane			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	1,1-Dichloroethene			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	1,2,4-Trichlorobenzene			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	1,2-Dibromo-3-chloropropane			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	1,2-Dibromoethane			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	1,2-Dichlorobenzene			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	1,2-Dichloroethane			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	1,2-Dichloropropane			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	1,3-Dichlorobenzene			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	1,4-Dichlorobenzene			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1

Table A3 - Sediment Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Location	SED-37	SED-37	SED-37	SED-38	SED-39	SED-40	SED-41	SED-42	SED-43	SED-44	SED-45	SED-46	SED-47	SED-48	SED-48	SED-49
				Depth	0 - 6 in	6 - 12 in	6 - 12 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in	0 - 6 in
				Type	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	FD	N
				Date	11/22/2019	11/22/2019	11/22/2019	11/22/2019	11/22/2019	11/22/2019	11/25/2019	11/25/2019	11/25/2019	11/25/2019	11/25/2019	11/25/2019	11/26/2019	11/26/2019	11/26/2019	11/26/2019
Group	Analyte	RUSL	IUSL	Units																
VOCs	2-Butanone			ug/kg	< 20	< 18	< 18	< 24	< 19	< 21	< 26	< 27	< 29	< 29	29	< 26	160	39	23	< 28
VOCs	2-Hexanone			ug/kg	< 9.8	< 8.9	< 8.9	< 12	< 9.7	< 11	< 13	< 14	< 14	< 14	< 12	< 13	< 14	< 11	< 10	< 14
VOCs	4-Methyl-2-pentanone			ug/kg	< 9.8	< 8.9	< 8.9	< 12	< 9.7	< 11	< 13	< 14	< 14	< 14	< 12	< 13	< 14	< 11	< 10	< 14
VOCs	Acetone			ug/kg	300	350	360	400	< 19	260	96	59	79	57	130	110	410	220	280	300
VOCs	Benzene			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Bromodichloromethane			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Bromoform			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Bromomethane			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Carbon disulfide			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Carbon tetrachloride			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Chlorobenzene			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Chloroethane			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Chloroform			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Chloromethane			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	cis-1,2-Dichloroethene			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	cis-1,3-Dichloropropene			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Cyclohexane			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Dibromochloromethane			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Dichlorodifluoromethane			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Ethylbenzene			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Methyl acetate			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Methyl tert-butyl ether			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Methylcyclohexane			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Methylene chloride			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Styrene			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Tetrachloroethene			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Toluene			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	trans-1,2-Dichloroethene			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	trans-1,3-Dichloropropene			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Trichloroethene			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Trichlorofluoromethane			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Vinyl chloride			ug/kg	< 4.9	< 4.5	< 4.4	< 6	< 4.9	< 5.3	< 6.5	< 6.8	< 7.2	< 7.2	< 6.1	< 6.5	< 6.9	< 5.3	< 5.2	< 7.1
VOCs	Xylenes, Total			ug/kg	< 9.8	< 8.9	< 8.9	< 12	< 9.7	< 11	< 13	< 14	< 14	< 14	< 12	< 13	< 14	< 11	< 10	< 14

Table A3 - Sediment Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Location	SED-50	SED-51	SED-51	SED-52	SED-52	SED-53	SED-53	SED-54	SED-54	SED-55	SED-55	SED-56	SED-56	SED-56
				Depth	0 - 6 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	0 - 6 in	6 - 12 in
				Type	N	N	N	N	N	N	N	N	N	N	N	N	FD	N
				Date	11/26/2019	11/27/2019	11/27/2019	11/27/2019	11/27/2019	11/27/2019	11/27/2019	12/2/2019	12/2/2019	12/2/2019	12/2/2019	12/2/2019	12/2/2019	12/2/2019
Group	Analyte	RUSL	IUSL	Units														
Radiological	Technetium-99	19	89400	pCi/g	0.910 #	0 ##	4.89 #	0 ##	0 ##	0 ##	0 ##	1.51 #	0 ##	6.19 #	0 ##	2.53 #	0 ##	0 ##
Radiological	Uranium-233/234	13	3310	pCi/g	3.64	2.10	1.27	1.77	1.88	2.15	2.06	1.78	1.48	2.05	1.62	2.02	2.82	1.89
Radiological	Uranium-235/236	8	39	pCi/g	0.104 #	0.178 #	0.0695 #	0.308 #	0.0494 #	0.194	0.0708 #	0.119 #	0.120 #	0 ##	0.155	0.214	0.115 #	0.0276 #
Radiological	Uranium-238	14	179	pCi/g	1.86	1.42	1.15	1.72	1.45	1.45	2.34	1.36	1.87	1.74	1.62	1.40	2.11	1.72
Radiological	Uranium-234			ug/kg	< 31.4	< 31.2	< 28.9	< 21.8	< 23.3	< 17.3	< 14.1	< 37.1	< 25.3	< 18.3	< 16.0	< 17.2	< 18.8	< 16.4
Radiological	Uranium-235			ug/kg	72.1	28.2 J	20.6 J	26.8 J	29.5 J	29.2	24.7	22.6 J	26 J	25.4 J	23.2	23 J	24.5 J	21.7 J
Radiological	Uranium-238			ug/kg	4470	2610	2450	2530	2690	3200	3290	2870	2990	3450	3230	3100	3440	2970
Radiological	Total Uranium Isotopes			ug/kg	4540	2640	2470	2560	2720	3230	3310	2890	3020	3480	3250	3120	3460	2990
Chemical	Ammonia			mg/kg	750	692	401	465	271	387	196	854	536	321	223	449	325	244
Chemical	Nitrate as N			mg/kg	0.53	0.72	0.51	< 0.50	0.61	< 0.50	< 0.50	0.63	0.68	< 0.50	< 0.50	0.52	0.74	< 0.50
Chemical	Nitrate ion			mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical	Fluoride			mg/kg	4.67	2.77 J	2.96	1.48 J	1.69 J	0.838 J	0.607 J	1.93 J	1.01 J	< 1.88	< 1.76	< 1.89	< 1.96	0.690 J
Chemical	Solids			%	30.7	34.1	31.5	38.5	30.0	54.0	61.4	23.1	33.7	53.5	61.4	49.9	52.4	62.6
Metals	Aluminum			mg/kg	22500	20300	19900	24300	23900	23100	24100	27300	26800	29400	29300	27000	27200	27300
Metals	Antimony			mg/kg	< 6.52	< 5.8	< 5.66	< 4.58	< 4.27	< 3.46	< 31.3	< 7.44	< 5.3	< 3.66	< 3.04	< 3.6	< 3.47	< 3.26
Metals	Arsenic			mg/kg	3.64 J	2.25 J	3.3 J	4.4 J	3.09 J	3.44 J	3.75 J	6.54 J	4.47 J	4.6 J	4.56	4.54 J	4.87 J	5.26
Metals	Barium			mg/kg	178	98	191	144	146	146	151	144	124	153	159	166	170	190
Metals	Beryllium			mg/kg	1.62 J	1.17 J	1.93	1.6	1.93	1.77	2.52	1.61 J	1.64	1.88	3.39	2.21	2.28	4.25
Metals	Cadmium			mg/kg	< 1.63	< 1.45	< 1.41	< 1.15	< 1.07	< 0.865	< 0.782	< 1.86	< 1.32	< 0.914	< 0.759	< 0.899	< 0.867	< 0.815
Metals	Calcium			mg/kg	1120	335	304	452	317	523	337	348	187	191	190	289	297	202
Metals	Chromium			mg/kg	25.7	25.1	26.1	29.7	34.6	30.2	32.5	34.5	33.4	36.4	35.9	33.4	34.1	33
Metals	Cobalt			mg/kg	10.5	5.3	11.5	7.14	10.3	8.5	13.7	6.78	7.1	8.47	15.6	8.86	9.36	13.4
Metals	Copper			mg/kg	25.8	19	20.8	20	19.6	23.5	21.8	25.6	21.1	24.3	26.8	25.4	26.4	28.6
Metals	Iron			mg/kg	15300	9550	16100	17000	18500	15400	25200	18100	15800	19100	21900	17100	18700	21400
Metals	Lead			mg/kg	32.1	24.2	17	23.9	23.4	26.9	16.9	29.8	25.9	33.9	17	31.5	30	18.5
Metals	Magnesium			mg/kg	2440	1940	2810	2700	3020	2760	3810	2390	2700	2920	3650	2740	3040	3960
Metals	Manganese			mg/kg	368	128	261	156	186	258	281	127	114	175	264	173	194	250
Metals	Mercury			ug/kg	108 J	< 148	< 130	57.1 J	58.5 J	82.5 J	48.3 J	104 J	65.2 J	76.6 J	54.2 J	74.6 J	83.7	41 J
Metals	Nickel			mg/kg	13.8	9.14	12	11.9	11.6	11.6	13.2	12.1	12.6	13.5	15.5	13.5	13.9	17.5
Metals	Potassium			mg/kg	1060	1120	1560	1500	850	1350	1150	1310	1410	1370	834	1170	1280	1150
Metals	Selenium			mg/kg	< 9.78	2 J	< 8.48	< 6.87	< 6.4	1.26 J	1.2 J	< 11.2	1.34 J	< 5.48	1.24 J	1.3 J	< 5.2	< 4.89
Metals	Silver			mg/kg	< 16.3	< 1.45	< 14.1	< 11.5	< 10.7	< 8.65	< 7.82	< 18.6	< 13.2	< 9.14	< 7.59	< 8.99	< 8.67	< 8.15
Metals	Sodium			mg/kg	71.5 J	91.1	82.4	71.9	76.6	53.8	52.9	88 J	70.6	84.1	87	63.2	71.3	69.8
Metals	Thallium			mg/kg	< 65.2	< 58	< 56.6	< 45.8	< 42.7	< 3.46	< 31.3	< 74.4	< 53	< 36.6	< 30.4	< 36	< 34.7	< 3.26
Metals	Vanadium			mg/kg	62.1	54.3	64.8	71.2	81	71	87.6	77.1	78.9	93.2	86.2	81.8	86.9	79.8
Metals	Zinc			mg/kg	67.3	34.7	55.7	51.5	54.7	52.7	63.9	54.1	53.4	56.1	70.8	55.6	59.1	83.5
SVOCs	1,1'-Biphenyl			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	2,4,5-Trichlorophenol			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	2,4,6-Trichlorophenol			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	2,4-Dichlorophenol			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	2,4-Dimethylphenol			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	2,4-Dinitrophenol			ug/kg	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600
SVOCs	2,4-Dinitrotoluene			ug/kg	< 640	< 620	< 630	< 640	< 620	< 640	< 630	< 630	< 620	< 630	< 640	< 640	< 640	< 640
SVOCs	2,6-Dinitrotoluene			ug/kg	< 640	< 620	< 630	< 640	< 620	< 640	< 630	< 630	< 620	< 630	< 640	< 640	< 640	< 640
SVOCs	2-Chloronaphthalene			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	2-Chlorophenol			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	2-Methylnaphthalene			ug/kg	< 66	< 63	< 64	< 66	< 64	< 65	< 65	< 65	< 63	< 64	< 65	< 66	< 65	< 66
SVOCs	2-Methylphenol			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	2-Nitroaniline			ug/kg	< 640	< 620	< 630	< 640	< 620	< 640	< 630	< 630	< 620	< 630	< 640	< 640	< 640	< 640
SVOCs	2-Nitrophenol			ug/kg	< 640	< 620	< 630	< 640	< 620	< 640	< 630	< 630	< 620	< 630	< 640	< 640	< 640	< 640
SVOCs	3,3'-Dichlorobenzidine			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	3-Nitroaniline			ug/kg	< 640	< 620	< 630	< 640	< 620	< 640	< 630	< 630	< 620	< 630	< 640	< 640	< 640	< 640
SVOCs	4,6-Dinitro-2-methylphenol			ug/kg	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600
SVOCs	4-Bromophenyl phenyl ether			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	4-Chloro-3-methylphenol			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	4-Chloroaniline			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	4-Chlorophenyl phenyl ether			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	4-Methylphenol			ug/kg	< 640	< 620	< 630	< 640	< 620	< 640	< 630	< 630	< 620	< 630	< 640	< 640	< 640	< 640

Table A3 - Sediment Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Location	SED-50	SED-51	SED-51	SED-52	SED-52	SED-53	SED-53	SED-54	SED-54	SED-55	SED-55	SED-56	SED-56	SED-56
				Depth	0 - 6 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	0 - 6 in	6 - 12 in
				Type	N	N	N	N	N	N	N	N	N	N	N	N	FD	N
				Date	11/26/2019	11/27/2019	11/27/2019	11/27/2019	11/27/2019	11/27/2019	11/27/2019	12/2/2019	12/2/2019	12/2/2019	12/2/2019	12/2/2019	12/2/2019	12/2/2019
Group	Analyte	RUSL	IUSL	Units														
SVOCs	4-Nitroaniline			ug/kg	< 640	< 620	< 630	< 640	< 620	< 640	< 630	< 630	< 620	< 630	< 640	< 640	< 640	< 640
SVOCs	4-Nitrophenol			ug/kg	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600
SVOCs	Acenaphthene			ug/kg	< 66	< 63	< 64	< 66	< 64	< 65	< 65	< 65	< 63	< 64	< 65	< 66	< 65	< 66
SVOCs	Acenaphthylene			ug/kg	< 66	< 63	< 64	< 66	< 64	< 65	< 65	< 65	< 63	< 64	< 65	< 66	< 65	< 66
SVOCs	Acetophenone			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Anthracene			ug/kg	< 66	< 63	< 64	< 66	< 64	< 65	< 65	< 65	< 63	< 64	< 65	< 66	< 65	< 66
SVOCs	Atrazine			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Benz(a)anthracene			ug/kg	< 66	< 63	< 64	< 66	< 64	< 65	< 65	< 65	< 63	< 64	< 65	< 66	< 65	< 66
SVOCs	Benzaldehyde			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Benzo(a)pyrene			ug/kg	< 66	< 63	< 64	< 66	< 64	< 65	< 65	< 65	< 63	< 64	< 65	< 66	< 65	< 66
SVOCs	Benzo(b)fluoranthene			ug/kg	< 66	< 63	< 64	< 66	< 64	< 65	< 65	< 65	< 63	< 64	< 65	< 66	< 65	< 66
SVOCs	Benzo(g,h,i)perylene			ug/kg	< 66	< 63	< 64	< 66	< 64	< 65	< 65	< 65	< 63	< 64	< 65	< 66	< 65	< 66
SVOCs	Benzo(k)fluoranthene			ug/kg	< 66	< 63	< 64	< 66	< 64	< 65	< 65	< 65	< 63	< 64	< 65	< 66	< 65	< 66
SVOCs	Bis(2-chloroethoxy)methane			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Bis(2-chloroethyl)ether			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Bis(2-chloroisopropyl)ether			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Bis(2-ethylhexyl)phthalate			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Butyl benzyl phthalate			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Caprolactam			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Carbazole			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Chrysene			ug/kg	< 66	< 63	< 64	< 66	< 64	< 65	< 65	< 65	< 63	< 64	< 65	< 66	< 65	< 66
SVOCs	Dibenz(a,h)anthracene			ug/kg	< 66	< 63	< 64	< 66	< 64	< 65	< 65	< 65	< 63	< 64	< 65	< 66	< 65	< 66
SVOCs	Dibenzofuran			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Diethyl phthalate			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Dimethyl phthalate			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Di-n-butyl phthalate			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Di-n-octyl phthalate			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Fluoranthene			ug/kg	< 66	< 63	< 64	< 66	< 64	< 65	< 65	< 65	< 63	< 64	< 65	< 66	< 65	< 66
SVOCs	Fluorene			ug/kg	< 66	< 63	< 64	< 66	< 64	< 65	< 65	< 65	< 63	< 64	< 65	< 66	< 65	< 66
SVOCs	Hexachlorobenzene			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Hexachlorobutadiene			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Hexachlorocyclopentadiene			ug/kg	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600
SVOCs	Hexachloroethane			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Indeno(1,2,3-cd)pyrene			ug/kg	< 66	< 63	< 64	< 66	< 64	< 65	< 65	< 65	< 63	< 64	< 65	< 66	< 65	< 66
SVOCs	Isophorone			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Naphthalene			ug/kg	< 66	< 63	< 64	< 66	< 64	< 65	< 65	< 65	< 63	< 64	< 65	< 66	< 65	< 66
SVOCs	Nitrobenzene			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	N-Nitrosodi-n-propylamine			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	N-Nitrosodiphenylamine			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Pentachlorophenol			ug/kg	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600
SVOCs	Phenanthrene			ug/kg	< 66	< 63	< 64	< 66	< 64	< 65	< 65	< 65	< 63	< 64	< 65	< 66	< 65	< 66
SVOCs	Phenol			ug/kg	< 330	< 320	< 320	< 330	< 320	< 330	< 330	< 330	< 320	< 320	< 330	< 330	< 330	< 330
SVOCs	Pyrene			ug/kg	< 66	< 63	< 64	< 66	< 64	< 65	< 65	< 65	< 63	< 64	< 65	< 66	< 65	< 66
VOCs	(1-Methylethyl)-Benzene			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	1,1,1-Trichloroethane			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	1,1,2,2-Tetrachloroethane			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	1,1,2-Trichlor-1,2,2-trifluoroethane			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	1,1,2-Trichloroethane			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	1,1-Dichloroethane			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	1,1-Dichloroethene			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	1,2,4-Trichlorobenzene			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	1,2-Dibromo-3-chloropropane			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	1,2-Dibromoethane			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	1,2-Dichlorobenzene			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	1,2-Dichloroethane			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	1,2-Dichloropropane			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	1,3-Dichlorobenzene			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	1,4-Dichlorobenzene			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5

Table A3 - Sediment Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Location	SED-50	SED-51	SED-51	SED-52	SED-52	SED-53	SED-53	SED-54	SED-54	SED-55	SED-55	SED-56	SED-56	SED-56
				Depth	0 - 6 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	6 - 12 in	0 - 6 in	0 - 6 in	6 - 12 in
				Type	N	N	N	N	N	N	N	N	N	N	N	N	FD	N
				Date	11/26/2019	11/27/2019	11/27/2019	11/27/2019	11/27/2019	11/27/2019	11/27/2019	12/2/2019	12/2/2019	12/2/2019	12/2/2019	12/2/2019	12/2/2019	12/2/2019
Group	Analyte	RUSL	IUSL	Units														
VOCs	2-Butanone			ug/kg	190	43	< 27	31	< 26	< 22	< 21	42	< 25	< 19	< 20	< 21	< 19	< 14
VOCs	2-Hexanone			ug/kg	< 13	< 13	< 13	< 12	< 13	< 11	< 10	< 13	< 13	< 9.7	< 9.8	< 10	< 9.7	< 7.1
VOCs	4-Methyl-2-pentanone			ug/kg	< 13	< 13	< 13	< 12	< 13	< 11	< 10	< 13	< 13	< 9.7	< 9.8	< 10	< 9.7	< 7.1
VOCs	Acetone			ug/kg	370	330	180	100	< 26	< 22	170	330	39	< 19	200	220	23	< 14
VOCs	Benzene			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Bromodichloromethane			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Bromoform			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Bromomethane			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Carbon disulfide			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Carbon tetrachloride			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Chlorobenzene			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Chloroethane			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Chloroform			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Chloromethane			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	cis-1,2-Dichloroethene			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	cis-1,3-Dichloropropene			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Cyclohexane			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Dibromochloromethane			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Dichlorodifluoromethane			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Ethylbenzene			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Methyl acetate			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	12	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Methyl tert-butyl ether			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Methylcyclohexane			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Methylene chloride			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Styrene			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Tetrachloroethene			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Toluene			ug/kg	< 6.3	8.7	< 6.7	10	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	trans-1,2-Dichloroethene			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	trans-1,3-Dichloropropene			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Trichloroethene			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Trichlorofluoromethane			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Vinyl chloride			ug/kg	< 6.3	< 6.6	< 6.7	< 6.2	< 6.4	< 5.4	< 5.2	< 6.6	< 6.3	< 4.9	< 4.9	< 5.2	< 4.8	< 3.5
VOCs	Xylenes, Total			ug/kg	< 13	< 13	< 13	< 12	< 13	< 11	< 10	< 13	< 13	< 9.7	< 9.8	< 10	< 9.7	< 7.1

Notes:
N - normal sample
FD - field duplicate sample
RUSL - Residential Use Screening Level (NUREG 1757, Appendix H)
IUSL - Industrial Use Screening Level (NUREG 1757, Appendix H)
Bold concentrations indicate detections
Concentrations in shaded cells exceed their RUSL/IUSL
NA - not analyzed
- value is below minimum detectable concentration
- value is reported as a negative number
pCi/g - picocuires per gram
ug/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
SVOCs - semivolatile organic compounds
VOCs - volatile organic compounds
* - sludge sample collected from the Sanitary Lagoon
** - sludge sample collected from the East Lagoon
J - Estimated result is less than the practical quantitation limit and greater than the method detection limit