

1 INTRODUCTION AND OBJECTIVE

The objective of this appendix is to estimate the mass discharge from the identified PFAS transport pathways using a Cape Fear River mass loading model developed and described in the *Cape Fear River Mass Loading Calculation Protocol Version 2* (Geosyntec, 2020a) and to assess contributions by pathway. The following sections describe the transport pathways, the results from the mass loading model, an assessment on the sensitivity and the limitations of the mass loading model, and a sensitivity assessment in pursuant of NCDEQ comments #13 and #16/17 (Geosyntec, 2020a). Supporting tables for the Mass Loading Model are provided in Attachment ATT1.

The one-year period of monthly sampling of the mass loading model pathways per Consent Order (CO) Paragraph 1(b) was completed in December 2021. Quarterly sample collection was initiated in January 2022 and will continue for a period of 4 years (through Q4 2025) (Geosyntec, 2020a).

1.1 Mass Loading Model Transport Pathways

The nine potential pathways representing compartments to the mass loading model were identified as potential contributors of PFAS to river PFAS concentrations (Geosyntec, 2020a). Remedies have been implemented to capture PFAS and prevent PFAS from reaching the Cape Fear River at five of the nine pathways. In addition, these remedies have had a positive effect on reducing PFAS from the remaining pathways without remedies in place (e.g., the Thermal Oxidizer reduces aerial deposition [Transport Pathway 3] which also reduces deposition on Willis Creek [Transport Pathway 2]). The pathways are described below:

- **Transport Pathway 1:** Upstream Cape Fear River and Groundwater – This pathway is comprised of contributions from non-Chemours related PFAS sources on the Cape Fear River and tributaries upstream of the Site, and upstream offsite groundwater with PFAS present from aerial deposition.
- **Transport Pathway 2:** Willis Creek – Groundwater and stormwater discharge and aerial deposition to Willis Creek and then to the Cape Fear River.
- **Transport Pathway 3 (Remedy: Thermal Oxidizer and Carbon Bed Air Emission Treatment):** Direct aerial deposition of PFAS on the Cape Fear River (see Attachment ATT2 for further details).
- **Transport Pathway 4 (Remedy: Stormwater Capture and Treatment in the Monomers IXM Manufacturing Area):** Outfall 002 – Comprised of (i) water drawn from the Cape Fear River and used as non-contact cooling water, (ii) treated non-Chemours process water, (iii) Site stormwater, (iv) steam condensate, and (v) power neutralization discharge, which are then discharged through Outfall 002.
- **Transport Pathway 5 (Remedy: Barrier Wall and Groundwater Extraction Treatment):** Onsite Groundwater – Direct upwelling of onsite groundwater to the Cape

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Fear River from the Black Creek Aquifer. Additional details are provided in Attachment ATT3.

- **Transport Pathway 6 (Remedy: Seep Flow-Through Cells):** Seeps – Onsite groundwater seeps A, B, C and D and the offsite Lock and Dam Seep originating above the Cape Fear River water level on the bluff face from the facility that then discharge into the Cape Fear River.
- **Transport Pathway 7 (Remedy: Outfall 003 Stream Capture and Treatment System):** Outfall 003 Stream (previously referred to as Old Outfall 002) – Groundwater discharge and stormwater runoff to the Outfall 003 Stream that flows into the Cape Fear River.
- **Transport Pathway 8:** Adjacent and Downstream Offsite Groundwater – Offsite groundwater adjacent and downstream of the Site upwelling to the Cape Fear River.
- **Transport Pathway 9:** Georgia Branch Creek – Groundwater, stormwater discharge and aerial deposition to Georgia Branch Creek and then to the Cape Fear River.

For the Q4 2024 mass loading model assessments, data sources used as model inputs for each potential pathway are described in Table A1.

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2 SAMPLING ACTIVITIES AND LABORATORY ANALYSIS

The mass loading model sampling program for this reporting period consisted of collecting concentration and flow data from the various PFAS transport pathways during the reporting period (October 2024).

A total of 36 water samples were collected this quarter, which includes surface water (seep, creeks, Outfall 003 Stream, Outfall 002, and Cape Fear River) and groundwater. The sample collection, field parameters, and flow measurement methods of each pathway are outlined in Table A2. The field forms are provided in Appendix C. Details of the sampling methods and flow measurement methods can be found in *Cape Fear River Mass Loading Calculation Protocol Version 2* (Geosyntec, 2020a).

2.1 Flow Measurements

The flow rates measured for the seep and surface water events are reported in Table A2. Details on the flow calculations for each model transport pathway along with measurement methods at each flow gauging location are provided in Attachment Tables ATT1-1 to ATT1-10.

2.2 Surface Water Sample Collection

A total of 12 primary samples and 1 duplicate sample were collected on October 23 and 24, 2024. The three downstream samples along the Cape Fear River (Bladen Bluffs, Tar Heel, and Kings Bluff) were also sampled on October 24, 2024. Seep A, B, C, and D effluents were not sampled because the seeps were dry during the sampling event.

2.3 Lock and Dam Seep Sampling

The Lock and Dam Seep and Lock and Dam North were sampled this quarter during the mass loading model sampling program (October 23 and 24, 2024), as shown in the photos below (left: Lock and Dam Seep; right: Lock and Dam North):



2.4 Water Levels and Groundwater Sample Collection

One synoptic water level survey of the onsite groundwater monitoring well network was completed on October 2, 2024 (Table A3). From October 7 to 11, 2024, groundwater samples were collected from 21 locations, including 18 of the 20 monitoring wells outlined in CO Paragraph 16 (Table A4). This list of groundwater wells is derived from the Corrective Action Plan (CAP) (Geosyntec, 2019a). The groundwater field parameters are provided in Table A4.

2.5 Laboratory Analyses

Samples were sent to Eurofins Scientific (West Sacramento, CA) and were analyzed for Table 3+ and other PFAS compounds using Method 537 Mod Max (56 compounds which includes PFPrA).

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3 PFAS ANALYTICAL RESULTS

The analytical results from samples during the Q4 2024 surface water and groundwater sampling events are presented in Tables A5 and A6, respectively. During this sampling event, all samples were within the acceptable temperature requirements for preservation during storage and shipping (i.e., between not frozen to 6°C with a target of 4°C) as outlined in the Chemours PFAS Program QAPP (AECOM, 2018). The laboratory reports and Data Verification Module (DVM) reports are provided in Appendix D of the main report. The analytical data have been reviewed and validated. The duplicate samples have also been compared to the primary samples.

3.1 Data Validation

Laboratory analytical data for the samples collected during the Q4 2024 reporting period were reviewed using the Data Verification Module (DVM) within the Locus™ Environmental Information Management (EIM) system, a commercial data management software program. Following the DVM process, a manual review of the data was conducted. The DVM and the manual review results were combined in a DVM narrative report for each set of sample results which is consistent with Stage 2b of the *USEPA Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (USEPA, 2009). The DVM narrative report summarizes which samples were qualified (if any), the specific reasons for the qualification, and any potential bias in reported results. The data usability, in view of the project's data quality objectives (DQOs), was assessed, and the data were entered into the EIM system.

The data were evaluated by the DVM against the following data usability checks:

- Hold time criteria
- Field and laboratory blank contamination
- Completeness of QA/QC samples
- Matrix spike/matrix spike duplicate recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample/laboratory control sample duplicate recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- RPD between field duplicate sample pairs

A manual review of the data was also conducted, which included visual inspection of sample chromatograms for appropriate integration and retention time, verification that detections in field or equipment blanks have been applied to all applicable samples, and review of temperature requirements for sample preservation during storage and shipping. Based on the results of the DVM plus manual review, the following data evaluation qualifiers were applied to the analytical results as required:

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- J - Analyte present, reported value may not be accurate or precise.
- UJ - Analyte not present above the reporting limit, reporting limit may not be accurate or precise.
- B - Analyte present in a blank sample, reported value may have a high bias.

The DVM narrative reports are provided in Appendix D. Overall, the DQOs were met for accuracy and precision. During this sampling event, samples were within the acceptable temperature requirements for preservation during storage and shipping (i.e., between not frozen to 6°C with a target of 4°C) as outlined in the Chemours PFAS Program QAPP (AECOM, 2018). The data collected are believed to be complete, representative, and comparable, with the exception of R-PSDA, Hydrolyzed PSDA, and R-EVE; matrix interference studies have shown that quantitation these compounds is inaccurate due to interferences by the sample matrix (Geosyntec, 2020b). Results for these three analytes are J-qualified as estimated.

3.2 Surface Water PFAS Analytical Results

For the surface and seep water samples, two equipment blanks were collected on October 24, 2024. PFAS were not detected above associated reporting limits in these equipment blanks. One field duplicate was collected at WC-1 location on October 24, 2024. PFAS results for the primary (CAP4Q24-WC-1-24-102424) and duplicate sample (CAP4Q24-WC-1-24-102424-D) had relative percent differences of less than 30% for the reported compounds, except for NVHOS, which is J-qualified due to high relative percent difference.

Analytical results for the seep, surface, and river water samples are summarized in Table A5 (Table 3+) and Attachment Table ATT1-11 (Mod 537). Figure A1 shows the Total Table 3+ (17 compounds) concentrations reported for samples collected in Q4 2024 that corresponds to the mass loading model transport pathways. Figure A2 and A3 show the Total Table 3+ (17 compounds) concentrations and HFPO-DA concentrations at upstream and downstream locations along the Cape Fear River.

Among the collected river samples, Total Table 3+ (17 compounds) concentrations ranged from 5.2 ng/L (upstream sample at CFR MILE 76 on October 23, 2024) to 69 ng/L (downstream sample at CFR-KINGS on October 24, 2024).

For the creeks, the Total Table 3+ (17 compounds) concentrations were 1,900 ng/L and 1,200 ng/L at Willis Creek and Georgia Branch, respectively. These concentrations are within the range of concentrations observed during previous events (Geosyntec: 2020b,c,d; 2021a,b,c,d; 2022a,b,c,d; 2023a,b,c,d; 2024a,b,c,d).

Among the Seeps and Outfall 003 Stream, Outfall 002 effluent had the lowest Total Table 3+ (17 compounds) concentrations (280 ng/L), while Lock and Dam Seep had the highest Total Table 3+ (17 compounds) concentration (68,000 ng/L) during the Mass Loading model sampling event. The analytical results for the Seeps influent and effluent collected for the FTC performance monitoring

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this quarter are not included in this report but are provided in *CFR Long-Term Remedy Performance Monitoring Report #8* (Geosyntec 2025).

Figure A3 shows the HFPO-DA concentrations in the four near-site/downstream river sampling locations. HFPO-DA concentrations were either below 10 ng/L or non-detect (i.e., below the associated reporting limits) (CFR-MILE 76 on October 23, 2024, and CFR-BLADEN, CFR-KINGS, and CFR-TARHEEL on October 24, 2024).

3.3 Groundwater PFAS Analytical Results

For the groundwater samples, the following observations were noted for the QA/QC samples:

- Three equipment blank samples were collected during the sampling event. No PFAS were detected above the associated reporting limits in any of the equipment blank samples.
- Two field duplicates were collected in Q4 2024 at LTW-05 on October 9, 2024 and at OW-33 on October 8, 2024. Relative percent differences between the parent (CAP4Q24-LTW-05-100924 and CAP4Q24-OW-33-100824) and duplicate samples (CAP4Q24-LTW-05-100924-D and CAP4Q24-OW-33-100824-D) were less than 30% for the reported compounds, except for PFMOAA, PFO2HxA, PFO3OA, PEPA, R-PSDA, NVHOS, Hydro-EVE Acid, PFPrA, PFHpA, and PFPeA at LTW-05, which are J-qualified for high relative percent difference.

Individual PFAS and Total PFAS concentrations for the groundwater samples collected in Q4 2024 are summarized in Tables A6 (Table 3+), Attachment Table ATT1-12 (Mod 537), and Figure A4. Total Table 3+ (17 compounds) concentrations ranged from 42 ng/L (PW-09) to 150,000 ng/L (LTW-03). In general, the next highest concentrations were observed in the LTW, PZ, and PIW wells near the mouths of the seeps adjacent to the river (Figure A4).

On an aquifer basis, lower individual and Total Table 3+ (17 compounds) concentrations are observed in wells screened in the Surficial Aquifer. The results from the Q4 2024 monitoring are consistent with trends observed at these wells in previous monitoring events (Geosyntec: 2020b,c,d; 2021a,b,c,d; 2022a,b,c,d; 2023a,b,c,d; 2024a,b,c,d).

3.4 Groundwater Elevations

Groundwater elevations were calculated for onsite and offsite wells screened in the Perched Zone, Surficial Aquifer, and Black Creek Aquifer from the synoptic water level measurement survey performed in October 2024 (Table A4). Groundwater elevations from these synoptic water levels are presented on the Perched Zone, Surficial Aquifer, and Black Creek Aquifer maps (Figures A5-1, A5-2, and A5-3, respectively).

4 MASS LOADING MODEL ASSESSMENT

The Total PFAS mass discharge per pathway to the Cape Fear River is summarized in Table A7. These mass discharge values from the mass loading model assessment are considered as a ‘snapshot’ in time. Analyte-specific mass discharges estimated from the Mass Loading Model are provided in Attachment ATT1.

4.1 Model-Estimated PFAS Mass Discharge

The model-estimated Total Table 3+ (17 compounds) mass discharge from the potential transport pathways during Q4 2024 is 0.82 mg/s (Attachment ATT1 Table ATT1-13) and represents the mass discharge estimated downgradient of the remedies (i.e., after the water passes through the remedies, “after remedies”). This mass discharge value continues to be less than the historical “after remedies” mass discharge estimates from mass loading model events prior to the operation of the groundwater extraction system (historical “after remedies” prior to operation of groundwater extraction system ranged from 2.3 to 24 mg/s) (Geosyntec: 2019b; 2020b,c,d; 2021a; 2021b; 2021c; 2021d; 2021e; 2022b; 2022c; 2022d; 2023a).

4.2 Comparison of Before Remedies and Current PFAS Mass Discharge

This section compares Q4 2024 mass discharge values downgradient of the remedies (i.e., after the water passes through the remedies, “after remedies”) to mass discharge values from past quarters upgradient of the remedies (i.e., before the water passes through the remedies, “before remedies”, or where no remedies were implemented) (Geosyntec: 2019b; 2020b; 2020c; 2020d; 2021a; 2021b; 2021c; 2021d; 2021e; 2022b; 2022c; 2022d; 2023a). The in-text table and figure below summarize the historical before remedies Total Table 3+ (17 compounds) mass discharge from Q3 2020 to Q4 2022 and the after remedies mass discharge for this quarter. The pathways with remedies (Seeps, Outfall 003 Stream, Outfall 002, and onsite groundwater) have substantially lower mass discharges, i.e., lower contributions to total mass discharge to the river, than the historical before remedies mass discharges. For the remaining transport pathways, mass discharges have either reduced since the implementation of the remedies, e.g., Willis Creek (as discussed in *CFR Long-Term Remedy Performance Monitoring Report #8*; Geosyntec, 2025), or are within the range of previous values.

The in-text table and figure indicate three major findings:

1. The Q4 2024 mass discharges to the Cape Fear River are either equivalent to historical levels or significantly lower. Note that the mass discharge of 0.32 mg/s for Willis Creek and 0.071 mg/s for Georgia Branch Creek were less than or at the lower end of the range of “historical before remedies” mass discharge.
2. The pathways with remedies (Seeps, Outfall 003 Stream, and Onsite Groundwater) all show a significant mass discharge decrease in Q4 2024 compared to historical, pre-remediation ranges.

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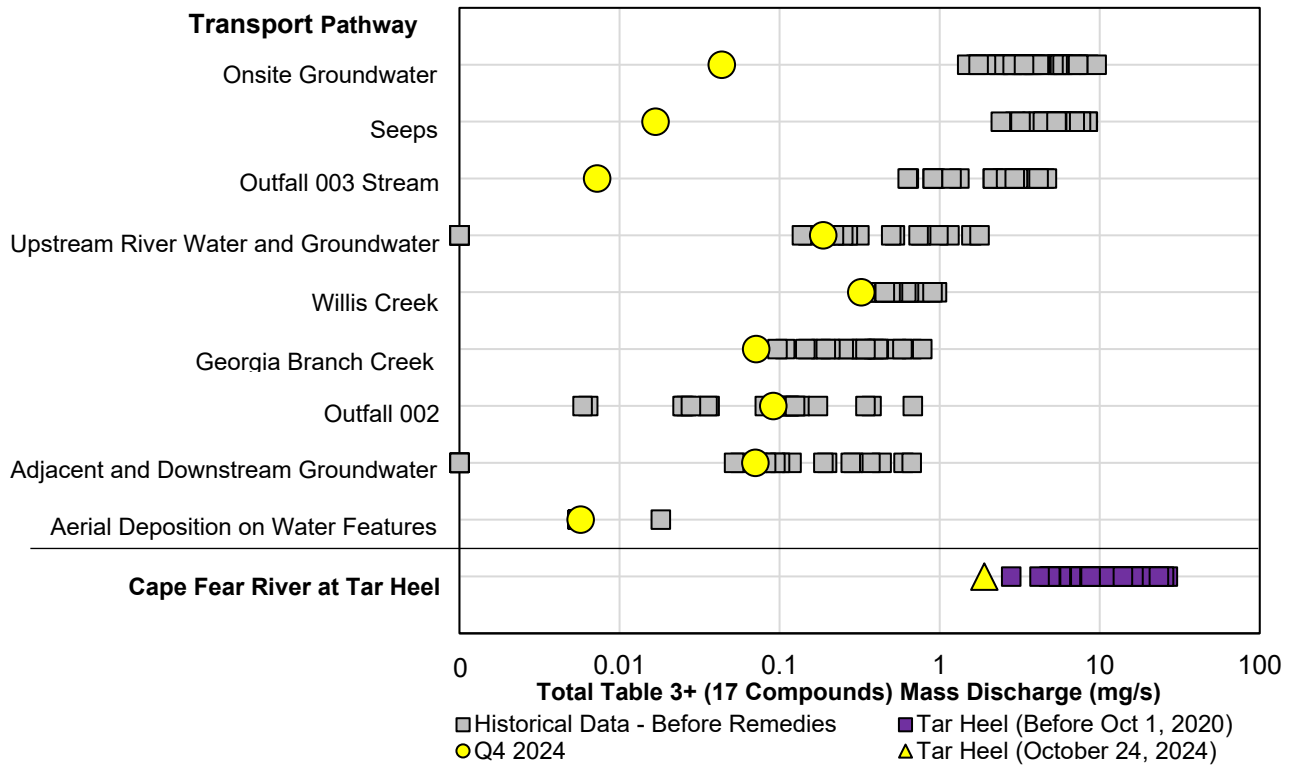
3. The total mass discharge to the Cape Fear River from the Site is much lower in Q4 2024 compared to historical before remedies mass discharges.

Model Transport Pathway	Historical Before Remedies Total Table 3+ (17 Compounds) Mass Discharge (mg/s) ¹			Q4 2024 Total Table 3+ (17 Compounds) Mass Discharge (mg/s)
	Min	Median	Max	
Aerial Deposition	0.01	0.01	0.02	0.006
Upstream River and Groundwater	0	0.27	4.5	0.19
Willis Creek	0.31	0.57	0.96	0.32
Seeps	3.0	5.4	8.4	0.02
Onsite Groundwater	1.5	3.6	9.6	0.044
Outfall 002	0.006	0.10	0.68	0.091
Georgia Branch Creek	0.10	0.32	0.78	0.071
Outfall 003 Stream	0.63	2.5	4.7	0.007
Offsite Groundwater	0	0.10	1.7	0.071
Total²	6.7	14	24	0.82

1 – Historical Before remedies mass discharge values taken from mass loading model assessments conducted between April 2020 to November 2022, which pre-date the installation of the groundwater extraction and barrier wall remedy which significantly altered the hydrologic conditions at site.

2 – Total values for historical before remedies mass discharge come from individual mass loading model assessments and therefore do not equal the sum of the values above.

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4.3 Variability in Input Parameters

The mass loading model assessments provide PFAS mass discharge estimates for a ‘snapshot’ in time. While controlling for temporal variability, the model-based mass discharge estimates contain some level of uncertainty due to the inherent variability, and measurement error in the input parameters (e.g., flow and concentrations).

5 SENSITIVITY ASSESSMENT

In pursuant of the comments provided by the NCDEQ in the *Cape Fear River Mass Loading Calculation Protocol Version 2* (Geosyntec, 2020a), the following evaluations were performed as part of the annual sensitivity analysis:

- Mass discharge from the Floodplain Deposits (comment #13); and
- Mass loading from adjacent and downstream groundwater using the land use scaling method instead of using river length method (comment #16/17).

5.1 *Mass Discharge from the Floodplain Deposits*

For the onsite groundwater (transport pathway 5), the mass discharge calculations only accounted for mass discharge from the Black Creek Aquifer and did not include mass discharge from the Floodplain Deposits. The Floodplain Deposits are not always in hydraulic connection with the Cape Fear River as this layer is above the water line and have an order of magnitude lower hydraulic conductivity.

Using Q4 2024 data, the mass discharge from the Floodplain Deposits was estimated using the same method that was used to estimate the mass discharge from the Black Creek Aquifer with the following adjustments:

- The hydraulic conductivity of the Floodplain Deposits was assumed to be 3.2×10^{-4} centimeters per second (cm/s).
- The cross-sectional area from Segment #8 was grouped with Segment #7 because there are no wells in Segment #8 that are screened above the Black Creek Aquifer.
- No mass discharge was calculated from Segment #9 because a cross-sectional area of Floodplain Deposits was not interpreted within Segment #9 and there are no wells in this segment that are screened above the Black Creek Aquifer.

The mass discharge from the Floodplain Deposits was estimated to be 0.0026 mg/s (see Table ATT3-3 of Attachment ATT3). This is only approximately 5.9% of the mass discharge from the Black Creek Aquifer (0.044 mg/s) and only 0.32% of the total mass discharge from all model transport pathways. This suggests that the mass discharge from the Floodplain Deposits continues to not have a meaningful impact to the results of the mass loading model.

5.2 *Land Area Versus River Length*

For the mass adjacent and downstream groundwater (transport pathway 8), the river length was used as the method for scaling downstream offsite loadings since the river is in direct contact with the land it is passing through. A potential alternative scaling factor for adjacent and downstream offsite groundwater loadings is using land area instead of river length. The land area upstream,

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adjacent, and downstream of the Site is estimated using the extent of detections in offsite residential wells during the reporting period.

To compare the two scaling factor approaches (river length versus land area), the scaling factor was calculated using the land area method based on offsite residential wells sampled during Q4 2024 (October through December 2024). The estimated scaling factor using the land area method is 0.026, which is less than the scaling factor using the river length method of 0.38. This change would decrease the mass discharge from transport pathway 8 from 0.071 mg/s to 0.0049 mg/s. The scaling factors using both approaches (river length versus land area) are low and would have minimal change on the contribution from this transport pathway.

There continues to be uncertainties on how to incorporate land area. The current method to calculate the scaling factor considers equal weighting from all upstream, adjacent, and downstream land areas; however, as offsite residential wells further away from the Site have less impact than wells closer to the Site.

6 SUMMARY

The objective of the mass loading model assessments is to provide PFAS mass discharge estimates for a ‘snapshot’ in time. In Q4 2024, 36 water samples collected from the PFAS transport pathways (seeps, creeks, Outfall 003 Stream, Outfall 002, groundwater) were used to estimate the mass discharge to the Cape Fear River. The model-estimated Total Table 3+ (17 compounds) mass discharge from the potential transport pathways during Q4 2024 is 0.82 mg/s.

The mass discharge continues to be less than the after remedies mass discharge estimates from mass loading model events prior to the operation of the groundwater extraction system. The implementation of remedies (i.e., Outfall 003 treatment system, Seeps FTCs, and the groundwater extraction and barrier wall remedy) for the three transport pathways (Outfall 003, Seeps and Onsite Groundwater) that historically contributed the bulk of PFAS mass load correspond to a significant mass discharge decrease in Q4 2024 compared to historical, pre-remediation ranges. For the remaining transport pathways, mass discharges have either reduced since the implementation of the remedies, e.g., Willis Creek (as discussed in *CFR Long-Term Remedy Performance Monitoring Report #8*; Geosyntec, 2025), or are within the range of previous values. Quarterly sample collection and evaluation will continue through Q4 2025. The data will continue to be incorporated into the mass loading model to estimate mass discharge to the Cape Fear River.

REFERENCES

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- Geosyntec, 2019a. Corrective Action Plan. Chemours Fayetteville Works. December 2019.
- Geosyntec. 2019b. On and Offsite Assessment. Chemours Fayetteville Works. September 30, 2019.
- Geosyntec, 2020a. Cape Fear River Mass Loading Calculation Protocol Version 2, Chemours Fayetteville Works. November 18, 2020.
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- Geosyntec, 2021b. Cape Fear River PFAS Mass Loading Assessment – First Quarter 2021 Report, Chemours Fayetteville Works. June 30, 2021.
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- Geosyntec 2022a. Cape Fear River PFAS Mass Loading Assessment – Fourth Quarter 2021 Report, Chemours Fayetteville Works. March 31, 2022.
- Geosyntec 2022b. Cape Fear River PFAS Mass Loading Assessment – First Quarter 2022 Report, Chemours Fayetteville Works. June 30, 2022.
- Geosyntec 2022c. Cape Fear River PFAS Mass Loading Assessment – Second Quarter 2022 Report, Chemours Fayetteville Works. September 30, 2022.
- Geosyntec 2022d. Cape Fear River PFAS Mass Loading Assessment – Third Quarter 2022 Report, Chemours Fayetteville Works. December 28, 2022.

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Geosyntec 2023a. Cape Fear River PFAS Mass Loading Assessment – Fourth Quarter 2022 Report, Chemours Fayetteville Works. March 31, 2023.

Geosyntec 2023b. Cape Fear River PFAS Mass Loading Assessment – First Quarter 2023 Report, Chemours Fayetteville Works. June 29, 2023.

Geosyntec 2023c. Cape Fear River PFAS Mass Loading Assessment – Second Quarter 2023 Report, Chemours Fayetteville Works. September 29, 2023.

Geosyntec 2023d. Cape Fear River PFAS Mass Loading Assessment – Third Quarter 2023 Report, Chemours Fayetteville Works. December 22, 2023.

Geosyntec. 2024a. Cape Fear River PFAS Mass Loading Assessment – Fourth Quarter 2023 Report, Chemours Fayetteville Works. March 28, 2024.

Geosyntec. 2024b. Cape Fear River PFAS Mass Loading Assessment – First Quarter 2024 Report, Chemours Fayetteville Works. June 27, 2024.

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Geosyntec. 2025. CFR Long-Term Remedy Performance Monitoring Report #8. Chemours Fayetteville Works. March 26, 2025.

USEPA 2009. USEPA Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use. January 13, 2009. OSWER No. 9200.1-85. EPA 540-R-08-005

List of Attachments:

ATT1: Supplemental Tables to the Mass Loading Model

ATT2: Supporting Calculations – Direct Aerial Deposition on Cape Fear River

ATT3: Supporting Calculations – Onsite Groundwater Pathway

TABLE A1
PFAS MASS LOADING MODEL POTENTIAL PATHWAYS
Chemours Fayetteville Works, North Carolina

Transport Pathway Number	Potential PFAS Transport Pathway	Analytical Data Source for Mass Loading Model ¹	Flow Data Source for Mass Loading Model ¹
1	Upstream River and Groundwater	Measured from Cape Fear River Mile 76 samples collected in October 2024 as reported in Table A5.	Measured flow rates from USGS gauging station at W.O. Huske Dam during October 2024 volumetrically adjusted for flow pathways between River Mile 76 and W.O. Huske Dam. ²
2	Willis Creek	Measured from Willis Creek samples collected in October 2024 as reported in Table A5.	Measured flow rates through Marsh-McBirney method during October 2024 as reported in Attachment ATT1.
3	Aerial Deposition on River	Estimated from air deposition modeling ³ .	Estimated from air deposition modeling ³ .
4	Outfall 002	Measured from Outfall 002 samples collected in October 2024 as reported in Table A5.	Measured daily Outfall 002 flow rates recorded in Facility discharge monitoring reports, summarized in Attachment ATT1.
5	Onsite Groundwater	Measured from monitoring well samples collected in October 2024 as reported in Table A6.	Estimated as the sum of the mass flux from the Black Creek Aquifer calculated from a transect along the Cape Fear River. Further details and supporting calculations provided in Attachment ATT2.
6	Seeps	Measured from Seeps A, B, C, D, and Lock and Dam North samples collected in October 2024 as reported in Table A5.	Measured flow rates through bucket and time for Lock and Dam Seep and Lock and Dam North during October 2024 as reported in Attachment ATT1. No flow was observed at Seeps A, B, C, and D Flow-Through Cells.
7	Outfall 003 Stream	Measured from Outfall 003 Stream samples collected in October 2024 as reported in Table A5.	Measured flow rates through Marsh-McBirney method during October 2024 as reported in Attachment ATT1.
8	Adjacent and Downstream Groundwater	Estimated using a scaling factor applied to upstream mass discharge. Refer to <i>Cape Fear River PFAS Mass Loading Calculation Protocol Version 2</i> (Geosyntec, 2020a) for details.	Estimated using a scaling factor applied to upstream mass discharge. Refer to <i>Cape Fear River PFAS Mass Loading Calculation Protocol Version 2</i> (Geosyntec, 2020a) for details.
9	Georgia Branch Creek	Measured from Georgia Branch Creek samples collected in October 2024 as reported in Table A5.	Measured flow rates through Marsh-McBirney method during October 2024 as reported in Attachment ATT1.

Notes:

- 1 - Flow and concentration data are multiplied together to estimate the PFAS mass discharge in the Cape Fear River originating from each pathway.
- 2 - Cape Fear River flow rates measured at USGS gauging station #02105500 located at William O Huske Lock & Dam accessed from <https://waterdata.usgs.gov>.
- 3 - ERM, 2018. Modeling Report: HFPO-DA Atmospheric Deposition and Screening Groundwater Effects. 27 April 2018.

**TABLE A2
SURFACE WATER SAMPLE SUMMARY, FIELD PARAMETERS, AND FLOW MEASUREMENTS - Q4 2024
Chemours Fayetteville Works, North Carolina**

Pathway / Location	Location ID	Location Description	Sample ID	QA/QC	Sample Collection and Field Parameters									Flow Measurement Method ¹	
					Sample Date and Time	Sample Collection Method	Hours Composited ²	pH (S.U.)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Specific Conductivity (µS/cm)	Temperature (°C)	Flow Measurement Method	Instantaneous Flow Rate (ft ³ /s) ³
Upstream River Water and Groundwater	CFR-RM-76	Cape Fear River Mile 76	CAP4Q24-CFR-RM-76-102324	--	10/23/2024 9:05	Grab	0	7.41	7.3	50.3	9.63	894.95	16.02	USGS Data ⁴	1,271
Willis Creek	WC-1	Mouth of Willis Creek	CAP4Q24WC-1-24-102424	--	10/24/2024 7:00	Composite	24	5.6	6.6	173	18.96	0.11	16.19	Marsh-McBirney Flow	6.0
Willis Creek	WC-2	Mouth of Willis Creek	CAP4Q24WC-2-24-102424	--	10/24/2024 7:00	Composite	24	7.38	0.23	22.6	25.22	0.35	14.61	Marsh-McBirney Flow	6.0
Willis Creek	WC-3	Mouth of Willis Creek	CAP4Q24WC-3-24-102424	--	10/24/2024 7:00	Composite	24	7.74	0.37	30.8	29	0.26	17.45	Marsh-McBirney Flow	6.0
Intake River Water at Facility	INTAKE AT FACILITY	Water Drawn Through the Intake Sampled at the Power Area at the Site	CAP4Q24RIVER WATER INTAKE2-24-102424	--	10/24/2024 7:06	Composite	24	7.56	7.19	776.8	20.4	0.11	20.63	Facility DMRs	8.3
Outfall 002	OUTFALL-002	Upstream of Outfall 002 in open channel	CAP4Q24OUTFALL 002-24-102424	--	10/24/2024 10:15	Composite	24	7.57	0.81	135.6	35.6	171.87	26.22	Facility DMRs	24.8
Stormwater Treatment System ³	STS DISCHARGE	Monomers/LXM Stormwater Treatment System Effluent	--	--	--	--	--	--	--	--	--	--	--	--	--
Seep A	SEEP-A	Effluent Basin of Seep A FTC	--	--	--	--	--	--	--	--	--	--	--	--	--
Seep B	SEEP-B	Effluent Basin of Seep B FTC	--	--	--	--	--	--	--	--	--	--	--	--	--
Seep C	SEEP-C	Effluent Basin of Seep C FTC	--	--	--	--	--	--	--	--	--	--	--	--	--
Seep D	SEEP-D	Effluent Basin of Seep D FTC	--	--	--	--	--	--	--	--	--	--	--	--	--
Lock and Dam Seep	LOCK-DAM-SEEP	Southside of the boat ramp at the Lock and Dam Seep	CAP4Q24-Lock-Dam Seep-102324	--	10/23/2024 12:20	Grab	0	8.68	4.97	61	15.2	153.02	18.76	Bottle and Stopwatch	0.0084
Lock and Dam North	LOCK-DAM-NORTH	Northside of the boat ramp at the Lock and Dam Seep	CAP4Q24-Lock and Dam North-102324	--	10/23/2024 13:20	Grab	0	6.46	6.05	45.4	120	143.03	25.18	Bottle and Stopwatch	0.0018
Outfall 003 Stream	OLDOF-1	Mouth of Outfall 003 stream	CAP4Q24OLDOF-1-24-102424	--	10/24/2024 11:34	Composite	24	7.28	6.94	121.9	11.68	0.25	23.75	Marsh-McBirney Flow	0.0826
Georgia Branch Creek	GBC-1	Mouth of Georgia Branch Creek	CAP1024-GBC-1-102324	--	10/23/2024 15:20	Grab	0	7.75	7.56	115.6	10.65	0.05	29.45	Marsh-McBirney Flow	2.1
Tar Heel Ferry Road Bridge	CFR-TARHEEL	Cape Fear River at Tar Heel Ferry Road Bridge	CAP4Q24-CFR-TARHEEL-102424	--	10/24/2024 9:50	Grab	0	8.89	8.27	-21.7	9.66	231.89	20.26	USGS Data ⁵	1,290
			CAP4Q24CFR-TARHEEL-24-102424	--	10/24/2024 23:24	Composite	24	8.52	8.07	22.6	16.15	227.45	21.23	USGS Data ⁵	1,288
Bladen Bluffs	CFR-BLADEN	Cape Fear River at Bladen Bluffs	CAP4Q24-CFR-BLADEN-102424	--	10/24/2024 9:15	Grab	0	8.01	9	-39.7	9.01	223.9	18.65	USGS Data ⁶	1,270
Kings Bluffs	CFR-KINGS	Cape Fear River at Kings Bluff Raw Water	CAP4Q24-CFR-KINGS-102424	--	10/24/2024 12:15	Grab	0	8.57	5.79	102.91	10.72	1414.4	22.75	USGS Data ⁷	1,410

Notes:

- 1 - Flow measurement methods are described in Table A1. Supplemented flow measurement data are included in Attachment ATT1.
- 2 - Samples with a compositing duration of zero (0) hours are grab samples.
- 3 - The Stormwater Treatment System (SWTS) samples are collected over the typical daily operation period. During the October 2024 sampling event there was no stormwater flow to the stormwater treatment system.
- 4 - The volumetric flow rate for upstream river water and groundwater was estimated by subtracting inflows from Willis Creek, upwelling groundwater, seeps to the river, and Outfall 002 and by adding the river water intake from Chemours to the flow rate measurement from the W.O. Huske Dam.
- 5 - Flow rate measured at USGS gauging station #02105500 located at William O Huske Lock & Dam used to estimate flow rate at Tar Heel Ferry Road Bridge during grab sample collection.
- 6 - Flow rate measured at USGS gauging station #02105500 located at William O Huske Lock & Dam used to estimate flow rate at Bladen Bluff during sample collection.
- 7 - Flow rate measured at USGS gauging station #02105769 located at Lock #1 near Kelly used to estimate flow rate at Kings Bluff during sample collection.

-- - not measured/not sampled
 DMRs - Discharge Monitoring Reports
 FTC - Flow-through cell
 USGS - United States Geological Survey
 °C - degrees Celsius
 mg/L - milligrams per liter
 µS/cm - microsiemens per centimeter
 mV- millivolts
 NTU - Nephelometric Turbidity Units
 ORP - oxidation reduction potential
 S.U. - Standard Units

TABLE A3
GROUNDWATER ELEVATIONS - Q4 2024
Chemours Fayetteville Works, North Carolina

Area ¹	Water Bearing Unit ²	Well ID	Gauging Date	Northing (ft, SPCS NAD83) ³	Easting (ft, SPCS NAD83) ³	Screened Interval (ft)	TOC Elevation (ft, NAVD 88) ⁴	Depth to Water (ft from TOC)	Water Level (ft, NAVD88) ⁴
Onsite	Black Creek Aquifer	BCA-01	10/02/24	399779.96	2050662.48	91-101	146.25	66.40	79.85
Onsite	Black Creek Aquifer	BCA-02	10/02/24	396242.02	2051062.07	92-102	148.37	78.05	70.32
Onsite	Black Creek Aquifer	BCA-03R	10/02/24	398582.23	2049522.22	88-98	150.82	55.70	95.12
Onsite	Black Creek Aquifer	BCA-04	10/02/24	395877.67	2047823.03	94-104	150.31	31.73	118.58
Offsite	Black Creek Aquifer	BLADEN-1DR	10/02/24	387522.25	2050247.40	NM	76.54	19.46	57.08
Offsite	Surficial Aquifer	BLADEN-1S	10/02/24	387518.97	2050233.35	5-10	76.74	10.15	66.59
Offsite	Black Creek Aquifer	BLADEN-2D	10/02/24	368827.09	2042878.34	70-75	138.27	18.43	119.84
Offsite	Surficial Aquifer	BLADEN-2S	10/02/24	368821.46	2042882.92	10-20	138.04	5.89	132.15
Offsite	Black Creek Aquifer	BLADEN-3D	10/02/24	396856.98	2059006.56	33.75-43.75	75.52	10.38	65.14
Offsite	Surficial Aquifer	BLADEN-3S	10/02/24	396862.31	2059012.93	5-15	74.27	7.69	66.58
Offsite	Black Creek Aquifer	BLADEN-4D	10/02/24	363255.12	2087636.87	46.75-51.75	59.66	0.65	59.01
Offsite	Surficial Aquifer	BLADEN-4S	10/02/24	363263.19	2087637.46	4.75-14.75	59.68	4.61	55.07
Offsite	Black Creek Aquifer	CUMBERLAND-1D	10/02/24	431459.95	2011071.39	40-50	174.60	2.12	172.48
Offsite	Surficial Aquifer	CUMBERLAND-1S	10/02/24	431459.95	2011071.39	15-25	174.73	2.80	171.93
Offsite	Black Creek Aquifer	CUMBERLAND-2D	10/02/24	449987.54	2074019.14	47-57	129.23	2.67	126.56
Offsite	Surficial Aquifer	CUMBERLAND-2S	10/02/24	449979.10	2074020.86	7-17	129.06	2.25	126.81
Offsite	Black Creek Aquifer	CUMBERLAND-3D	10/02/24	423248.12	2060409.16	22-27	78.79	5.93	72.86
Offsite	Surficial Aquifer	CUMBERLAND-3S	10/02/24	423254.64	2060413.30	9-14	79.06	6.33	72.73
Offsite	Black Creek Aquifer	CUMBERLAND-4D	10/02/24	413095.77	2078249.95	57-67	119.22	12.53	106.69
Offsite	Surficial Aquifer	CUMBERLAND-4S	10/02/24	413086.63	2078255.53	10-20	119.36	5.93	113.43
Offsite	Black Creek Aquifer	CUMBERLAND-5DR	10/02/24	405619.17	2138238.59	NM	106.67	7.43	99.32
Offsite	Surficial Aquifer	CUMBERLAND-5S	10/02/24	405623.27	2138233.37	14-24	106.65	3.15	103.50
Onsite	Black Creek Aquifer	EW-1	NM	399934.65	2051297.51	40-60	91.33	NM	NM
Onsite	Black Creek Aquifer	EW-2	NM	396164.48	2052232.61	40-65	77.25	NM	NM
Onsite	Black Creek Aquifer	EW-3	NM	395059.78	2052214.66	37-67	76.48	NM	NM
Onsite	Black Creek Aquifer	EW-4	NM	398581.51	2051805.58	53-73	80.64	NM	NM
Onsite	Black Creek Aquifer	EW-5	NM	397200.16	2052052.65	37-67	78.50	NM	NM
Onsite	Perched Zone	FTA-01	10/02/24	397906.09	2049370.01	12.0-22.0	149.60	15.86	133.74
Onsite	Perched Zone	FTA-02	10/02/24	397784.99	2049203.29	11.5-22.0	149.30	17.22	132.08
Onsite	Perched Zone	FTA-03	10/02/24	397766.23	2049310.46	12.0-22.0	150.10	17.13	132.97
Onsite	Surficial Aquifer	INSITU-01	10/02/24	401657.39	2046078.99	7.0-17.0	89.12	5.91	83.21
Onsite	Surficial Aquifer	INSITU-02	NM	401863.46	2049136.62	7.0-17.0	113.12	NM	NM
Onsite	Floodplain Deposits	LTW-01	10/02/24	399565.01	2052150.62	11.0-26.0	52.71	13.43	39.28
Onsite	Black Creek Aquifer	LTW-02	10/02/24	398847.57	2052355.48	28.0-38.0	51.39	9.98	41.41
Onsite	Floodplain Deposits	LTW-03	10/02/24	398114.45	2052558.35	15.0-30.0	51.75	11.92	39.83
Onsite	Floodplain Deposits	LTW-04	10/02/24	397279.61	2052584.95	12.0-27.0	50.66	10.02	40.64
Onsite	Black Creek Aquifer	LTW-05	10/02/24	396430.31	2052740.40	29.0-44.0	50.94	10.70	40.24
Onsite	Perched Zone	MW-11	NM	396544.40	2049051.06	11.5-21.5	148.53	NM	NM
Onsite	Perched Zone	MW-12S	10/02/24	397262.90	2049269.37	17.5-22.5	151.08	19.45	131.63
Onsite	Surficial Aquifer	MW-13D	10/02/24	397119.02	2049821.12	57-67	148.65	48.34	100.31
Onsite	Surficial Aquifer	MW-14D	10/02/24	396974.49	2049074.56	62-72	149.73	44.19	105.54
Onsite	Surficial Aquifer	MW-15DRR	10/02/24	398580.71	2049511.75	52.5-62.5	150.92	52.92	98.00
Onsite	Surficial Aquifer	MW-16D	10/02/24	398493.70	2048402.84	72-82	148.41	40.10	108.31
Onsite	Surficial Aquifer	MW-17D	10/02/24	398401.74	2047366.50	57-67	146.12	33.62	112.50
Onsite	Surficial Aquifer	MW-18D	10/02/24	400947.30	2046574.35	50-60	108.10	23.10	85.00
Onsite	Surficial Aquifer	MW-19D	10/02/24	401151.43	2048272.93	46-56	139.36	55.08	84.28
Onsite	Perched Zone	MW-1S	10/02/24	397080.69	2049117.99	21.0-24.0	148.88	18.42	130.46
Onsite	Surficial Aquifer	MW-20D	10/02/24	400791.01	2048733.71	65-75	137.20	52.25	84.95
Onsite	Surficial Aquifer	MW-21D	10/02/24	399501.88	2047074.92	72-82	151.42	49.39	102.03
Onsite	Surficial Aquifer	MW-22D	10/02/24	398518.40	2048362.48	52-72	149.09	39.94	109.15
Onsite	Perched Zone	MW-23	10/02/24	396237.61	2051063.25	9.5-14.5	148.34	14.08	134.26
Onsite	Perched Zone	MW-24	10/02/24	397303.94	2048767.69	18.8-23.8	150.31	21.01	129.30
Onsite	Perched Zone	MW-25	10/02/24	396753.37	2050989.82	12-17	147.59	13.55	134.04
Onsite	Perched Zone	MW-26	10/02/24	396265.18	2051484.67	5-10	147.70	11.54	136.16
Onsite	Perched Zone	MW-27	10/02/24	396010.33	2051472.00	10-15	146.83	14.32	132.51
Onsite	Perched Zone	MW-28	10/02/24	395719.79	2051165.93	9-14	144.70	13.91	130.79
Onsite	Perched Zone	MW-30	10/02/24	397340.79	2050776.09	10-15	147.67	12.25	135.42
Onsite	Perched Zone	MW-31	NM	396390.70	2049622.88	17-22	147.70	NM	NM
Onsite	Perched Zone	MW-32	NM	396359.58	2049651.79	13-18.5	147.11	NM	NM
Onsite	Perched Zone	MW-33	NM	396337.51	2049678.56	12-17	146.82	NM	NM
Onsite	Perched Zone	MW-34	NM	396352.90	2049619.09	17-22	147.97	NM	NM
Onsite	Perched Zone	MW-35	NM	396332.94	2049631.16	14-19	147.54	NM	NM
Onsite	Perched Zone	MW-36	NM	396320.09	2049651.17	12-17	147.89	NM	NM
Onsite	Perched Zone	MW-7S	10/02/24	397444.52	2049809.73	NM	147.47	9.51	137.96
Onsite	Perched Zone	MW-8S	NM	397096.48	2049867.77	NM	146.48	NM	NM
Onsite	Perched Zone	MW-9S	10/02/24	396760.16	2049734.30	17.5-22.5	154.39	20.61	133.78
Onsite	Perched Zone	NAF-01	10/02/24	398348.58	2050339.68	5.0-15.0	148.65	7.67	140.98
Onsite	Perched Zone	NAF-02	10/02/24	398660.16	2050634.55	5.0-15.0	149.28	8.61	140.67
Onsite	Perched Zone	NAF-03	10/02/24	398578.63	2050743.04	5.0-15.0	149.41	8.94	140.47
Onsite	Perched Zone	NAF-04	10/02/24	398445.89	2050713.13	5.0-15.0	146.77	5.93	140.84
Onsite	Perched Zone	NAF-06	10/02/24	398808.81	2050913.93	2.75-12.75	145.43	11.44	133.99
Onsite	Perched Zone	NAF-07	10/02/24	398898.69	2050618.12	5.5-15.5	149.03	8.60	140.43
Onsite	Perched Zone	NAF-08A	10/02/24	398098.22	2050886.93	5.0-15.0	147.74	7.27	140.47
Onsite	Surficial Aquifer	NAF-08B	10/02/24	398095.97	2050880.18	43.5-53.5	147.83	56.96	90.87
Onsite	Perched Zone	NAF-09	10/02/24	397708.78	2050807.44	7.0-17.0	148.62	10.97	137.65
Onsite	Perched Zone	NAF-10	10/02/24	397611.81	2050425.20	8.25-18.25	149.25	10.40	138.85
Onsite	Perched Zone	NAF-11A	10/02/24	398907.08	2050999.77	2.5-7.5	139.74	5.07	134.67
Onsite	Surficial Aquifer	NAF-11B	NM	398911.13	2050995.88	33.5-43.5	140.74	NM	NM
Onsite	Perched Zone	NAF-12	10/02/24	398270.56	2050777.49	18-23	145.79	5.26	140.53
Onsite	Black Creek Aquifer	OW-1	10/02/24	399930.53	2051287.87	40-50	95.01	37.02	57.99
Onsite	Black Creek Aquifer	OW-10	10/02/24	399948.17	2051291.21	40-50	94.39	37.12	57.27
Onsite	Black Creek Aquifer	OW-11	10/02/24	401683.39	2049913.61	74-84	94.92	48.16	46.76
Onsite	Black Creek Aquifer	OW-12	10/02/24	401731.33	2050721.09	50-60	83.65	50.11	33.54
Onsite	Black Creek Aquifer	OW-13	10/02/24	400769.33	2051210.62	50-60	85.12	50.07	35.05
Onsite	Black Creek Aquifer	OW-14	10/02/24	400311.42	2051608.03	46-56	80.67	43.74	36.93
Onsite	Black Creek Aquifer	OW-15	10/02/24	399719.91	2051608.62	34-44	87.86	29.73	58.13
Onsite	Black Creek Aquifer	OW-16	10/02/24	399828.66	2051993.25	15-25	52.94	13.66	39.28
Onsite	Black Creek Aquifer	OW-17	10/02/24	399433.03	2051661.47	58-68	89.67	56.33	33.34
Onsite	Black Creek Aquifer	OW-18	10/02/24	398846.69	2051836.19	45-55	90.88	44.16	46.72
Onsite	Black Creek Aquifer	OW-19	10/02/24	398067.23	2051976.50	70-80	86.68	54.43	32.25

TABLE A3
GROUNDWATER ELEVATIONS - Q4 2024
Chemours Fayetteville Works, North Carolina

Area ¹	Water Bearing Unit ²	Well ID	Gauging Date	Northing (ft, SPCS NAD83) ³	Easting (ft, SPCS NAD83) ³	Screened Interval (ft)	TOC Elevation (ft, NAVD 88) ⁴	Depth to Water (ft from TOC)	Water Level (ft, NAVD88) ⁴
Onsite	Black Creek Aquifer	OW-2	10/02/24	398572.28	2051801.62	63-73	84.37	50.84	33.53
Onsite	Black Creek Aquifer	OW-20	10/02/24	398229.85	2052080.86	48-58	69.59	28.59	41.00
Onsite	Black Creek Aquifer	OW-21	10/02/24	397521.83	2051950.75	57-67	80.85	47.58	33.27
Onsite	Black Creek Aquifer	OW-22	10/02/24	397325.34	2052218.74	43-53	66.63	25.52	41.11
Onsite	Black Creek Aquifer	OW-23	10/02/24	396776.73	2052355.66	45-55	67.83	27.01	40.82
Onsite	Black Creek Aquifer	OW-24	10/02/24	396677.42	2052158.17	50-60	78.67	47.06	31.61
Onsite	Black Creek Aquifer	OW-25	10/02/24	396182.38	2052428.46	45-55	70.91	30.48	40.43
Onsite	Black Creek Aquifer	OW-26	10/02/24	395503.74	2052268.81	50-60	80.85	39.55	41.30
Onsite	Black Creek Aquifer	OW-27	10/02/24	395555.17	2052622.16	33-43	55.60	14.16	41.44
Onsite	Black Creek Aquifer	OW-28	10/02/24	395570.57	2052838.21	20-30	48.49	7.28	41.21
Onsite	Black Creek Aquifer	OW-29	10/02/24	395193.45	2052143.81	42-52	85.67	41.29	44.38
Onsite	Black Creek Aquifer	OW-3	10/02/24	398601.08	2051812.32	63-73	84.64	50.98	33.66
Onsite ⁵	Black Creek Aquifer	OW-30	10/02/24	394988.72	2052537.53	49-59	70.92	29.54	41.38
Onsite	Black Creek Aquifer	OW-31	10/02/24	394812.07	2051595.90	85-95	106.10	66.20	39.90
Onsite ⁵	Black Creek Aquifer	OW-33	10/02/24	395116.90	2052806.54	19-29	48.59	6.94	41.65
Onsite	Surficial Aquifer	OW-34	10/02/24	398593.54	2051813.31	23-33	83.76	15.92	67.84
Onsite	Surficial Aquifer	OW-35	10/02/24	398060.78	2051977.75	20-30	87.45	17.87	69.58
Onsite	Surficial Aquifer	OW-36	10/02/24	397257.46	2051997.45	11-21	80.61	16.69	63.92
Onsite	Black Creek Aquifer	OW-38	10/02/24	394885.22	2051883.97	60-70	123.70	59.58	64.12
Onsite	Black Creek Aquifer	OW-4	NM	395049.16	2052210.81	47-57	80.85	NM	NM
Onsite ⁵	Black Creek Aquifer	OW-40	10/02/24	394588.05	2052521.39	49-59	72.88	30.73	42.15
Onsite	Black Creek Aquifer	OW-41	10/02/24	401683.74	2050119.92	82-92	93.66	47.21	46.45
Onsite	Black Creek Aquifer	OW-42	10/02/24	401696.05	2050448.24	58-68	87.37	41.64	45.73
Onsite	Black Creek Aquifer	OW-43	10/02/24	400937.73	2051116.17	40-50	76.94	42.37	34.57
Onsite	Black Creek Aquifer	OW-44	10/02/24	399741.48	2051736.45	34-44	73.18	34.87	38.31
Onsite	Black Creek Aquifer	OW-45	10/02/24	398836.07	2051955.99	50-60	77.10	35.59	41.51
Onsite	Black Creek Aquifer	OW-46	10/02/24	398164.94	2052050.69	59-69	72.05	31.03	41.02
Onsite	Black Creek Aquifer	OW-47	10/02/24	397243.89	2052136.32	49-59	71.47	30.59	40.88
Onsite	Black Creek Aquifer	OW-48	10/02/24	396698.39	2052275.93	42-52	69.54	28.85	40.69
Onsite	Black Creek Aquifer	OW-49	10/02/24	396180.56	2052348.51	53-63	79.56	39.14	40.42
Onsite	Black Creek Aquifer	OW-5	NM	395070.03	2052196.97	54-64	81.61	NM	NM
Onsite	Black Creek Aquifer	OW-55	10/02/24	401761.92	2050875.02	43-58	75.45	42.56	32.89
Onsite	Black Creek Aquifer	OW-57	10/02/24	401781.20	2050174.65	33-43	68.87	24.05	44.82
Onsite	Black Creek Aquifer	OW-6	NM	396168.41	2052223.54	50-60	80.53	NM	NM
Onsite	Black Creek Aquifer	OW-7	10/02/24	397180.06	2052052.69	57-67	81.45	48.54	32.91
Onsite	Black Creek Aquifer	OW-8	10/02/24	397202.33	2052041.98	57-67	82.30	50.15	32.15
Onsite	Black Creek Aquifer	OW-9	NM	395075.14	2052211.07	54-64	79.78	NM	NM
Onsite	Black Creek Aquifer	PIW-10DR	10/02/24	395093.99	2052297.30	53-58	75.91	31.85	42.03
Onsite	Surficial Aquifer	PIW-10S	10/02/24	395104.95	2052296.98	7-17	76.32	18.05	55.97
Onsite	Black Creek Aquifer	PIW-11	10/02/24	401911.03	2050416.29	47-57	67.02	22.72	44.30
Onsite	Black Creek Aquifer	PIW-12	10/02/24	401703.10	2051025.77	64-74	83.78	52.11	31.67
Onsite	Black Creek Aquifer	PIW-13	10/02/24	401464.29	2051122.60	54-64	83.18	51.21	31.97
Onsite	Black Creek Aquifer	PIW-14	10/02/24	401163.98	2051186.57	56-66	87.43	53.98	33.45
Onsite	Black Creek Aquifer	PIW-15	10/02/24	400706.51	2051532.80	34-44	67.85	31.73	36.12
Onsite	Black Creek Aquifer	PIW-16D	10/02/24	396257.96	2046587.07	90-100	150.06	23.98	126.08
Onsite	Surficial Aquifer	PIW-16S	10/02/24	396267.84	2046586.09	35-45	149.74	19.81	129.93
Onsite	Black Creek Aquifer	PIW-1D	10/02/24	400548.00	2051801.28	24.5-29.5	52.16	15.43	36.73
Onsite	Floodplain Deposits	PIW-1S	10/02/24	400541.03	2051792.39	7.8-17.8	54.04	16.65	37.39
Onsite	Black Creek Aquifer	PIW-2D	10/02/24	399925.40	2051315.80	40-50	96.19	38.92	57.27
Onsite	Black Creek Aquifer	PIW-3D	10/02/24	399711.25	2052086.94	19-24	53.42	14.06	39.36
Onsite	Black Creek Aquifer	PIW-4D	10/02/24	398816.52	2052101.94	32.3-37.3	52.85	11.43	41.42
Onsite	Surficial Aquifer	PIW-5SR	NM	398545.10	2051977.53	9.8-19.8	79.02	DRY	DRY
Onsite	Floodplain Deposits	PIW-6S	10/02/24	398117.93	2052539.79	18-28	53.40	13.53	39.87
Onsite	Black Creek Aquifer	PIW-7D	10/02/24	396787.77	2052595.65	29-34	48.93	8.01	40.92
Onsite	Floodplain Deposits	PIW-7S	10/02/24	396786.97	2052589.10	7-17	47.97	7.03	40.94
Onsite	Black Creek Aquifer	PIW-8D	10/02/24	396403.37	2052682.10	35.5-40	48.66	8.41	40.25
Onsite	Black Creek Aquifer	PIW-9D	NM	396155.84	2052250.84	40-45	79.64	NM	NM
Onsite	Surficial Aquifer	PIW-9S	NM	396148.52	2052251.03	24.8-29.8	79.64	NM	NM
Onsite	Perched Zone	PW-01	10/02/24	399064.80	2049654.30	11-21	149.55	13.65	135.90
Onsite	Surficial Aquifer	PW-02	10/02/24	399779.06	2050649.47	50-60	146.43	63.25	83.18
Onsite	Surficial Aquifer	PW-03	10/02/24	397339.81	2050765.32	35-45	147.97	48.39	99.58
Onsite	Surficial Aquifer	PW-04	10/02/24	394659.55	2050940.66	17-27	97.75	23.79	73.96
Onsite	Surficial Aquifer	PW-05	10/02/24	395873.10	2047812.93	65-75	150.34	32.25	118.09
Onsite	Surficial Aquifer	PW-06	10/02/24	392868.00	2045288.77	19-29	147.69	19.93	127.76
Onsite	Surficial Aquifer	PW-07	10/02/24	390847.71	2049258.26	28-38	148.16	31.77	116.39
Onsite	Black Creek Aquifer	PW-09	10/07/24	402000.08	2048979.11	44-54	72.93	25.03	47.90
Onsite	Black Creek Aquifer	PW-10RR	10/02/24	398532.45	2051965.91	57-67	79.97	38.73	41.24
Onsite	Black Creek Aquifer	PW-11	10/02/24	394354.36	2052226.72	53-63	73.26	31.86	41.40
Onsite	Black Creek Aquifer	PW-12	10/02/24	399500.45	2047063.51	109-119	150.61	61.62	88.99
Onsite	Black Creek Aquifer	PW-13	10/02/24	397584.26	2048029.18	120-130	149.36	37.40	111.96
Onsite	Black Creek Aquifer	PW-14	10/02/24	397325.65	2050766.36	136-146	147.97	65.71	82.26
Onsite	Black Creek Aquifer	PW-15R	10/02/24	398900.88	2051011.75	110-120	136.14	66.85	69.29
Onsite	Surficial Aquifer	PZ-1	10/02/24	394928.45	2051910.97	28-38	126.65	35.60	91.05
Onsite	Perched Zone	PZ-11	10/02/24	398646.25	2049820.94	15-20	151.03	8.95	142.08
Onsite	Perched Zone	PZ-12	10/02/24	399091.19	2048978.89	15.1-20.1	149.89	18.96	130.93
Onsite	Perched Zone	PZ-13	10/02/24	397707.82	2050985.25	7.1-12.1	148.14	10.44	137.70
Onsite	Perched Zone	PZ-14	10/02/24	397589.92	2050618.27	9.0-14.0	148.38	9.09	139.29
Onsite	Perched Zone	PZ-15	10/02/24	396806.39	2050107.50	10.2-15.2	147.76	12.38	135.38
Onsite	Perched Zone	PZ-17	NM	396614.82	2048872.69	21.1-26.1	150.08	NM	NM
Onsite	Perched Zone	PZ-19R	10/02/24	397998.66	2049919.52	16-21	150.05	11.98	138.07
Onsite	Surficial Aquifer	PZ-2	10/02/24	396631.77	2052167.77	15-25	78.05	12.59	65.46
Onsite	Perched Zone	PZ-20R	10/02/24	398185.81	2049784.60	15-20	151.29	13.42	137.87
Onsite	Perched Zone	PZ-21R	10/02/24	398445.16	2049883.13	17-22	150.67	11.73	138.94
Onsite	Black Creek Aquifer	PZ-22	10/02/24	397271.94	2052585.34	42.5-47.5	50.70	9.81	40.89
Onsite	Perched Zone	PZ-24	10/02/24	396117.94	2050744.07	11-16	147.53	14.32	133.21
Onsite	Perched Zone	PZ-25R	NM	395971.54	2050748.23	NM	147.51	NM	NM
Onsite	Perched Zone	PZ-26	10/02/24	396059.78	2050382.35	11-16	147.70	12.78	134.92
Onsite	Perched Zone	PZ-27	10/02/24	395922.11	2050376.76	12-17	147.17	13.65	133.52
Onsite	Perched Zone	PZ-28	10/02/24	396304.55	2049933.79	13-18	148.64	12.93	135.71
Onsite	Perched Zone	PZ-29	NM	396377.59	2049771.59	12-18	147.74	NM	NM

**TABLE A3
GROUNDWATER ELEVATIONS - Q4 2024
Chemours Fayetteville Works, North Carolina**

Area ¹	Water Bearing Unit ²	Well ID	Gauging Date	Northing (ft, SPCS NAD83) ³	Easting (ft, SPCS NAD83) ³	Screened Interval (ft)	TOC Elevation (ft, NAVD 88) ⁴	Depth to Water (ft from TOC)	Water Level (ft, NAVD88) ⁴
Onsite	Perched Zone	PZ-31	NM	396428.73	2049594.36	14-19	148.00	NM	NM
Onsite	Perched Zone	PZ-32	NM	396418.47	2049713.79	13-18	148.47	NM	NM
Onsite	Perched Zone	PZ-33	NM	396308.92	2049707.66	12.5-17.5	146.72	NM	NM
Onsite	Perched Zone	PZ-34	NM	396292.05	2049595.04	13.5-18.5	147.70	NM	NM
Onsite	Perched Zone	PZ-35	10/02/24	398232.64	2050020.49	13-18	150.43	11.49	138.94
Onsite	Perched Zone	PZ-36	NM	396086.17	2051331.44	5-8.5	135.20	NM	NM
Onsite	Perched Zone	PZ-37	NM	396042.40	2051050.05	5-8	135.56	NM	NM
Onsite	Perched Zone	PZ-38	NM	395970.01	2050569.66	5-9	137.34	NM	NM
Onsite	Perched Zone	PZ-39	NM	395921.87	2050238.18	5-10	137.93	NM	NM
Onsite	Perched Zone	PZ-40	NM	395943.02	2050031.90	5-9	138.51	NM	NM
Onsite	Perched Zone	PZ-41	NM	395979.29	2050048.97	5-8.5	138.13	NM	NM
Onsite	Perched Zone	PZ-42	NM	395961.73	2050230.23	3-7	138.17	NM	NM
Onsite	Perched Zone	PZ-43	NM	396011.61	2050567.89	5-9	137.06	NM	NM
Onsite	Perched Zone	PZ-44	NM	396082.75	2051045.25	5-7	136.26	NM	NM
Onsite	Perched Zone	PZ-45	NM	396124.41	2051323.03	2-4	135.69	NM	NM
Onsite	Surficial Aquifer	PZ-L	10/02/24	396745.80	2048684.01	13-28	147.86	30.04	117.82
Offsite	Black Creek Aquifer	ROBESON-1D	10/02/24	381416.28	2020158.93	42.75-52.75	156.36	10.55	145.81
Offsite	Surficial Aquifer	ROBESON-1S	10/02/24	381408.19	2020156.86	17-27	156.66	7.35	149.31
Onsite	Surficial Aquifer	SMW-01	10/02/24	395297.97	2043688.29	5.0-15.0	150.58	12.92	137.66
Onsite	Perched Zone	SMW-02	10/02/24	399982.23	2050655.91	5.0-20.0	144.59	12.58	132.01
Onsite	Surficial Aquifer	SMW-02B	10/02/24	399983.75	2050654.77	43.0-53.0	147.93	56.02	91.91
Onsite	Perched Zone	SMW-03	NM	399779.32	2049445.32	10.0-20.0	151.09	NM	NM
Onsite	Black Creek Aquifer	SMW-03B	10/02/24	399785.75	2049421.54	72-82	150.43	64.09	86.34
Onsite	Perched Zone	SMW-04A	NM	399668.71	2048387.57	19.5-34.5	148.09	NM	NM
Onsite	Surficial Aquifer	SMW-04B	10/02/24	399666.21	2048392.37	43.0-53.0	147.65	50.50	97.15
Onsite	Perched Zone	SMW-05	NM	399334.07	2048557.33	10.0-20.0	148.10	NM	NM
Onsite	Surficial Aquifer	SMW-05PR	10/02/24	399391.46	2049235.07	45.0-60.0	149.66	48.95	98.84
Onsite	Perched Zone	SMW-06	NM	399172.35	2048759.48	12.0-22.0	150.97	NM	NM
Onsite	Surficial Aquifer	SMW-06B	10/02/24	399144.74	2048764.94	58-68	150.32	52.34	97.98
Onsite	Perched Zone	SMW-07	10/02/24	398931.13	2048611.74	13.0-23.0	146.79	19.04	127.75
Onsite	Perched Zone	SMW-08	NM	399064.97	2048468.78	21.0-31.0	151.02	NM	NM
Onsite	Surficial Aquifer	SMW-08B	10/02/24	399058.33	2048478.84	58-68	148.81	45.27	103.54
Onsite	Surficial Aquifer	SMW-09	10/02/24	401076.89	2050017.41	52-62	141.43	60.06	81.37
Onsite	Black Creek Aquifer	SMW-10	10/02/24	402307.31	2047923.84	39-49	76.26	29.33	46.93
Onsite	Surficial Aquifer	SMW-11	10/02/24	401996.15	2048975.38	13-23	71.95	15.28	56.67
Onsite	Black Creek Aquifer	SMW-12	10/02/24	401314.20	2051007.22	88-98	118.22	86.11	32.11

Notes:

- 1 - Area - refers to location of well within site property boundary ("Onsite") and outside property boundary ("Offsite").
 - 2 - Water Bearing Unit - refers to primary aquifer unit well screen is estimated to be screened within.
 - 3 - Northing and Easting provided in North Carolina State Plane System (zone 3200), North American Datum 1983.
 - 4 - Vertical datum is North American Vertical Datum of 1988.
 - 5 - OW-30, OW-33, and OW-40 are within the USACE property but are labeled as onsite wells.
- DRY - Well was dry at time of monitoring event.
ft - feet
NAVD88 - North American Vertical Datum of 1988
NM - Not measured, well inaccessible during monitoring event.
SPCS NAD83 - State Plane Coordinate System North American Datum 1983
TOC - top of casing

**TABLE A4
GROUNDWATER SAMPLE SUMMARY AND FIELD PARAMETERS - Q4 2024
Chemours Fayetteville Works, North Carolina**

Area	Location ID	Water Bearing Unit ¹	Adjacent Surface Water Feature	Sample ID	QA/QC	Sample Collection and Field Parameters						
						Sample Date and Time	pH (S.U.)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Specific Conductivity (µS/cm)	Temperature (°C)
Offsite	BLADEN-1DR	Black Creek Aquifer	Georgia Branch Creek	CAP4Q24-BLADEN-1DR-100924	--	10/9/24 10:40	5.82	0.13	-76.50	6.56	62.63	19.00
Onsite	LTW-01	Floodplain Deposits	Cape Fear River	CAP4Q24-LTW-01-101024	--	10/10/24 10:05	4.58	0.07	59	10.02	95.44	18.08
Onsite	LTW-02	Black Creek Aquifer	Cape Fear River	CAP4Q24-LTW-02-100824	--	10/8/24 13:25	4.83	0	-39.6	16.7	103.98	19.53
Onsite	LTW-03	Floodplain Deposits	Cape Fear River	CAP4Q24-LTW-03-101024	--	10/10/24 13:25	4.49	0	55.8	5.7	90.01	18.14
Onsite	LTW-04	Floodplain Deposits	Cape Fear River	CAP4Q24-LTW-04-100924	--	10/9/24 12:30	5.28	0	-25.7	12.3	73.78	19.32
Onsite	LTW-05	Black Creek Aquifer	Cape Fear River	CAP4Q24-LTW-05-100924	--	10/9/24 14:55	5.55	0	-105.8	13.6	104.56	19.56
				CAP4Q24-LTW-05-100924-D	Field Duplicate	10/9/24 14:55	5.55	0	-105.8	13.6	104.56	19.56
Onsite	OW-28	Black Creek Aquifer	Cape Fear River	CAP4Q24-OW-28-100824	--	10/8/24 15:25	4.32	0.03	-33.9	0.28	45.49	19
Onsite	OW-33	Black Creek Aquifer	Cape Fear River	CAP4Q24-OW-33-100824	--	10/8/24 12:30	4.54	0.05	74.5	1.49	59.63	19.92
				CAP4Q24-OW-33-100824-D	Field Duplicate	10/8/24 12:30	4.54	0.05	74.5	1.49	59.63	19.92
Onsite	PIW-1D	Black Creek Aquifer	Cape Fear River / Willis Creek	CAP4Q24-PIW-1D-100824	--	10/8/24 12:10	3.66	0	270.9	18.4	185.96	20.3
Onsite	PIW-1S	Floodplain	Cape Fear River / Willis Creek	CAP4Q24-PIW-1S-100824	--	10/8/24 10:35	3.89	2.73	237.1	8.82	183.77	20.88
Onsite	PIW-3D	Black Creek Aquifer	Cape Fear River	CAP4Q24-PIW-3D-100824	--	10/8/24 14:10	5.29	0	-86.1	1.99	100.12	18.73
Onsite	PIW-7D	Black Creek Aquifer	Cape Fear River	CAP4Q24-PIW-7D-101024	--	10/10/24 11:35	6.44	0	-197.5	9.86	121.22	18.13
Onsite	PIW-7S	Floodplain Deposits	Cape Fear River	CAP4Q24-PIW-7S-100924	--	10/9/24 14:10	5.54	0	-36.7	0.47	121.37	19.4
Onsite	PW-04	Surficial Aquifer	Outfall 003	CAP4Q24-PW-04-100724	--	10/7/24 10:45	3.21	0.13	379.7	5.04	328.17	22.65
Onsite	PW-06	Surficial Aquifer	Georgia Branch Creek	CAP4Q24-PW-06-100924	--	10/9/24 16:00	4.34	4.87	253.6	0.76	52.01	19.99
Onsite	PW-07	Surficial Aquifer	Georgia Branch Creek	CAP4Q24-PW-07-100724	--	10/7/24 12:35	5.03	6.6	170	5.55	32.38	22.59
Onsite	PW-09	Black Creek Aquifer	Willis Creek	CAP4Q24-PW-09-100724	--	10/7/24 0:00	6.89	0	-146.9	19.6	76.21	18.81
Onsite	PZ-22	Black Creek Aquifer	Cape Fear River	CAP4Q24-PZ-22-100924	--	10/9/24 13:45	4.64	0	-51.3	2.07	102.57	19.83
Onsite	SMW-10	Black Creek Aquifer	Willis Creek	CAP4Q24-SMW-10-100724	--	10/7/24 0:00	4.25	0.15	-20.4	2.52	82.64	21.01
Onsite	SMW-11	Surficial Aquifer	Willis Creek	CAP4Q24-SMW-11-101124	--	10/11/24 10:10	7.74	7.67	-25.6	4.74	5.84	18.01
Onsite	SMW-12	Black Creek Aquifer	Willis Creek	CAP4Q24-SMW-12-101024	--	10/10/24 15:20	4.55	0.87	253.6	15.64	150.5	18.8

Notes:

1 - Water Bearing Unit - refers to the primary aquifer unit where the well screen is estimated to be located.

°C - degrees Celsius

mg/L - milligrams per liter

µS/cm - microsiemens per centimeter

mV- millivolts

NTU - Nephelometric Turbidity Units

ORP - oxidation reduction potential

S.U. - Standard Units

"-Z" in Sample ID denotes field filtration

**TABLE A5
SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	CFR-BLADEN	CFR-KINGS	CFR-MILE-76	CFR-TARHEEL
Field Sample ID	CAP4Q24-CFR-BLADEN-102424	CAP4Q24-CFR-KINGS-102424	CAP4Q24-CFR-RM-76-102324	CAP4Q24-CFR-TARHEEL-102424
Sample Date	10/24/2024	10/24/2024	10/23/2024	10/24/2024
QA/QC				
Sample Delivery Group (SDG)	320-116530-1	320-116530-1	320-116530-1	320-116530-1
Lab Sample ID	320-116530-5	320-116530-7	320-116530-2	320-116530-6
<i>Table 3+ (ng/L)</i>				
HFPO Dimer Acid	6.7	5.8	<4.0	6.6
PFMOAA	23	34	<2.0	22
PFO2HxA	8.9	11	<2.0	8.9
PFO3OA	2.0	2.3	<2.0	<2.0
PFO4DA	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0
PMPA	14	13	5.2	13
PEPA	2.8	2.6	<2.0	2.5
PS Acid	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0
R-PSDA	9.3 J	22 J	3.8 J	9.8 J
Hydrolyzed PSDA	4.8 J	5.3 J	<2.0	4.7 J
R-PSDCA	<3.0	<3.0	<3.0	<3.0
NVHOS, Acid Form	<3.0	<3.0	<3.0	<3.0
EVE Acid	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0
R-EVE	4.3 J	29 J	<2.0	3.7 J
Perfluoro(2-ethoxyethane)sulfonic Acid	<2.0	<2.0	<2.0	<2.0
PFECA B	<2.0	<2.0	<2.0	<2.0
PFECA-G	<2.0	<2.0	<2.0	<2.0
PFPrA	31	30	16	32
Perfluoroheptanoic Acid	2.6	2.5	2.7	2.5
Total Attachment C^{1,2}	57	69	5.2	53
Total Table 3+ (17 compounds)^{1,2}	57	69	5.2	53
Total Table 3+ (18 compounds)^{1,3}	88	99	21	85
Total Table 3+ (21 compounds)¹	110	150	25	100

**TABLE A5
SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	CFR-TARHEEL	GBC-1	LOCK-DAM NORTH	LOCK-DAM SEEP
Field Sample ID	CAP4Q24-CFR-TARHEEL-24-102424	CAP4Q24-GBC-1-102324	CAP4Q24-LOCK-DAM-NORTH-102324	CAP4Q24-LOCK-DAM-SEEP-102324
Sample Date	10/24/2024	10/23/2024	10/23/2024	10/23/2024
QA/QC				
Sample Delivery Group (SDG)	320-116573-1	320-116530-1	320-116530-1	320-116513-1
Lab Sample ID	320-116573-1	320-116530-3	320-116530-1	320-116513-4
<i>Table 3+ (ng/L)</i>				
HFPO Dimer Acid	6.5	290	2,600	6,000
PFMOAA	15	72	4,200	36,000
PFO2HxA	10	230	2,600	12,000
PFO3OA	2.4	37	470	6,000
PFO4DA	<2.0	9.6	82	1,700
PFO5DA	<2.0	<2.0	<130	<130
PMPA	15	450	2,400	4,100
PEPA	2.6	130	880	1,400
PS Acid	<2.0	<2.0	<50	<50
Hydro-PS Acid	<2.0	22	75	200
R-PSDA	6.1 J	70 J	270 J	790 J
Hydrolyzed PSDA	4.0 J	<2.0	<34	780 J
R-PSDCA	<3.0	<3.0	<180	<180
NVHOS, Acid Form	<3.0	<3.0	<160	740
EVE Acid	<2.0	<2.0	<50	<50
Hydro-EVE Acid	<2.0	<2.0	<30	180
R-EVE	2.3 J	70 J	180 J	270 J
Perfluoro(2-ethoxyethane)sulfonic Acid	<2.0	<2.0	<36	<36
PFECA B	<2.0	<2.0	<78	<78
PFECA-G	<2.0	<2.0	<36	<36
PFPrA	30	440	3,800	13,000
Perfluoroheptanoic Acid	2.8	<2.0	<31	55
Total Attachment C^{1,2}	52	1,200	13,000	67,000
Total Table 3+ (17 compounds)^{1,2}	52	1,200	13,000	68,000
Total Table 3+ (18 compounds)^{1,3}	82	1,700	17,000	81,000
Total Table 3+ (21 compounds)¹	94	1,800	18,000	83,000

**TABLE A5
SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	OLDOF-1	OUTFALL 002	RIVER WATER INTAKE 2	WC-1
Field Sample ID	CAP4Q24-OLDOF-1-24-102424	CAP4Q24-OUTFALL-002-24-102424	RIVER-WATER-INTAKE-24-102424	CAP4Q24-WC-1-24-102424
Sample Date	10/24/2024	10/24/2024	10/24/2024	10/24/2024
QA/QC				
Sample Delivery Group (SDG)	320-116525-1	320-116525-1	320-116530-1	320-116513-1
Lab Sample ID	320-116525-4	320-116525-3	320-116530-4	320-116513-2
<i>Table 3+ (ng/L)</i>				
HFPO Dimer Acid	290	75	22	220
PFMOAA	1,700	82	64	880
PFO2HxA	580	35	25	310
PFO3OA	150	7.5	4.4	59
PFO4DA	64	4.5	<2.0	10
PFO5DA	23	2.4	<2.0	<2.0
PMPA	210	48	31	300
PEPA	69	13	6.1	72
PS Acid	<2.0	3.2	<2.0	<2.0
Hydro-PS Acid	14	4.6	<2.0	10
R-PSDA	110 J	76 J	21 J	150 J
Hydrolyzed PSDA	99 J	110 J	26 J	340 J
R-PSDCA	<3.0	<3.0	<3.0	<3.0
NVHOS, Acid Form	17	<3.0	<3.0	9.9 J
EVE Acid	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	7.4	2.0	<2.0	3.0
R-EVE	47 J	30 J	8.3 J	70 J
Perfluoro(2-ethoxyethane)sulfonic Acid	<2.0	<2.0	<2.0	<2.0
PFECA B	<2.0	<2.0	<2.0	<2.0
PFECA-G	<2.0	<2.0	<2.0	<2.0
PFPrA	620	260	360	460
Perfluoroheptanoic Acid	2.1	2.9	2.7	<2.0
Total Attachment C^{1,2}	3,100	280	150	1,900
Total Table 3+ (17 compounds)^{1,2}	3,100	280	150	1,900
Total Table 3+ (18 compounds)^{1,3}	3,700	540	510	2,300
Total Table 3+ (21 compounds)¹	4,000	750	570	2,900

TABLE A5
SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Location ID	WC-1	EB
Field Sample ID	CAP4Q24-WC-1-24-102424-D	CAP4Q24-EQBLK-IS-102424
Sample Date	10/24/2024	10/24/2024
QA/QC	Field Duplicate	Equipment Blank
Sample Delivery Group (SDG)	320-116513-1	320-116525-1
Lab Sample ID	320-116513-3	320-116525-1
Table 3+ (ng/L)		
HFPO Dimer Acid	230	<4.0
PFMOAA	790	<2.0
PFO2HxA	390	<2.0
PFO3OA	59	<2.0
PFO4DA	11	<2.0
PFO5DA	<2.0	<2.0
PMPA	340	<2.0
PEPA	88	<2.0
PS Acid	<2.0	<2.0
Hydro-PS Acid	12	<2.0
R-PSDA	180 J	<2.0
Hydrolyzed PSDA	320 J	<2.0
R-PSDCA	<3.0	<3.0
NVHOS, Acid Form	16 J	<3.0
EVE Acid	<2.0	<2.0
Hydro-EVE Acid	3.7	<2.0
R-EVE	59 J	<2.0
Perfluoro(2-ethoxyethane)sulfonic Acid	<2.0	<2.0
PFECA B	<2.0	<2.0
PFECA-G	<2.0	<2.0
PFPrA	490	<5.0
Perfluoroheptanoic Acid	2.2	<2.0
Total Attachment C^{1,2}	1,900	ND
Total Table 3+ (17 compounds)^{1,2}	1,900	ND
Total Table 3+ (18 compounds)^{1,3}	2,400	ND
Total Table 3+ (21 compounds)¹	3,000	ND

**TABLE A5
SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	EB
Field Sample ID	CAP4Q24-EQBLK-PP-SW-102424
Sample Date	10/24/2024
QA/QC	Equipment Blank
Sample Delivery Group (SDG)	320-116525-1
Lab Sample ID	320-116525-2
Table 3+ (ng/L)	
HFPO Dimer Acid	<4.0
PFMOAA	<2.0
PFO2HxA	<2.0
PFO3OA	<2.0
PFO4DA	<2.0
PFO5DA	<2.0
PMPA	<2.0
PEPA	<2.0
PS Acid	<2.0
Hydro-PS Acid	<2.0
R-PSDA	<2.0
Hydrolyzed PSDA	<2.0
R-PSDCA	<3.0
NVHOS, Acid Form	<3.0
EVE Acid	<2.0
Hydro-EVE Acid	<2.0
R-EVE	<2.0
Perfluoro(2-ethoxyethane)sulfonic Acid	<2.0
PFECA B	<2.0
PFECA-G	<2.0
PFPrA	<5.0
Perfluoroheptanoic Acid	<2.0
Total Attachment C^{1,2}	ND
Total Table 3+ (17 compounds)^{1,2}	ND
Total Table 3+ (18 compounds)^{1,3}	ND
Total Table 3+ (21 compounds)¹	ND

Notes:

-- Not measured

Bold - Analyte detected above associated reporting limit

J - Analyte detected. Reported value may not be accurate or precise.

ND - No analytes were detected above the associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SDG - Sample Delivery Group

< - Analyte not detected above associated reporting limit.

UJ – Analyte not detected. Reporting limit may not be accurate or precise.

1 - Total Attachment C does not include Perfluoroheptanoic acid (PFHpA).

2 - Total Table 3+ and Total Attachment C were calculated including J qualified data but not non-detect data. The sum is rounded to two significant figures.

3 - Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, R-EVE, and PFPrA.

4 - Total Table 3+ (18 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, and R-EVE.

**TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit ¹	Black Creek Aquifer	Floodplain Deposits	Black Creek Aquifer	Floodplain Deposits
Location ID	BLADEN-1DR	LTW-01	LTW-02	LTW-03
Field Sample ID	CAP4Q24-BLADEN-1DR-100924	CAP4Q24-LTW-01-101024	CAP4Q24-LTW-02-100824	CAP4Q24-LTW-03-101024
Sample Date	09-Oct-24	10-Oct-24	08-Oct-24	10-Oct-24
QA/QC				
Sample Delivery Group (SDG)	320-116122-1	320-116122-1	320-116097-1	320-116122-1
Lab Sample ID	320-116122-4	320-116122-1	320-116097-8	320-116122-2
<i>Table 3+ (ng/L)</i>				
HFPO-DA	160 J	7,800	16,000	7,600
PFMOAA	29 J	7,500	36,000	89,000
PFO2HxA	110 J	13,000	26,000	34,000
PFO3OA	12 J	2,000	6,500	5,100
PFO4DA	<2.0 UJ	1,100	410	160
PFO5DA	<2.0 UJ	210	<130	<130
PMPA	330 J	7,400	15,000	12,000
PEPA	97 J	3,100	4,400	2,800
PS Acid	<2.0 UJ	<50	<50	<50
Hydro-PS Acid	<2.0 UJ	390	<55	63
R-PSDA	8.9 J	490 J	1,300 J	630 J
Hydrolyzed PSDA	<2.0 UJ	90 J	2,900 J	5,400 J
R-PSDCA	<3.0 UJ	<180	<180	<180
NVHOS, Acid Form	<3.0 UJ	<160	640	990
EVE Acid	<2.0 UJ	<50	<50	<50
Hydro-EVE Acid	<2.0 UJ	72	110	53
R-EVE	4.0 J	170 J	880 J	260 J
Perfluoro(2-ethoxyethane)sulfonic Acid	<2.0 UJ	<36	<36	<36
PFECA B	<2.0 UJ	<78	<78	<78
PFECA-G	<2.0 UJ	<36	<36	<36
PFPrA	220 J	7,900	22,000	36,000
Perfluoroheptanoic Acid	<2.0 UJ	34	<31	<31
Total Attachment C^{2,3}	740	43,000	100,000	150,000
Total Table 3+ (17 compounds)^{3,4}	740	43,000	110,000	150,000
Total Table 3+ (18 compounds)^{3,5}	960	50,000	130,000	190,000
Total Table 3+ (21 compounds)³	970	51,000	130,000	190,000

**TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit¹	Floodplain Deposits	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	LTW-04	LTW-05	LTW-05	OW-28
Field Sample ID	CAP4Q24-LTW-04-100924	CAP4Q24-LTW-05-100924	CAP4Q24-LTW-05-100924-D	CAP4Q24-OW-28-100824
Sample Date	09-Oct-24	09-Oct-24	09-Oct-24	08-Oct-24
QA/QC			Field Duplicate	
Sample Delivery Group (SDG)	320-116122-1	320-116140-1	320-116140-1	320-116104-1
Lab Sample ID	320-116122-3	320-116140-1	320-116140-2	320-116104-3
<i>Table 3+ (ng/L)</i>				
HFPO-DA	14,000	12,000	8,900	4,000
PFMOAA	44,000	73,000 J	49,000 J	1,600
PFO2HxA	25,000	27,000 J	19,000 J	2,500
PFO3OA	3,400	6,600 J	4,700 J	480
PFO4DA	360	1,000	760	110
PFO5DA	<130	<130	<130	<130
PMPA	12,000	2,900	2,200	4,400
PEPA	4,300	410 J	270 J	1,600
PS Acid	<50	<50	<50	<50
Hydro-PS Acid	120	130	100	79
R-PSDA	1,200 J	690 J	440 J	360 J
Hydrolyzed PSDA	1,800 J	1,200 J	950 J	<34
R-PSDCA	<180	<180	<180	<180
NVHOS, Acid Form	890	880 J	630 J	<160
EVE Acid	<50	<50	<50	<50
Hydro-EVE Acid	260	490 J	360 J	<30
R-EVE	950 J	800 J	610 J	160 J
Perfluoro(2-ethoxyethane)sulfonic Acid	<36	<36	<36	<36
PFECA B	<78	<78	<78	<78
PFECA-G	<36	<36	<36	<36
PFPrA	35,000	44,000 J	32,000 J	4,100
Perfluoroheptanoic Acid	42	140 J	91 J	<31
Total Attachment C^{2,3}	100,000	120,000	85,000	15,000
Total Table 3+ (17 compounds)^{3,4}	100,000	120,000	86,000	15,000
Total Table 3+ (18 compounds)^{3,5}	140,000	170,000	120,000	19,000
Total Table 3+ (21 compounds)³	140,000	170,000	120,000	19,000

TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Water Bearing Unit ¹	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Floodplain Deposits
Location ID	OW-33	OW-33	PIW-1D	PIW-1S
Field Sample ID	CAP4Q24-OW-33-100824	CAP4Q24-OW-33-100824-D	CAP4Q24-PIW-1D-100824	CAP4Q24-PIW-1S-100824
Sample Date	08-Oct-24	08-Oct-24	08-Oct-24	08-Oct-24
QA/QC		Field Duplicate		
Sample Delivery Group (SDG)	320-116104-1	320-116104-1	320-116104-1	320-116104-1
Lab Sample ID	320-116104-1	320-116104-2	320-116104-4	320-116104-5
<i>Table 3+ (ng/L)</i>				
HFPO-DA	5,400	5,400	4,900	590
PFMOAA	8,700	8,100	3,200	280
PFO2HxA	4,700	4,800	4,200	910
PFO3OA	740	700	700	170
PFO4DA	<50	<50	200	130
PFO5DA	<130	<130	<130	<130
PMPA	5,400	4,800	3,700	320
PEPA	1,800	1,700	1,200	60
PS Acid	<50	<50	<50	<50
Hydro-PS Acid	<55	<55	170	230
R-PSDA	360 J	300 J	290 J	150 J
Hydrolyzed PSDA	62 J	54 J	<34	<34
R-PSDCA	<180	<180	<180	<180
NVHOS, Acid Form	160	<160	<160	<160
EVE Acid	<50	<50	<50	<50
Hydro-EVE Acid	<30	<30	<30	<30
R-EVE	230 J	220 J	150 J	<39
Perfluoro(2-ethoxyethane)sulfonic Acid	<36	<36	<36	<36
PFECA B	<78	<78	<78	<78
PFECA-G	<36	<36	<36	<36
PFPrA	7,400	7,300	4,300	660
Perfluoroheptanoic Acid	<31	<31	<31	<31
Total Attachment C^{2,3}	27,000	26,000	18,000	2,700
Total Table 3+ (17 compounds)^{3,4}	27,000	26,000	18,000	2,700
Total Table 3+ (18 compounds)^{3,5}	34,000	33,000	23,000	3,400
Total Table 3+ (21 compounds)³	35,000	33,000	23,000	3,500

**TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit¹	Black Creek Aquifer	Black Creek Aquifer	Floodplain Deposits	Surficial Aquifer
Location ID	PIW-3D	PIW-7D	PIW-7S	PW-04
Field Sample ID	CAP4Q24-PIW-3D-100824	CAP4Q24-PIW-7D-101024	CAP4Q24-PIW-7S-100924	CAP4Q24-PW-04-100724
Sample Date	08-Oct-24	10-Oct-24	09-Oct-24	07-Oct-24
QA/QC				
Sample Delivery Group (SDG)	320-116104-1	320-116140-1	320-116140-1	320-116097-1
Lab Sample ID	320-116104-6	320-116140-5	320-116140-4	320-116097-7
<i>Table 3+ (ng/L)</i>				
HFPO-DA	16,000	8,000	6,600	<190
PFMOAA	17,000	54,000	5,700	160
PFO2HxA	19,000	21,000	5,000	460
PFO3OA	3,400	2,800	1,700	150
PFO4DA	1,000	410	200	170
PFO5DA	<130	<130	<130	<130
PMPA	14,000	2,700	3,800	480
PEPA	4,900	490	1,400	110
PS Acid	<50	<50	<50	<50
Hydro-PS Acid	280	<55	170	210
R-PSDA	1,100 J	400 J	600 J	68 J
Hydrolyzed PSDA	180 J	800 J	<34	<34
R-PSDCA	<180	<180	<180	<180
NVHOS, Acid Form	270	690	380	<160
EVE Acid	<50	<50	<50	<50
Hydro-EVE Acid	96	150	240	<30
R-EVE	510 J	510 J	680 J	<39
Perfluoro(2-ethoxyethane)sulfonic Acid	<36	<36	<36	<36
PFECA B	<78	<78	<78	<78
PFECA-G	<36	<36	<36	<36
PFPrA	17,000	33,000	6,400	740
Perfluoroheptanoic Acid	<31	35	<31	<31
Total Attachment C^{2,3}	76,000	89,000	25,000	1,700
Total Table 3+ (17 compounds)^{3,4}	76,000	90,000	25,000	1,700
Total Table 3+ (18 compounds)^{3,5}	93,000	120,000	32,000	2,500
Total Table 3+ (21 compounds)³	95,000	120,000	33,000	2,500

**TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit ¹	Surficial Aquifer	Surficial Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	PW-06	PW-07	PW-09	PZ-22
Field Sample ID	CAP4Q24-PW-06-100924	CAP4Q24-PW-07-100724	CAP4Q24-PW-09-100724	CAP4Q24-PZ-22-100924
Sample Date	10/9/2024	10/7/2024	10/7/2024	10/9/2024
QA/QC				
Sample Delivery Group (SDG)	320-116122-1	320-116097-1	320-116097-1	320-116140-1
Lab Sample ID	320-116122-6	320-116097-6	320-116097-4	320-116140-3
<i>Table 3+ (ng/L)</i>				
HFPO-DA	530	190	4.8	6,900
PFMOAA	74	100	18	65,000
PFO2HxA	560	340	7.5	22,000
PFO3OA	<110	48	<2.0	2,600
PFO4DA	58	55	<2.0	170
PFO5DA	<130	<2.0	<2.0	<130
PMPA	490	240	9.1	3,500
PEPA	180	69	2.3	730
PS Acid	<50	<2.0	<2.0	<50
Hydro-PS Acid	<55	16	<2.0	<55
R-PSDA	< 35	140 J	<2.0	370 J
Hydrolyzed PSDA	<34	<2.0	<2.0	1,100 J
R-PSDCA	<180	<3.0	<3.0	<180
NVHOS, Acid Form	<160	<3.0	<3.0	750
EVE Acid	<50	<2.0	<2.0	<50
Hydro-EVE Acid	<30	4.5	<2.0	59
R-EVE	<39	150 J	<2.0	290 J
Perfluoro(2-ethoxyethane)sulfonic Acid	<36	<2.0	<2.0	<36
PFECA B	<78	<2.0	<2.0	<78
PFECA-G	<36	<2.0	<2.0	<36
PFPrA	420	510	11	34,000
Perfluoroheptanoic Acid	<31	2.8	<2.0	<31
Total Attachment C^{2,3}	1,900	1,100	42	100,000
Total Table 3+ (17 compounds)^{3,4}	1,900	1,100	42	100,000
Total Table 3+ (18 compounds)^{3,5}	2,300	1,600	53	140,000
Total Table 3+ (21 compounds)³	2,300	1,900	53	140,000

**TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit¹	Black Creek Aquifer	Surficial Aquifer	Black Creek Aquifer
Location ID	SMW-10	SMW-11	SMW-12
Field Sample ID	CAP4Q24-SMW-10-100724	CAP4Q24-SMW-11-101124	CAP4Q24-SMW-12-101024
Sample Date	10/7/2024	10/11/2024	10/10/2024
QA/QC			
Sample Delivery Group (SDG)	320-116097-1	320-116167-1	320-116122-1
Lab Sample ID	320-116097-5	320-116167-1	320-116122-5
Table 3+ (ng/L)			
HFPO-DA	7.3	1,700	2,400
PFMOAA	170	1,900 J	7,300
PFO2HxA	25	1,900 J	3,600
PFO3OA	<2.0	260	340
PFO4DA	<2.0	190	<50
PFO5DA	<2.0	<130	<130
PMPA	33	940	3,600
PEPA	<2.0	320	800
PS Acid	<2.0	<50	<50
Hydro-PS Acid	<2.0	110	<55
R-PSDA	<2.0	57 J	84 J
Hydrolyzed PSDA	<2.0	<34	<34
R-PSDCA	<3.0	<180	<180
NVHOS, Acid Form	<3.0	<160	<160
EVE Acid	<2.0	<50	<50
Hydro-EVE Acid	<2.0	<30	<30
R-EVE	<2.0	42 J	62 J
Perfluoro(2-ethoxyethane)sulfonic Acid	<2.0	<36	<36
PFECA B	<2.0	<78	<78
PFECA-G	<2.0	<36	<36
PFPrA	230	1,800	5,500
Perfluoroheptanoic Acid	<2.0	<31	<31
Total Attachment C^{2,3}	240	7,300	18,000
Total Table 3+ (17 compounds)^{3,4}	240	7,300	18,000
Total Table 3+ (18 compounds)^{3,5}	470	9,100	24,000
Total Table 3+ (21 compounds)³	470	9,200	24,000

**TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit¹		
Location ID	EB	EB
Field Sample ID	CAP4Q24-EQBLK-BP-100924	CAP4Q24-EQBLK-DV-100924
Sample Date	09-Oct-24	09-Oct-24
QA/QC	Equipment Blank	Equipment Blank
Sample Delivery Group (SDG)	320-116097-1	320-116097-1
Lab Sample ID	320-116097-3	320-116097-2
Table 3+ (ng/L)		
HFPO-DA	<4.0	<4.0
PFMOAA	<2.0	<2.0
PFO2HxA	<2.0	<2.0
PFO3OA	<2.0	<2.0
PFO4DA	<2.0	<2.0
PFO5DA	<2.0	<2.0
PMPA	<2.0	<2.0
PEPA	<2.0	<2.0
PS Acid	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0
R-PSDA	<2.0	<2.0
Hydrolyzed PSDA	<2.0	<2.0
R-PSDCA	<3.0	<3.0
NVHOS, Acid Form	<3.0	<3.0
EVE Acid	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0
R-EVE	<2.0	<2.0
Perfluoro(2-ethoxyethane)sulfonic Acid	<2.0	<2.0
PFECA B	<2.0	<2.0
PFECA-G	<2.0	<2.0
PFPPrA	<5.0	<5.0
Perfluoroheptanoic Acid	<2.0	<2.0
Total Attachment C^{2,3}	ND	ND
Total Table 3+ (17 compounds)^{3,4}	ND	ND
Total Table 3+ (18 compounds)^{3,5}	ND	ND
Total Table 3+ (21 compounds)³	ND	ND

**TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit¹	
Location ID	EB
Field Sample ID	CAP4Q24-EQBLK-PP-100924
Sample Date	09-Oct-24
QA/QC	Equipment Blank
Sample Delivery Group (SDG)	320-116097-1
Lab Sample ID	320-116097-1
Table 3+ (ng/L)	
HFPO-DA	<4.0
PFMOAA	<2.0
PFO2HxA	<2.0
PFO3OA	<2.0
PFO4DA	<2.0
PFO5DA	<2.0
PMPA	<2.0
PEPA	<2.0
PS Acid	<2.0
Hydro-PS Acid	<2.0
R-PSDA	<2.0
Hydrolyzed PSDA	<2.0
R-PSDCA	<3.0
NVHOS, Acid Form	<3.0
EVE Acid	<2.0
Hydro-EVE Acid	<2.0
R-EVE	<2.0
Perfluoro(2-ethoxyethane)sulfonic Acid	<2.0
PFECA B	<2.0
PFECA-G	<2.0
PFPrA	<5.0
Perfluoroheptanoic Acid	<2.0
Total Attachment C^{2,3}	ND
Total Table 3+ (17 compounds)^{3,4}	ND
Total Table 3+ (18 compounds)^{3,5}	ND
Total Table 3+ (21 compounds)³	ND

Notes:

- B - Analyte detected in an associated blank
- J - Analyte detected. Reported value may not be accurate or precise
- ND - No Table 3+ analytes were detected above the associated reporting limits
- ng/L - nanograms per liter
- QA/QC - Quality assurance/ quality control
- SDG - Sample Delivery Group
- UJ – Analyte not detected. Reporting limit may not be accurate or precise.
- "-Z" in Sample ID denotes field filtration
- < - Analyte not detected above associated reporting limit.
- - not applicable
- 1 - Refers to the primary aquifer unit that the well screen is estimated to be screened within
- 2 - Total Attachment C does not include Perfluoroheptanoic acid (PFHpA).
- 3 - Total Table 3+ and Total Attachment C were calculated including J qualified data but not non-detect data. The sum is rounded to two significant figures.
- 4 - Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, R-EVE, and PFPrA.
- 5 - Total Table 3+ (18 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, and R-EVE.

**TABLE A7
SUMMARY OF TOTAL PFAS MASS DISCHARGE BY PATHWAY AFTER REMEDIES
Chemours Fayetteville Works, North Carolina**

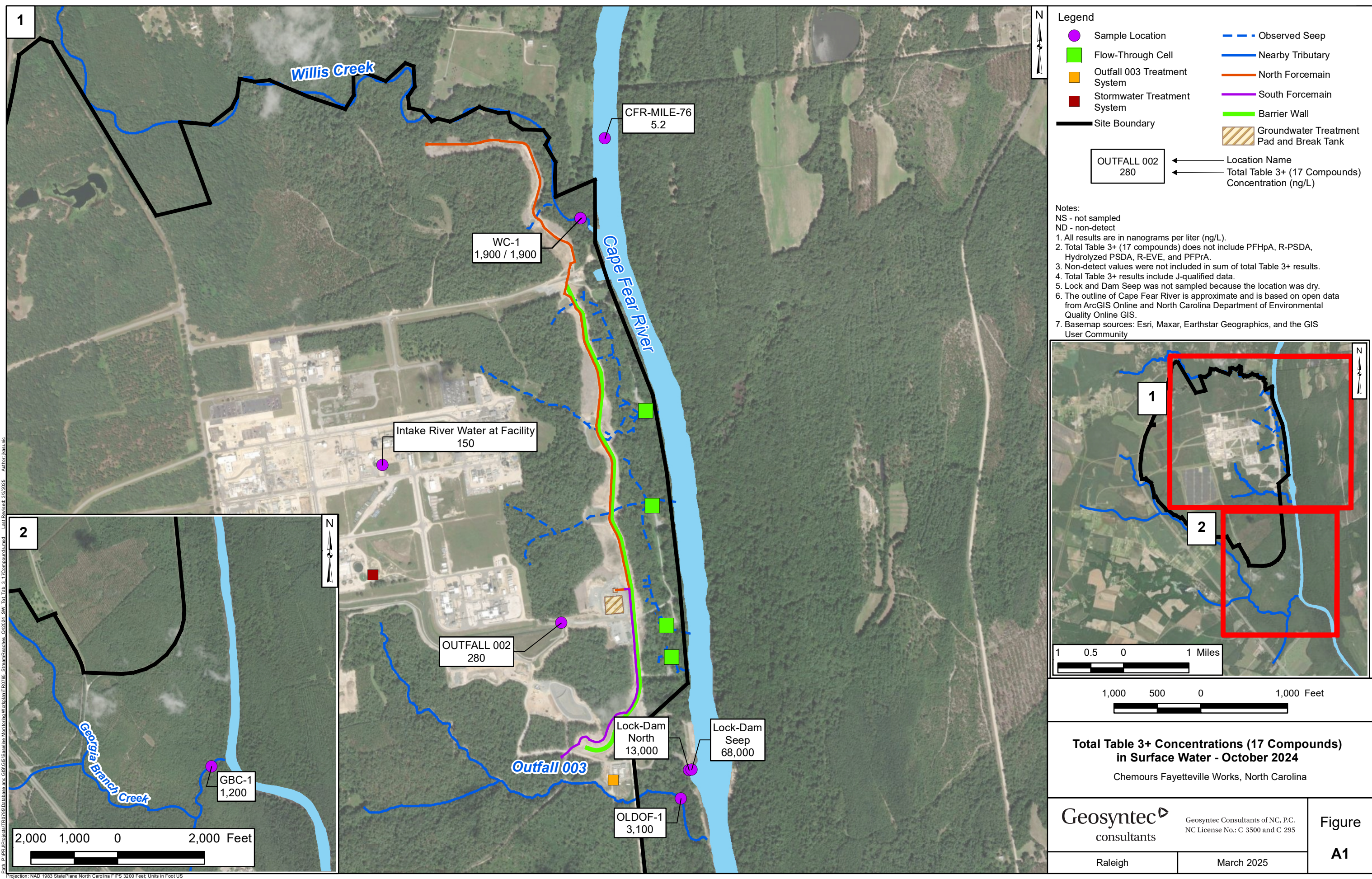
Pathway	Pathway Name	Total Flow Volume on Sample Date (MG) ¹	Total Attachment C ²		Total Table 3+ (17 compounds) ³		Total Table 3+ (18 compounds) ⁴		Total Table 3+ (21 compounds)	
			Concentration (ng/L)	Mass Discharge (mg/s)	Concentration (ng/L)	Mass Discharge (mg/s)	Concentration (ng/L)	Mass Discharge (mg/s)	Concentration (ng/L)	Mass Discharge (mg/s)
1	Upstream River Water and Groundwater ⁵	822	5.2	0.2	5.2	0.2	21	0.76	25	0.90
2	Willis Creek	3.89	1,900	0.32	1,900	0.32	2,300	0.39	2,900	0.49
3	Aerial Deposition on Water Features	--	--	0.01	--	0.01	--	0.01	--	0.01
4	Outfall 002 ⁶	16	130	0.09	130	0.09	30	0.02	180	0.13
4A	Stormwater Treatment System ⁷	--	--	--	--	--	--	--	--	--
5	Onsite Groundwater ⁸	--	--	0.04	--	0.04	--	0.06	--	0.06
6A	Seep A	--	--	--	--	--	--	--	--	--
6B	Seep B	--	--	--	--	--	--	--	--	--
6C	Seep C	--	--	--	--	--	--	--	--	--
6D	Seep D	--	--	--	--	--	--	--	--	--
6E	Lock and Dam Seep	5.4E-03	67,000	0.015854991	68,000	0.016091633	81,000	0.019167974	83,000	0.019641258
6F	Lock and Dam Seep North	1.2E-03	13,000	6.7E-04	13,000	6.7E-04	17,000	8.7E-04	18,000	9.2E-04
7	Outfall 003 Stream ⁹	0.05	3,100	7.2E-03	3,100	7.2E-03	3,700	0.01	4,000	9.4E-03
8	Offsite Adjacent and Downstream Groundwater	--	--	0.07	--	0.07	--	0.28	--	0.34
9	Georgia Branch Creek	1.36	1,200	0.07	1,200	0.07	1,700	0.10	1,800	0.11
Calculated Total Table 3+ Loading (mg/s) at Tar Heel				0.82		0.82		1.65		2.06

Notes:

- Not calculated. The location was not sampled during the mass loading model event.
- 1 - Total flow volume is determined based on measurements taken over 24-hour sample collection period for all locations except Willis Creek, Lock and Dam Seep, Outfall 003, and Georgia Branch Creek. At these locations, the total flow volume was estimated based on the instantaneous flow measurement.
- 2 - Mass discharge calculations for Total Attachment C does not include Perfluoroheptanoic acid (PFHpA).
- 3 - Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, R-EVE and PFPrA.
- 4 - Total Table 3+ (18 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, and R-EVE.
- 5 - The volumetric flow rate for upstream river water and groundwater was estimated by subtracting inflows from Willis Creek, upwelling groundwater, seeps to the river, and Outfall 002 and by adding the river water intake from Chemours to the flow rate measurement from the W.O. Huske Dam.
- 6 - Total PFAS concentrations at the Intake River Water at Facility location are subtracted from Outfall 002 concentrations to compute the mass discharge at Outfall 002.
- 7 - The stormwater treatment system captures PFAS originating from Stormwater in the Monomers/IXM area that would otherwise flow to Outfall 002 during storm events. During the October sampling event there was no stormwater flow to the stormwater treatment system, so there was no mass loading calculated for this location.

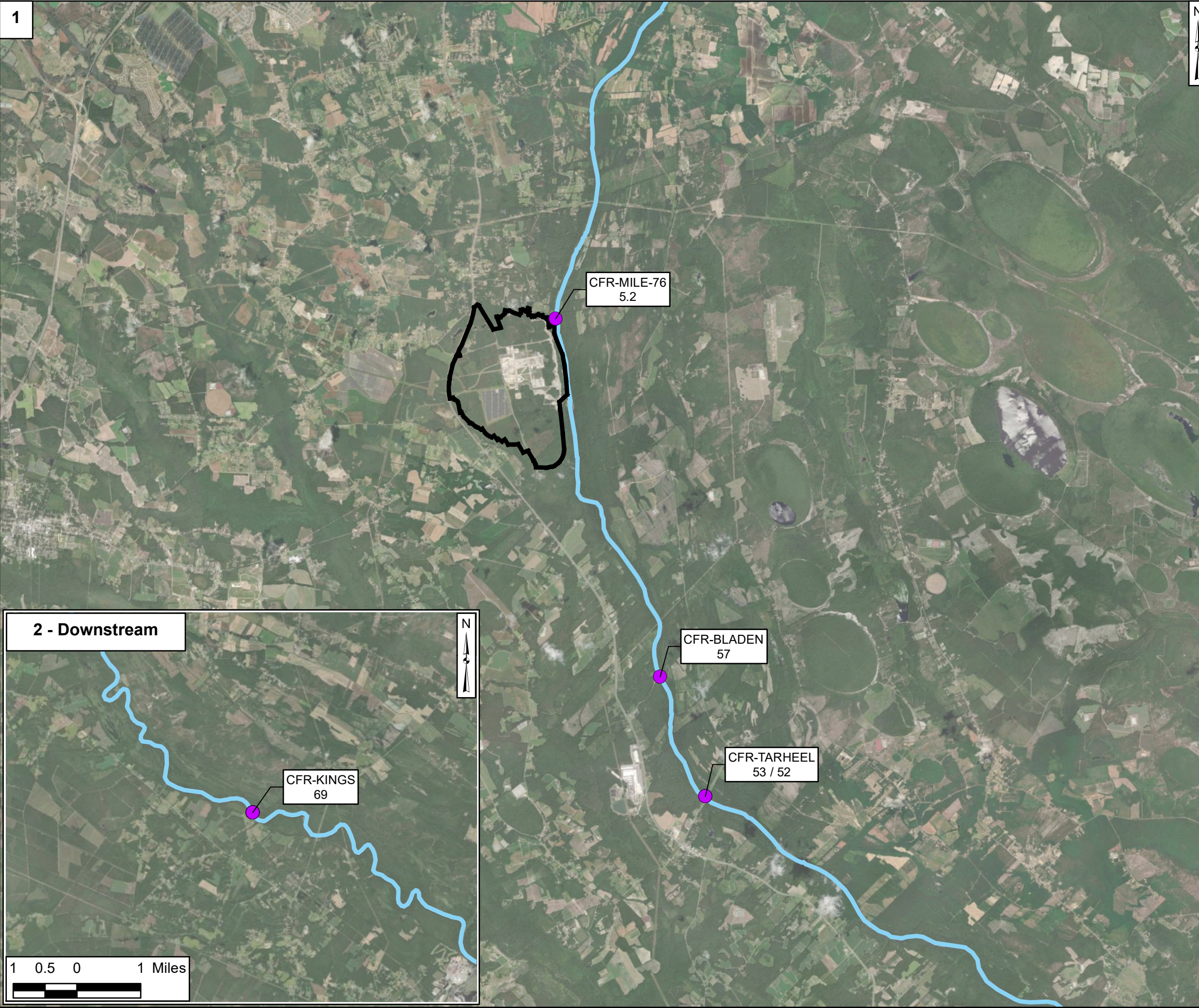
8 - Due to transient conditions as a result of the groundwater remedy installation and commissioning, gradient measurements are impacted from these activities and should be considered estimates.

9 - For October 2024, the concentrations from the stream sample collected downgradient from the Outfall 003 treatment system and effluent samples collected at the effluent basins of the Seep A, B, C and D flow-through cells were used to calculate the After Remedy mass discharge for these pathways.



Path: P:\P\Projects\TR725\GIS\Baseline Monitor\Work\Map\TR725_StreamReach.mxd - Last Reviewed: 3/27/25 - Author: kstuntz

Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet Units in Foot US



Legend

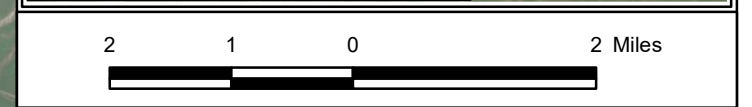
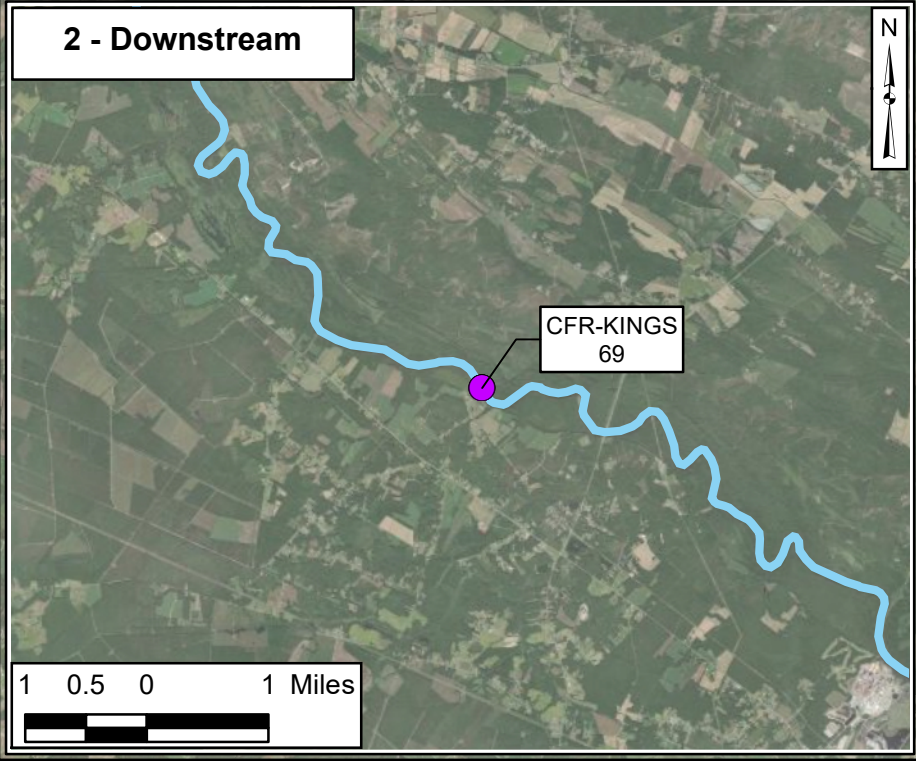
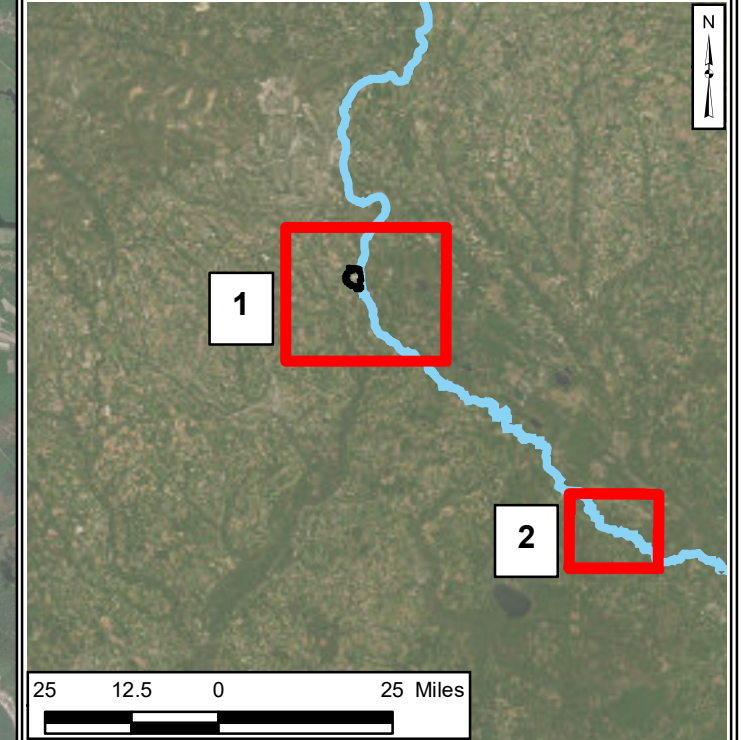
- Sample Location
- Cape Fear River
- Site Boundary

CFR-BLADEN
57

Location Name
Total Table 3+ (17 Compounds)
Concentration (ng/L)

Notes:
 ND - no Table 3+ analytes (17 compounds) were detected above the associated reporting limits

1. All results are in nanograms per liter.
2. Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, R-EVE, and PFPrA.
3. Non-detect values were not included in sum of total Table 3+ results.
4. Total Table 3+ results include J-qualified data.
5. The outline of Cape Fear River is approximate and is based on open data from ArcGIS Online and North Carolina Department of Environmental Quality Online GIS.
6. Basemap sources: Esri, Maxar, Earthstar Geographics, and the GIS User Community.



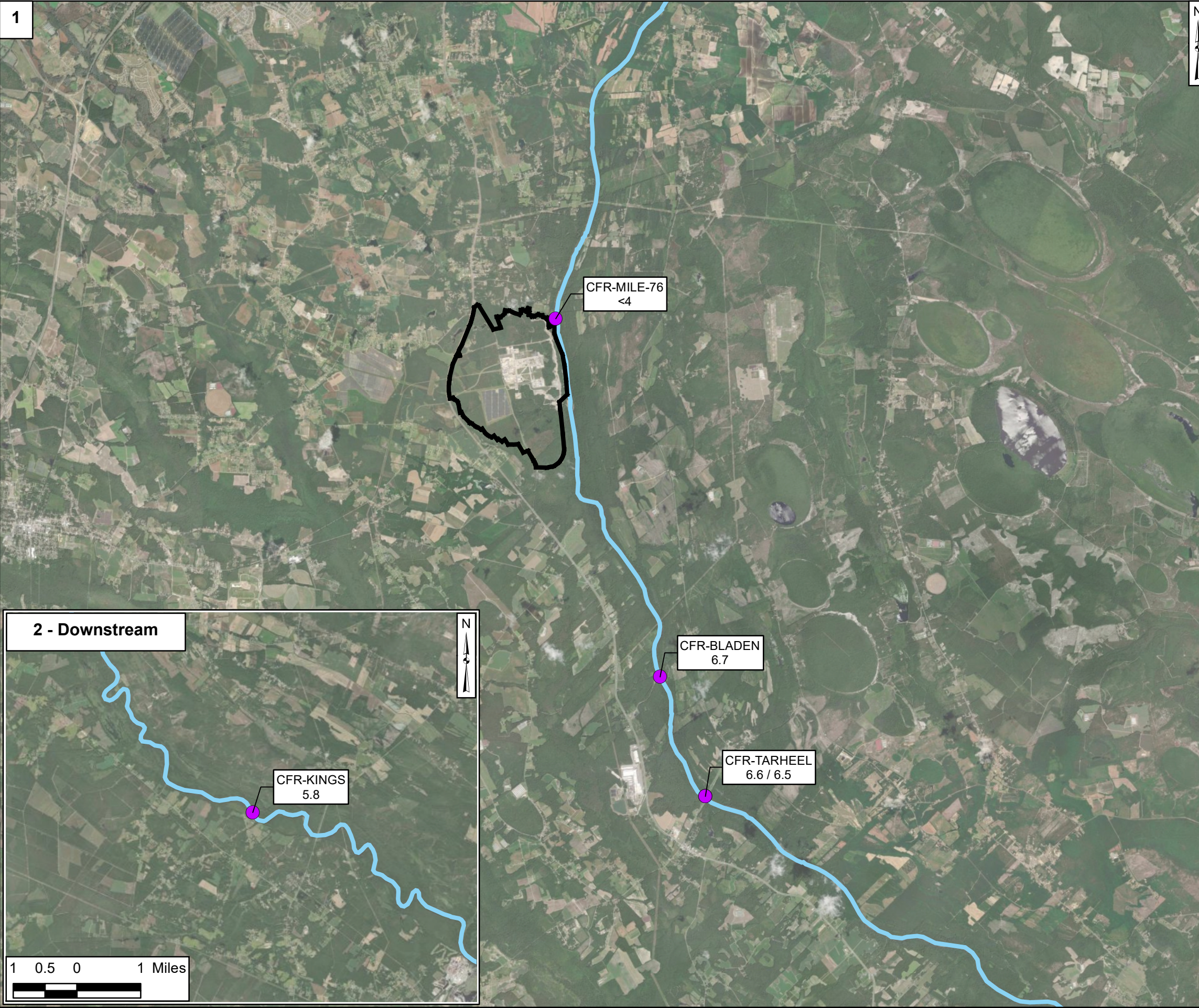
**Cape Fear River Total Table 3+ Concentrations
(17 Compounds) - October 2024**

Chemours Fayetteville Works, North Carolina

Geosyntec consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295	Figure A2
	Raleigh	

Path: P:\P\Projects\TR0725 Database and GIS\GIS\Baseline Monitor\Workplan\TR0725_RiverSamples_C25224_SW_Tot_Tab_3_17Compounds.mxd Last Revised: 3/2/2025 Author: kaatne

Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet Units in Foot US



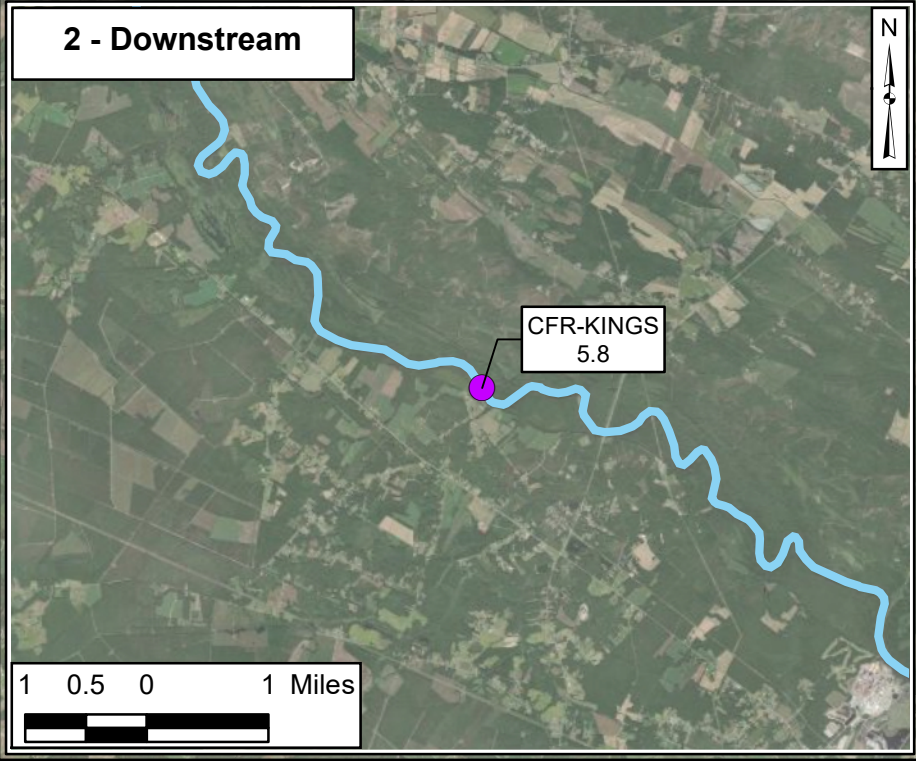
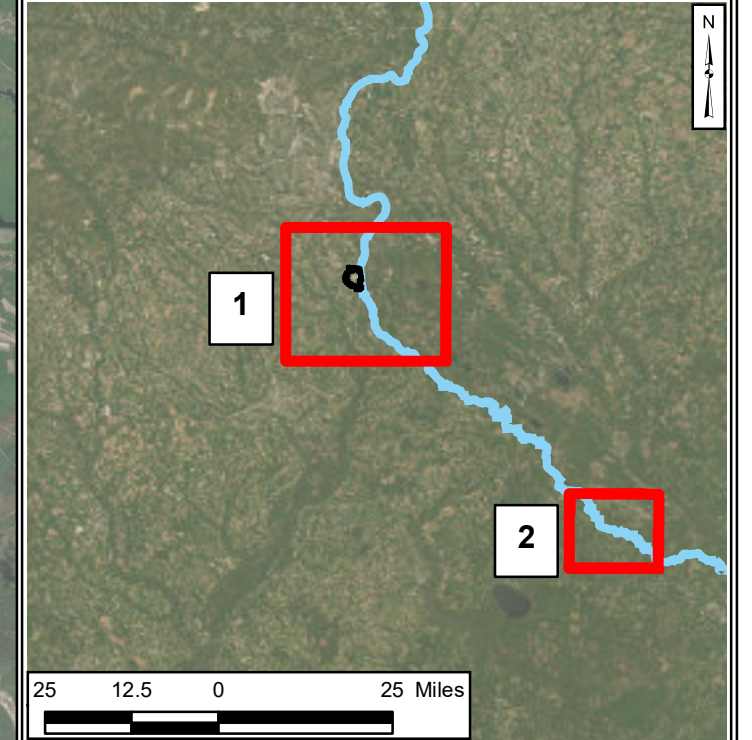
Legend

- Sample Location
- Cape Fear River
- Site Boundary

CFR-TARHEEL* 6.6 / 6.5	← Location Name
	← HFPO-DA Concentration (ng/L)

Notes:

- < - Analyte not detected above associated reporting limit.
- 1. All results are in nanograms per liter.
- 2. Basemap sources: Esri, Maxar, Earthstar Geographics, and the GIS User Community.



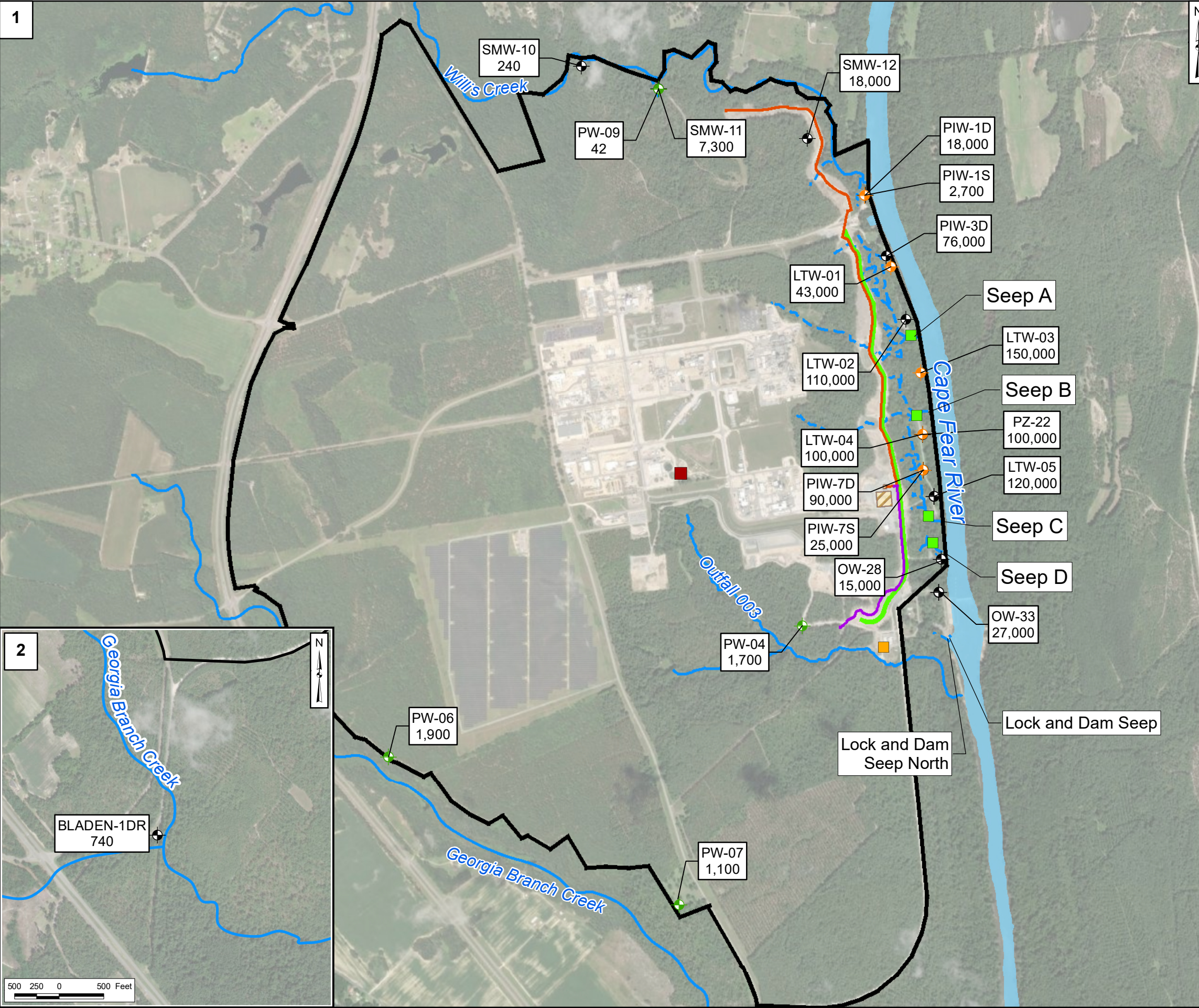
**Cape Fear River HFPO-DA Concentrations
October 2024**

Chemours Fayetteville Works, North Carolina

	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295	Figure A3
	Raleigh	

Path: P:\P\Projects\TR0725 Database and GIS\GIS Baseline Monitoring\Workshop\TR0725_RiverSamples_C22024_SV_HFPO-DA.mxd; Last Revised: 3/4/2025; Author: basanic

Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet; Units in Foot US

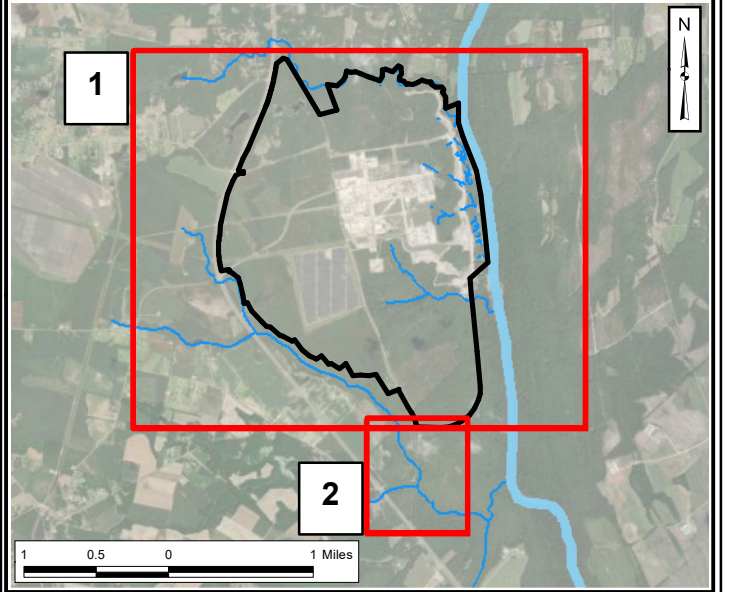


Legend

- Surficial Aquifer Monitoring Well
- Black Creek Aquifer Monitoring Well
- Floodplain Deposits Monitoring Well
- Flow-Through Cell
- Outfall 003 Treatment System
- Stormwater Treatment System
- Observed Seep
- Nearby Tributary
- Site Boundary
- North Forcemain
- South Forcemain
- Barrier Wall
- Groundwater Treatment Pad and Break Tank

PIW-1D 18,000
 ← Location Name
 ← Total Table 3+ Concentration (ng/L)

- Notes:**
- NS - not sampled
 - ND - no Table 3+ analytes (17 compounds) were detected above the associated reporting limits
 - 1. All results are in nanograms per liter.
 - 2. Total table 3+ concentration includes HFPO-DA results evaluated by EPA Method 537 Mod and does not include R-PSDA, Hydrolyzed PSDA, and R-EVE.
 - 3. Non-detect values were not included in sum of total Table 3+ results.
 - 4. Total Table 3+ results include J-qualified data.
 - 5. The outline of Cape Fear River is approximate and is based on open data from ArcGIS Online and North Carolina Department of Environmental Quality Online GIS.
 - 6. Basemap sources: Esri, Maxar, Earthstar Geographics, and the GIS User Community.

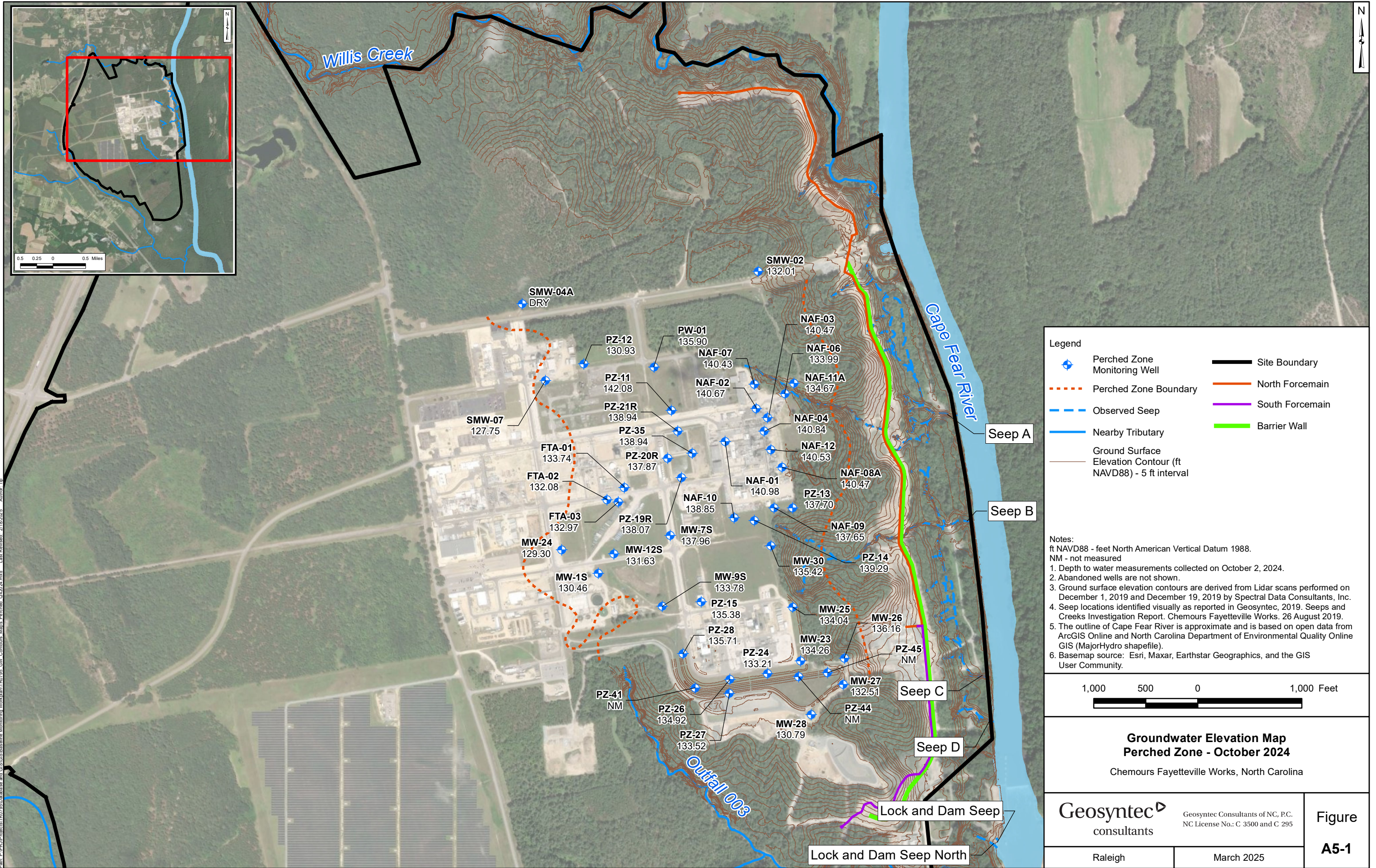


**Total Table 3+ Concentrations
(17 Compounds) in Groundwater - Q4 2024**
Chemours Fayetteville Works, North Carolina

Geosyntec consultants Raleigh	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295 March 2024	Figure A4

Path: P:\P\Projects\TR2725 Database and GIS\GIS Baseline Monitoring\Map\Map\Map_17\Components.mxd
 Last Revised: 3/4/2025
 Author: jessie

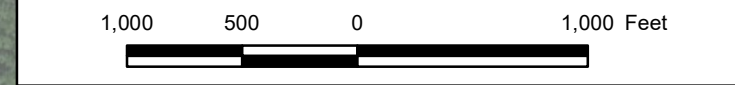
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet Units in Foot US



Legend

- ◆ Perched Zone Monitoring Well
- - - Perched Zone Boundary
- - - Observed Seep
- Nearby Tributary
- Ground Surface Elevation Contour (ft NAVD88) - 5 ft interval
- Site Boundary
- North Forcemain
- South Forcemain
- Barrier Wall

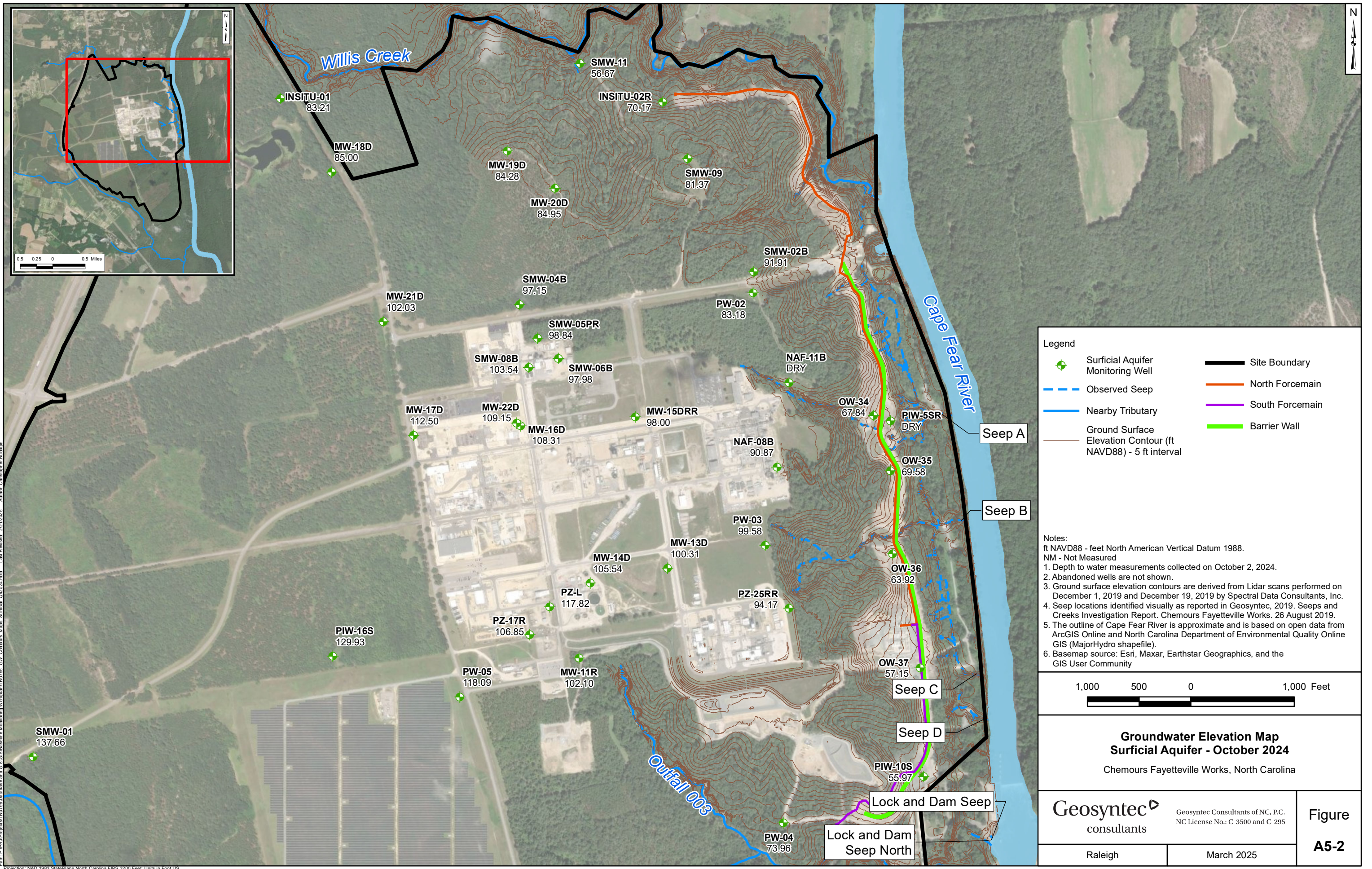
Notes:
 ft NAVD88 - feet North American Vertical Datum 1988.
 NM - not measured
 1. Depth to water measurements collected on October 2, 2024.
 2. Abandoned wells are not shown.
 3. Ground surface elevation contours are derived from Lidar scans performed on December 1, 2019 and December 19, 2019 by Spectral Data Consultants, Inc.
 4. Seep locations identified visually as reported in Geosyntec, 2019. Seeps and Creeks Investigation Report. Chemours Fayetteville Works. 26 August 2019.
 5. The outline of Cape Fear River is approximate and is based on open data from ArcGIS Online and North Carolina Department of Environmental Quality Online GIS (MajorHydro shapefile).
 6. Basemap source: Esri, Maxar, Earthstar Geographics, and the GIS User Community.



**Groundwater Elevation Map
 Perched Zone - October 2024**
 Chemours Fayetteville Works, North Carolina

Path: P:\P\Projects\170725\Baseline Monitor\Work\km170725_GW_Combine_Map_Perched_Q2024.mxd Last Revised: 2/18/2025 Author: TP

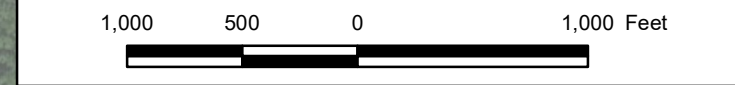
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet Units in Foot US



Legend

	Surficial Aquifer Monitoring Well		Site Boundary
	Observed Seep		North Forcemain
	Nearby Tributary		South Forcemain
	Ground Surface Elevation Contour (ft NAVD88) - 5 ft interval		Barrier Wall

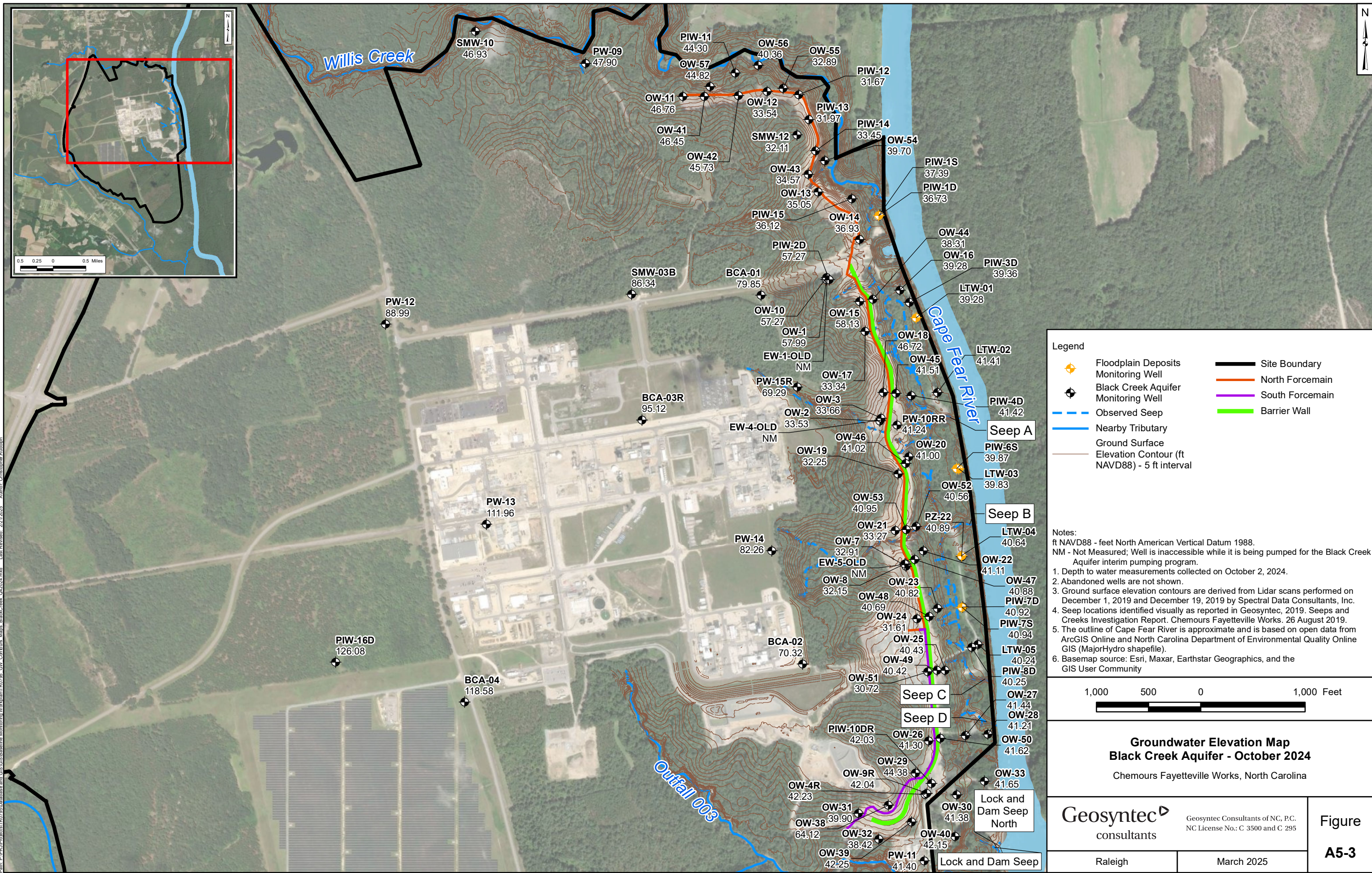
Notes:
 ft NAVD88 - feet North American Vertical Datum 1988.
 NM - Not Measured
 1. Depth to water measurements collected on October 2, 2024.
 2. Abandoned wells are not shown.
 3. Ground surface elevation contours are derived from Lidar scans performed on December 1, 2019 and December 19, 2019 by Spectral Data Consultants, Inc.
 4. Seep locations identified visually as reported in Geosyntec, 2019. Seeps and Creeks Investigation Report. Chemours Fayetteville Works. 26 August 2019.
 5. The outline of Cape Fear River is approximate and is based on open data from ArcGIS Online and North Carolina Department of Environmental Quality Online GIS (MajorHydro shapefile).
 6. Basemap source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



Groundwater Elevation Map
Surficial Aquifer - October 2024
 Chemours Fayetteville Works, North Carolina

	Geosyntec Consultants of NC, P.C. NC License No.: C. 3500 and C. 295	Figure A5-2
	Raleigh	

Path: P:\P\Projects\170725\Baseline Monitor\Work\170725_GW_Cenbun_Map_Surficial_Oct2024.mxd; Last Revised: 2/21/2025; Author: Christopher Euloph
 Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet Units in Foot US

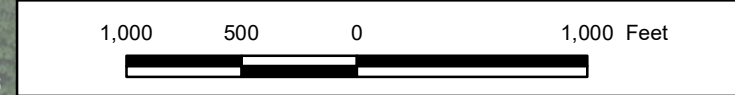


Legend

	Floodplain Deposits		Site Boundary
	Black Creek Aquifer Monitoring Well		North Forcemain
	Observed Seep		South Forcemain
	Nearby Tributary		Barrier Wall
	Ground Surface		
	Elevation Contour (ft NAVD88) - 5 ft interval		

Notes:
 ft NAVD88 - feet North American Vertical Datum 1988.
 NM - Not Measured; Well is inaccessible while it is being pumped for the Black Creek Aquifer interim pumping program.

1. Depth to water measurements collected on October 2, 2024.
2. Abandoned wells are not shown.
3. Ground surface elevation contours are derived from Lidar scans performed on December 1, 2019 and December 19, 2019 by Spectral Data Consultants, Inc.
4. Seep locations identified visually as reported in Geosyntec, 2019. Seeps and Creeks Investigation Report. Chemours Fayetteville Works. 26 August 2019.
5. The outline of Cape Fear River is approximate and is based on open data from ArcGIS Online and North Carolina Department of Environmental Quality Online GIS (MajorHydro shapefile).
6. Basemap source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



Groundwater Elevation Map
Black Creek Aquifer - October 2024
 Chemours Fayetteville Works, North Carolina

	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295	Figure A5-3
	Raleigh	

Path: P:\P\Projects\170725\Baseline Monitor\Work\170725_GW_Cenbun_Mapa_BlackCreek_C2024.mxd - Last Revised: 2/21/2025 - Author: Christopher Rudolph
 Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet Units in Foot US

Attachment ATT1

**Supplemental Tables to the Mass Loading
Model**

TABLE ATT1-1
SEEP A FLOW THROUGH CELL (FTC) DATA
Chemours Fayetteville Works, North Carolina

Geosyntec Consultants of NC, P.C.

Date/Time	Flow Rate¹ (gpm)	Bypass Spillway Flow Rate (gpm)	Bypass Spillway Volume (gal)	Flow Volume (gal)
--	--	--	--	--
Total Flow Volume (gal)				--

Notes:

gal - gallons

gpm - gallons per minute

FTC - Flow Through Cell

1 - There was insufficient flow observed in Seep A FTC Effluent Basin at the time of sampling and therefore a flow rate was not calculated.

TABLE ATT1-2
SEEP B FLOW THROUGH CELL (FTC) DATA
Chemours Fayetteville Works, North Carolina

Geosyntec Consultants of NC, P.C.

Date/Time	Flow Rate¹ (gpm)	Bypass Spillway Flow Rate (gpm)	Bypass Spillway Volume (gal)	Flow Volume (gal)
--	--	--	--	--
Total Flow Volume (gal)				--

Notes:

gal - gallons

gpm - gallons per minute

FTC - Flow Through Cell

1 - There was insufficient flow observed in Seep B FTC Effluent Basin at the time of sampling and therefore a flow rate was not calculated.

TABLE ATT1-3
SEEP C FLOW THROUGH CELL (FTC) DATA
Chemours Fayetteville Works, North Carolina

Geosyntec Consultants of NC, P.C.

Date/Time	Flow Rate ¹ (gpm)	Bypass Spillway Flow Rate (gpm)	Bypass Spillway Volume (gal)	Flow Volume (gal)
--	--	--	--	--
Total Flow Volume (gal)				--

Notes:

gal - gallons

gpm - gallons per minute

FTC - Flow Through Cell

1 - There was insufficient flow observed in Seep C FTC Effluent Basin at the time of sampling and therefore a flow rate was not calculated.

TABLE ATT1-4
SEEP D FLOW THROUGH CELL (FTC) DATA
Chemours Fayetteville Works, North Carolina

Geosyntec Consultants of NC, P.C.

Date/Time	Flow Rate¹ (gpm)	Bypass Spillway Flow Rate (gpm)	Bypass Spillway Volume (gal)	Flow Volume (gal)
--	--	--	--	--
Total Flow Volume (gal)				--

Notes:

gal - gallons

gpm - gallons per minute

FTC - Flow Through Cell

1 - There was insufficient flow observed in Seep D FTC Effluent Basin at the time of sampling and therefore a flow rate was not calculated.

TABLE ATT1-5
OUTFALL 003 STREAM VOLUMETRIC DISCHARGE CALCULATIONS
Chemours Fayetteville Works, North Carolina

Geosyntec Consultants of NC, P.C.

Measurement Point	Distance Along Measured Cross Section	Measured Water Column Depth	Calculated Creek Cell Area ²	Measured Creek Velocity	Cell Velocity	Calculated Discharge Through Creek Cell Area ¹
	(ft)	(ft)	(ft ²)	(ft/s)	(ft/s)	(ft ³ /s)
Bank	0	0.00	0.006	0.00	0.34	0.002
B	1	0.01	0.019	0.67	0.77	0.014
B	2	0.03	0.031	0.87	0.84	0.026
B	3	0.04	0.035	0.80	0.90	0.032
B	4	0.03	0.017	0.99	0.50	0.008
Bank	5	0.00		0.00		

Associated Measurement Notes

Location: Chemours Fayetteville
 Station: Outfall 003 Treatment Plant Effluent Stream
 Date: October 23, 2024

Total Volumetric Discharge	
(ft ³ /s)	0.0826
(gpm)	37.06
(L/s)	2.338

Acronyms

- - data not measured or calculated
- B - Bottom depth of water
- ft - feet
- ft² - square feet
- ft³/s - cubic feet per second
- gpm - gallons per minute
- L/s - liters per second
- M - Middle depth of water
- T - Top depth of water (i.e., 0 ft)

Notes

- 1 - Discharge is calculated as product of creek velocity measured at the mid-depth (feet per second) times the cross sectional area of each measurement cell.
- 2 - Measurement cell areas are calculated assuming a trapezoidal geometry based on distances between measurement points and the measured water column depths. A measurement cell is an areal section from the width of the river channel.

TABLE ATT1-6
WILLIS CREEK VOLUMETRIC DISCHARGE CALCULATIONS
Chemours Fayetteville Works, North Carolina

Geosyntec Consultants of NC, P.C.

Measurement Point	Distance Along Measured Cross Section	Measured Water Column Depth	Calculated Creek Cell Area ²	Measured Creek Velocity	Cell Velocity	Calculated Discharge Through Creek Cell Area ¹
	(ft)	(ft)	(ft ²)	(ft/s)	(ft/s)	(ft ³ /s)
Bank	0	0.00	1.00	0.00	0.18	0.18
B	2	1.00	2.00	0.30	0.35	0.70
T	2	0.00		0.40		
B	4	1.00	2.00	1.06	0.60	1.20
M	4	0.50		0.35		
T	4	0.00		1.05		
B	6	1.00	2.00	0.41	0.73	1.46
M	6	0.50		0.85		
T	6	0.00		0.75		
B	8	1.00	1.50	1.29	0.54	0.81
M	8	0.50		0.61		
T	8	0.00		0.69		
B	10	0.50	1.00	0.54	0.45	0.45
T	10	0.00		0.39		
B	12	0.50	1.00	0.70	0.48	0.48
T	12	0.00		0.15		
B	14	0.50	1.00	0.58	0.43	0.43
T	14	0.00		0.48		
B	16	0.50	0.67	0.15	0.36	0.24
T	16	0.00		0.50		
B	18	0.17	0.17	0.40	0.50	0.08
B	20	0.00	0.00	0.60	0.30	0.00
Bank	22	0.00		0.00		
<i>Associated Measurement Notes</i>			Total Volumetric Discharge			
Location: Chemours Fayetteville			(ft ³ /s)		6.0	
Station: Willis Creek 06 (SW-WC-06)			(gpm)		2,700	
Date: October 23, 2024			(L/s)		170	

Acronyms

- data not measured or calculated
- B - Bottom depth of water
- ft - feet
- ft² - square feet
- ft³/s - cubic feet per second
- gpm - gallons per minute
- L/s - liters per second
- M - Middle depth of water
- T - Top depth of water (i.e., 0 ft)

Notes

- 1 - Discharge is calculated as product of creek velocity measured at the mid-depth (feet per second) times the cross sectional area of each measurement cell.
- 2 - Measurement cell areas are calculated assuming a trapezoidal geometry based on distances between measurement points and the measured water column depths. A measurement cell is an areal section from the width of the river channel.

TABLE ATT1-7
GEORGIA BRANCH CREEK VOLUMETRIC DISCHARGE CALCULATIONS
Chemours Fayetteville Works, North Carolina

Geosyntec Consultants of NC, P.C.

Location	Distance Along Measured Cross Section	Measured Water Column Depth	Calculated Creek Cell Area ²	Measured Creek Velocity	Cell Velocity	Calculated Discharge Through Creek Cell Area ¹
	(ft)	(ft)	(ft ²)	(ft/s)	(ft/s)	(ft ³ /s)
Downstream Bank	0	0.00	0.00	0.00	0.10	0.00
B	0.4	0.00	0.15	0.20	0.26	0.04
T	1	0.00		0.48		
B	1	0.50	0.55	0.17	0.58	
T	2	0.00		1.08		0.00
B	2	0.60	1.30	0.60	0.85	
T	3	0.00		1.25		
B	3	2.00	1.34	0.48	1.28	1.72
T	4	0.00		1.80		
B	4	0.68	0.73	1.60	1.49	
T	5	0.00		1.69		0.00
B	5	0.78	0.82	0.85	1.01	
T	6	0.00		1.08		
B	6	0.85	0.58	0.43	0.58	0.34
T	6.8	0.00		0.48		
B	6.8	0.60	0.03	0.33	0.20	0.01
Upstream Bank	6.9	0.00		0.00		
Total Volumetric Discharge						
						2.1
						943
						59

Associated Measurement Notes

Location: Chemours Fayetteville
Station: Georgia Branch 05 (SW-GB-01)
Date: October 23, 2024

Acronyms

-- data not measured or calculated
B - Bottom depth of water
ft - feet
ft² - square feet
ft³/s - cubic feet per second
gpm - gallons per minute
L/s - liters per second
M - Middle depth of water
T - Top depth of water (i.e., 0 ft)

Notes

1 - Discharge is calculated as product of creek velocity measured at the middle-depth (feet per second) times the cross sectional area of each measurement cell.
2 - Measurement cell areas are calculated assuming a trapezoidal geometry based on distances between measurement points and the measured water column depths. A measurement cell is an areal section from the width of the river channel.

**TABLE ATT1-8
 OUTFALL 002 FLOW RATE
 Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

Q4 2024 Quarterly Event	Date	Outfall 002 Flow (MGD)	Total Daily Volume (gal)	Hours of Sample Collection	Approximate Total Volume during 24 hour Sample Collection (gal)
October 2024 ¹	10/23/2024	18.88	18,880,000	12.8	10,030,000
	10/24/2024	14.00	14,002,000	10.3	5,980,021
	10/23/2024 11:15:00 AM to 10/24/2024 10:15:00 AM			23.0	16,010,021

Notes:

Daily flow rates collected from facility Discharge Monitoring Reports.

1 - Total flow volume for 24-hour temporal composite sample collected at 10:15 AM on 10/24/24 approximated based on flow rates for 10/23/2024 and 10/24/2024.

Acronyms:

gal - gallons

MGD - millions of gallons per day

TABLE ATT1-9
FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC
Chemours Fayetteville Works, North Carolina

Q4 2024 Quarterly Event	Pathway/ Location	Sample Collection Timepoint	Flow Gauging Location¹	Grab Sample Instantaneous Flow Rate (ft³/s)²
October 2024	Upstream River Water and Groundwater	10/23/24 9:50	William O Huske Lock and Dam	1,271

Notes:

- 1 - Flow rate measured at USGS gauging station #02105500 located at William O Huske Lock & Dam, North Carolina.
- 2 - Instantaneous flow rate for grab samples is the recorded flow rate at the time of grab sample collection.

Acronyms:

- ft³/s - cubic feet per second
- hr - hours
- MGD - millions of gallons per day

TABLE ATT1-10
CHEMOURS FACILITY INTAKE FLOW RATE
Chemours Fayetteville Works, North Carolina

Q4 2024 Quarterly Event	Date	Intake Flow River Water Total Daily Flow Average (gpm)	Total Daily Volume (gal)	Hours of Sample Collection	Approximate Total Volume during 24 hour Sample Collection (gal)
October 2024 ¹	10/23/2024	2,741	3,946,455	15.9	2,614,526
	10/24/2024	6,502	9,362,360	7.10	2,769,698
	10/23/2024 8:06:00 AM to 10/24/2024 7:06:00 AM			23.0	5,384,225

Notes:

Daily flow rates collected from facility Discharge Monitoring Reports.

1 - Total flow volume for 24-hour temporal composite sample collected at 7:06 am on 10/24/2024 approximated based on flow rates for 10/23/2024 and 10/24/2024.

Acronyms:

gal - gallons

gpm - gallons per minute

**TABLE ATT1-11
SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	CFR-BLADEN	CFR-KINGS	CFR-MILE-76	CFR-TARHEEL	CFR-TARHEEL	GBC-1	LOCK-DAM NORTH
Field Sample ID	CAP4Q24-CFR-BLADEN-102424	CAP4Q24-CFR-KINGS-102424	CAP4Q24-CFR-RM-76-102324	CAP4Q24-CFR-TARHEEL-102424	CAP4Q24-CFR-TARHEEL-24-102424	CAP4Q24-GBC-1-102324	CAP4Q24-LOCK-DAM-NORTH-102324
Sample Date	10/24/2024	10/24/2024	10/23/2024	10/24/2024	10/24/2024	10/23/2024	10/23/2024
QA/QC							
Sample Delivery Group (SDG)	320-116530-1	320-116530-1	320-116530-1	320-116530-1	320-116573-1	320-116530-1	320-116530-1
Lab Sample ID	320-116530-5	320-116530-7	320-116530-2	320-116530-6	320-116573-1	320-116530-3	320-116530-1
537 Mod (ng/L)							
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<84
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<40
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<58
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<30
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<110
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<180
6:2 Fluorotelomer sulfonate	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<310
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<30
DONA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<50
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<160
N-ethylperfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<110
N-methyl perfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<54
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<150
Perfluorobutane Sulfonic Acid	4.0	3.7	4.3	4.1	4.5	3.1	<25
Perfluorobutanoic Acid	<5.0	5.2	<5.0	<5.0	<5.0	9.5	<300
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<40
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<39
Perfluorododecane Sulfonic Acid (PFDoS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<120
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<69
Perfluoroheptane Sulfonic Acid (PFHpS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<24
Perfluoroheptanoic Acid	2.6	2.5	2.7	2.5	2.8	<2.0	<31
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<110
Perfluorohexane Sulfonic Acid	5.5	4.8	5.5	5.5	5.4	<2.0	<71
Perfluorohexanoic Acid	4.9	4.3	4.8	4.7	6.0	2.2	<73
Perfluorononanesulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<46
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<34
Perfluorooctadecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<120
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<120
Perfluoropentane Sulfonic Acid (PFPeS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<38
Perfluoropentanoic Acid	4.9	4.0	4.1	4.7	5.9	5.8	110
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<91
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<160
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<140
PFOA	6.9	6.4	6.7	6.7	6.3	3.5	<110
PFOS	12	11	12	11	12	<2.0	<68

**TABLE ATT1-11
SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	LOCK-DAM SEEP	OLDOF-2	OUTFALL 002	RIVER WATER INTAKE 2	WC-1	WC-1
Field Sample ID	CAP4Q24-LOCK-DAM-SEEP-102324	CAP4Q24-OLDOF-1-24-102424	CAP4Q24-OUTFALL-002-24-102424	RIVER-WATER-INTAKE-24-102424	CAP4Q24-WC-1-24-102424	CAP4Q24-WC-1-24-102424-D
Sample Date	10/23/2024	10/24/2024	10/24/2024	10/24/2024	10/24/2024	10/24/2024
QA/QC						Field Duplicate
Sample Delivery Group (SDG)	320-116513-1	320-116525-1	320-116525-1	320-116530-1	320-116513-1	320-116513-1
Lab Sample ID	320-116513-4	320-116525-4	320-116525-3	320-116530-4	320-116513-2	320-116513-3
537 Mod (ng/L)						
10:2 Fluorotelomer sulfonate	<84	<2.0	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<40	<2.0	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<58	<2.0	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<30	<2.0	<2.0	<2.0	<2.0	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<110	<2.0	<2.0	<2.0	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<180	<4.0	<4.0	<4.0	<4.0	<4.0
6:2 Fluorotelomer sulfonate	<310	<5.0	<5.0	<5.0	<5.0	<5.0
9Cl-PF3ONS	<30	<2.0	<2.0	<2.0	<2.0	<2.0
DONA	<50	<2.0	<2.0	<2.0	<2.0	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<160	<5.0	<5.0	<5.0	<5.0	<5.0
N-ethylperfluoro-1-octanesulfonamide	<110	<2.0	<2.0	<2.0	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<54	<2.0	<2.0	<2.0	<2.0	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<150	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorobutane Sulfonic Acid	<25	<2.0	4.5	4.8	8.3	9.8
Perfluorobutanoic Acid	<300	<5.0	6.1	14	8.0	7.5
Perfluorodecane Sulfonic Acid	<40	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorodecanoic Acid	<39	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<120	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<69	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<24	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	55	2.1	2.9	2.7	<2.0	2.2
Perfluorohexadecanoic Acid (PFHxDA)	<110	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<71	<2.0	5.2	4.9	<2.0	<2.0
Perfluorohexanoic Acid	<73	<2.0	5.1	4.5	4.4	4.2
Perfluorononanesulfonic Acid	<46	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<34	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<120	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<120	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<38	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	260	8.4	6.0	4.5	7.7	9.3
Perfluorotetradecanoic Acid	<91	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<160	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<140	<2.0	<2.0	<2.0	<2.0	<2.0
PFOA	<110	3.1	7.5	6.8	7.0	6.7
PFOS	<68	<2.0	11	7.6	<2.0	<2.0

**TABLE ATT1-11
SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	EB	EB
Field Sample ID	CAP4Q24-EQBLK-IS-102424	CAP4Q24-EQBLK-PP-SW-102424
Sample Date	10/24/2024	10/24/2024
QA/QC	Equipment Blank	Equipment Blank
Sample Delivery Group (SDG)	320-116525-1	320-116525-1
Lab Sample ID	320-116525-1	320-116525-2
537 Mod (ng/L)		
10:2 Fluorotelomer sulfonate	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.0	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4.0	<4.0
6:2 Fluorotelomer sulfonate	<5.0	<5.0
9Cl-PF3ONS	<2.0	<2.0
DONA	<2.0	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0
N-ethylperfluoro-1-octanesulfonamide	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<2.0	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0
Perfluorobutane Sulfonic Acid	<2.0	<2.0
Perfluorobutanoic Acid	<5.0	<5.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0
Perfluorodecanoic Acid	<2.0	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<2.0	<2.0
Perfluoroheptanoic Acid	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0
Perfluorohexanoic Acid	<2.0	<2.0
Perfluorononanesulfonic Acid	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<2.0	<2.0
Perfluoropentanoic Acid	<2.0	<2.0
Perfluorotetradecanoic Acid	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0
PFOA	<2.0	<2.0
PFOS	<2.0	<2.0

Notes:

- Bold** - Analyte detected above associated reporting limit
- J** - Analyte detected. Reported value may not be accurate or precise.
- B** - Analyte detected in an associated blank
- ng/L** - nanograms per liter
- QA/QC** - Quality assurance/ quality control
- <** - Analyte not detected above associated reporting limit.
- - Not measured / Not Applicable
- QA/QC** - Quality assurance/ quality control
- <** - Analyte not detected above associated reporting limit.
- - Not measured / Not Applicable

**TABLE ATT1-12
GROUNDWATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit ¹	Black Creek Aquifer	Floodplain Deposits	Black Creek Aquifer	Floodplain Deposits
Location ID	BLADEN-IDR	LTW-01	LTW-02	LTW-03
Field Sample ID	CAP4Q24-BLADEN-IDR-100924	CAP4Q24-LTW-01-101024	CAP4Q24-LTW-02-100824	CAP4Q24-LTW-03-101024
Sample Date	10/9/2024	10/10/2024	10/8/2024	10/10/2024
QA/QC				
Sample Delivery Group (SDG)	320-116122-1	320-116122-1	320-116097-1	320-116122-1
Lab Sample ID	320-116122-4	320-116122-1	320-116097-8	320-116122-2
537 Mod (ng/L)				
10:2 Fluorotelomer sulfonate	<2.0 UJ	<84	<84	<84
11Cl-PF3OUdS	<2.0 UJ	<40	<40	<40
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2.0 UJ	<58	<58	<58
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.0 UJ	<30	<30	<30
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0 UJ	<110	<110	<110
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4.0 UJ	<180	<180	<180
6:2 Fluorotelomer sulfonate	<5.0 UJ	<310	<310	<310
9Cl-PF3ONS	<2.0 UJ	<30	<30	<30
DONA	<2.0 UJ	<50	<50	<50
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<5.0 UJ	<160	<160	<160
N-ethylperfluoro-1-octanesulfonamide	<2.0 UJ	<110	<110	<110
N-methyl perfluoro-1-octanesulfonamide	<2.0 UJ	<54	<54	<54
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0 UJ	<150	<150	<150
Perfluorobutane Sulfonic Acid	<2.0 UJ	<25	<25	<25
Perfluorobutanoic Acid	<5.0 UJ	<300	<300	<300
Perfluorodecane Sulfonic Acid	<2.0 UJ	<40	<40	<40
Perfluorodecanoic Acid	<2.0 UJ	<39	<39	<39
Perfluorododecane Sulfonic Acid (PFDoS)	<2.0 UJ	<120	<120	<120
Perfluorododecanoic Acid	<2.0 UJ	<69	<69	<69
Perfluoroheptane Sulfonic Acid (PFHpS)	<2.0 UJ	<24	<24	<24
Perfluoroheptanoic Acid	<2.0 UJ	34	<31	<31
Perfluorohexadecanoic Acid (PFHxDA)	<2.0 UJ	<110	<110	<110
Perfluorohexane Sulfonic Acid	<2.0 UJ	<71	<71	<71
Perfluorohexanoic Acid	<2.0 UJ	<73	<73	<73
Perfluorononanesulfonic Acid	<2.0 UJ	<46	<46	<46
Perfluorononanoic Acid	<2.0 UJ	<34	<34	<34
Perfluorooctadecanoic Acid	<2.0 UJ	<120	<120	<120
Perfluorooctane Sulfonamide	<2.0 UJ	<120	<120	<120
Perfluoropentane Sulfonic Acid (PFPeS)	<2.0 UJ	<38	<38	<38
Perfluoropentanoic Acid	3.5 J	150	380	490
Perfluorotetradecanoic Acid	<2.0 UJ	<91	<91	<91
Perfluorotridecanoic Acid	<2.0 UJ	<160	<160	<160
Perfluoroundecanoic Acid	<2.0 UJ	<140	<140	<140
PFOA	<2.0 UJ	<110	<110	<110
PFOS	<2.0 UJ	<68	<68	<68

**TABLE ATT1-12
GROUNDWATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit ¹	Floodplain Deposits	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	LTW-04	LTW-05	LTW-05	OW-28
Field Sample ID	CAP4Q24-LTW-04-100924	CAP4Q24-LTW-05-100924	CAP4Q24-LTW-05-100924-D	CAP4Q24-OW-28-100824
Sample Date	10/9/2024	10/9/2024	10/9/2024	10/8/2024
QA/QC			Field Duplicate	
Sample Delivery Group (SDG)	320-116122-1	320-116140-1	320-116140-1	320-116104-1
Lab Sample ID	320-116122-3	320-116140-1	320-116140-2	320-116104-3
537 Mod (ng/L)				
10:2 Fluorotelomer sulfonate	<84	<84	<84	<84
11Cl-PF3OUdS	<40	<40	<40	<40
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<58	<58	<58	<58
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<30	<30	<30	<30
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<110
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<180	<180	<180	<180
6:2 Fluorotelomer sulfonate	<310	<310	<310	<310
9Cl-PF3ONS	<30	<30	<30	<30
DONA	<50	<50	<50	<50
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<160	<160	<160	<160
N-ethylperfluoro-1-octanesulfonamide	<110	<110	<110	<110
N-methyl perfluoro-1-octanesulfonamide	<54	<54	<54	<54
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<150	<150	<150	<150
Perfluorobutane Sulfonic Acid	<25	<25	<25	<25
Perfluorobutanoic Acid	<300	<300	<300	<300
Perfluorodecane Sulfonic Acid	<40	<40	<40	<40
Perfluorodecanoic Acid	<39	<39	<39	<39
Perfluorododecane Sulfonic Acid (PFDoS)	<120	<120	<120	<120
Perfluorododecanoic Acid	<69	<69	<69	<69
Perfluoroheptane Sulfonic Acid (PFHpS)	<24	<24	<24	<24
Perfluoroheptanoic Acid	42	140 J	91 J	<31
Perfluorohexadecanoic Acid (PFHxDA)	<110	<110	<110	<110
Perfluorohexane Sulfonic Acid	<71	<71	<71	<71
Perfluorohexanoic Acid	<73	<73	<73	<73
Perfluorononanesulfonic Acid	<46	<46	<46	<46
Perfluorononanoic Acid	<34	<34	<34	<34
Perfluorooctadecanoic Acid	<120	<120	<120	<120
Perfluorooctane Sulfonamide	<120	<120	<120	<120
Perfluoropentane Sulfonic Acid (PFPeS)	<38	<38	<38	<38
Perfluoropentanoic Acid	1,100	1,200 J	820 J	<61
Perfluorotetradecanoic Acid	<91	<91	<91	<91
Perfluorotridecanoic Acid	<160	<160	<160	<160
Perfluoroundecanoic Acid	<140	<140	<140	<140
PFOA	<110	<110	<110	<110
PFOS	<68	<68	<68	<68

TABLE ATT1-12
GROUNDWATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Water Bearing Unit ¹	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Floodplain Deposits
Location ID	OW-33	OW-33	PIW-1D	PIW-1S
Field Sample ID	CAP4Q24-OW-33-100824	CAP4Q24-OW-33-100824-D	CAP4Q24-PIW-1D-100824	CAP4Q24-PIW-1S-100824
Sample Date	10/8/2024	10/8/2024	10/8/2024	10/8/2024
QA/QC		Field Duplicate		
Sample Delivery Group (SDG)	320-116104-1	320-116104-1	320-116104-1	320-116104-1
Lab Sample ID	320-116104-1	320-116104-2	320-116104-4	320-116104-5
537 Mod (ng/L)				
10:2 Fluorotelomer sulfonate	<84	<84	<84	<84
11Cl-PF3OUdS	<40	<40	<40	<40
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<58	<58	<58	<58
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<30	<30	<30	<30
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<110
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<180	<180	<180	<180
6:2 Fluorotelomer sulfonate	<310	<310	<310	<310
9Cl-PF3ONS	<30	<30	<30	<30
DONA	<50	<50	<50	<50
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<160	<160	<160	<160
N-ethylperfluoro-1-octanesulfonamide	<110	<110	<110	<110
N-methyl perfluoro-1-octanesulfonamide	<54	<54	<54	<54
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<150	<150	<150	<150
Perfluorobutane Sulfonic Acid	<25	<25	<25	<25
Perfluorobutanoic Acid	<300	<300	<300	<300
Perfluorodecane Sulfonic Acid	<40	<40	<40	<40
Perfluorodecanoic Acid	<39	<39	<39	<39
Perfluorododecane Sulfonic Acid (PFDoS)	<120	<120	<120	<120
Perfluorododecanoic Acid	<69	<69	<69	<69
Perfluoroheptane Sulfonic Acid (PFHpS)	<24	<24	<24	<24
Perfluoroheptanoic Acid	<31	<31	<31	<31
Perfluorohexadecanoic Acid (PFHxDA)	<110	<110	<110	<110
Perfluorohexane Sulfonic Acid	<71	<71	<71	<71
Perfluorohexanoic Acid	<73	<73	<73	<73
Perfluorononanesulfonic Acid	<46	<46	<46	<46
Perfluorononanoic Acid	<34	<34	<34	<34
Perfluorooctadecanoic Acid	<120	<120	<120	<120
Perfluorooctane Sulfonamide	<120	<120	<120	<120
Perfluoropentane Sulfonic Acid (PFPeS)	<38	<38	<38	<38
Perfluoropentanoic Acid	130	100	<61	<61
Perfluorotetradecanoic Acid	<91	<91	<91	<91
Perfluorotridecanoic Acid	<160	<160	<160	<160
Perfluoroundecanoic Acid	<140	<140	<140	<140
PFOA	<110	<110	<110	<110
PFOS	<68	<68	<68	<68

TABLE ATT1-12
GROUNDWATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Water Bearing Unit ¹	Black Creek Aquifer	Black Creek Aquifer	Floodplain Deposits	Surficial Aquifer
Location ID	PIW-3D	PIW-7D	PIW-7S	PW-04
Field Sample ID	CAP4Q24-PIW-3D-100824	CAP4Q24-PIW-7D-101024	CAP4Q24-PIW-7S-100924	CAP4Q24-PW-04-100724
Sample Date	10/8/2024	10/10/2024	10/9/2024	10/7/2024
QA/QC				
Sample Delivery Group (SDG)	320-116104-1	320-116140-1	320-116140-1	320-116097-1
Lab Sample ID	320-116104-6	320-116140-5	320-116140-4	320-116097-7
537 Mod (ng/L)				
10:2 Fluorotelomer sulfonate	<84	<84	<84	<84
11Cl-PF3OUdS	<40	<40	<40	<40
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<58	<58	<58	<58
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<30	<30	<30	<30
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<110
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<180	<180	<180	<180
6:2 Fluorotelomer sulfonate	<310	<310	<310	<310
9Cl-PF3ONS	<30	<30	<30	<30
DONA	<50	<50	<50	<50
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<160	<160	<160	<160
N-ethylperfluoro-1-octanesulfonamide	<110	<110	<110	<110
N-methyl perfluoro-1-octanesulfonamide	<54	<54	<54	<54
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<150	<150	<150	<150
Perfluorobutane Sulfonic Acid	<25	<25	<25	<25
Perfluorobutanoic Acid	<300	<300	<300	<300
Perfluorodecane Sulfonic Acid	<40	<40	<40	<40
Perfluorodecanoic Acid	<39	<39	<39	<39
Perfluorododecane Sulfonic Acid (PFDoS)	<120	<120	<120	<120
Perfluorododecanoic Acid	<69	<69	<69	<69
Perfluoroheptane Sulfonic Acid (PFHpS)	<24	<24	<24	<24
Perfluoroheptanoic Acid	<31	35	<31	<31
Perfluorohexadecanoic Acid (PFHxDA)	<110	<110	<110	<110
Perfluorohexane Sulfonic Acid	<71	<71	<71	<71
Perfluorohexanoic Acid	<73	<73	<73	<73
Perfluorononanesulfonic Acid	<46	<46	<46	<46
Perfluorononanoic Acid	<34	<34	<34	<34
Perfluorooctadecanoic Acid	<120	<120	<120	<120
Perfluorooctane Sulfonamide	<120	<120	<120	<120
Perfluoropentane Sulfonic Acid (PFPeS)	<38	<38	<38	<38
Perfluoropentanoic Acid	210	720	250	<61
Perfluorotetradecanoic Acid	<91	<91	<91	<91
Perfluorotridecanoic Acid	<160	<160	<160	<160
Perfluoroundecanoic Acid	<140	<140	<140	<140
PFOA	<110	<110	<110	<110
PFOS	<68	<68	<68	<68

**TABLE ATT1-12
GROUNDWATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit ¹	Surficial Aquifer	Surficial Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	PW-06	PW-07	PW-09	PZ-22
Field Sample ID	CAP4Q24-PW-06-100924	CAP4Q24-PW-07-100724	CAP4Q24-PW-09-100724	CAP4Q24-PZ-22-100924
Sample Date	10/9/2024	10/7/2024	10/7/2024	10/9/2024
QA/QC				
Sample Delivery Group (SDG)	320-116122-1	320-116097-1	320-116097-1	320-116140-1
Lab Sample ID	320-116122-6	320-116097-6	320-116097-4	320-116140-3
537 Mod (ng/L)				
10:2 Fluorotelomer sulfonate	<84	<2.0	<2.0	<84
11Cl-PF3OUdS	<40	<2.0	<2.0	<40
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<58	<2.0	<2.0	<58
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<30	<2.0	<2.0	<30
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<110	<2.0	<2.0	<110
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<180	<4.0	<4.0	<180
6:2 Fluorotelomer sulfonate	<310	<5.0	<5.0	<310
9Cl-PF3ONS	<30	<2.0	<2.0	<30
DONA	<50	<2.0	<2.0	<50
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<160	<5.0	<5.0	<160
N-ethylperfluoro-1-octanesulfonamide	<110	<2.0	<2.0	<110
N-methyl perfluoro-1-octanesulfonamide	<54	<2.0	<2.0	<54
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<150	<5.0	<5.0	<150
Perfluorobutane Sulfonic Acid	<25	<2.0	<2.0	<25
Perfluorobutanoic Acid	<300	9.1	<5.0	<300
Perfluorodecane Sulfonic Acid	<40	<2.0	<2.0	<40
Perfluorodecanoic Acid	<39	<2.0	<2.0	<39
Perfluorododecane Sulfonic Acid (PFDoS)	<120	<2.0	<2.0	<120
Perfluorododecanoic Acid	<69	<2.0	<2.0	<69
Perfluoroheptane Sulfonic Acid (PFHpS)	<24	<2.0	<2.0	<24
Perfluoroheptanoic Acid	<31	2.8	<2.0	<31
Perfluorohexadecanoic Acid (PFHxDA)	<110	<2.0	<2.0	<110
Perfluorohexane Sulfonic Acid	<71	<2.0	<2.0	<71
Perfluorohexanoic Acid	<73	<2.0	<2.0	<73
Perfluorononanesulfonic Acid	<46	<2.0	<2.0	<46
Perfluorononanoic Acid	<34	<2.0	<2.0	<34
Perfluorooctadecanoic Acid	<120	<2.0	<2.0	<120
Perfluorooctane Sulfonamide	<120	<2.0	<2.0	<120
Perfluoropentane Sulfonic Acid (PFPeS)	<38	<2.0	<2.0	<38
Perfluoropentanoic Acid	<61	7.2	<2.0	520
Perfluorotetradecanoic Acid	<91	<2.0	<2.0	<91
Perfluorotridecanoic Acid	<160	<2.0	<2.0	<160
Perfluoroundecanoic Acid	<140	<2.0	<2.0	<140
PFOA	<110	4.7	<2.0	<110
PFOS	<68	<2.0	<2.0	<68

TABLE ATT1-12
GROUNDWATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Water Bearing Unit ¹	Black Creek Aquifer	Surficial Aquifer	Black Creek Aquifer	--
Location ID	SMW-10	SMW-11	SMW-12	EB
Field Sample ID	CAP4Q24-SMW-10-100724	CAP4Q24-SMW-11-101124	CAP4Q24-SMW-12-101024	CAP4Q24-EQBLK-BP-100924
Sample Date	10/7/2024	10/11/2024	10/10/2024	10/9/2024
QA/QC				Equipment Blank
Sample Delivery Group (SDG)	320-116097-1	320-116167-1	320-116122-1	320-116097-1
Lab Sample ID	320-116097-5	320-116167-1	320-116122-5	320-116097-3
537 Mod (ng/L)				
10:2 Fluorotelomer sulfonate	<2.0	<84	<84	<2.0
11Cl-PF3OUdS	<2.0	<40	<40	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2.0	<58	<58	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.0	<30	<30	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<110	<110	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4.0	<180	<180	<4.0
6:2 Fluorotelomer sulfonate	<5.0	<310	<310	<5.0
9Cl-PF3ONS	<2.0	<30	<30	<2.0
DONA	<2.0	<50	<50	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<160	<160	<5.0
N-ethylperfluoro-1-octanesulfonamide	<2.0	<110	<110	<2.0
N-methyl perfluoro-1-octanesulfonamide	<2.0	<54	<54	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<150	<150	<5.0
Perfluorobutane Sulfonic Acid	<2.0	<25	<25	<2.0
Perfluorobutanoic Acid	<5.0	<300	<300	<5.0
Perfluorodecane Sulfonic Acid	<2.0	<40	<40	<2.0
Perfluorodecanoic Acid	<2.0	<39	<39	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<2.0	<120	<120	<2.0
Perfluorododecanoic Acid	<2.0	<69	<69	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<2.0	<24	<24	<2.0
Perfluoroheptanoic Acid	<2.0	<31	<31	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<110	<110	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<71	<71	<2.0
Perfluorohexanoic Acid	<2.0	<73	<73	<2.0
Perfluorononanesulfonic Acid	<2.0	<46	<46	<2.0
Perfluorononanoic Acid	<2.0	<34	<34	<2.0
Perfluorooctadecanoic Acid	<2.0	<120	<120	<2.0
Perfluorooctane Sulfonamide	<2.0	<120	<120	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<2.0	<38	<38	<2.0
Perfluoropentanoic Acid	<2.0	<61	89	<2.0
Perfluorotetradecanoic Acid	<2.0	<91	<91	<2.0
Perfluorotridecanoic Acid	<2.0	<160	<160	<2.0
Perfluoroundecanoic Acid	<2.0	<140	<140	<2.0
PFOA	<2.0	140	<110	<2.0
PFOS	<2.0	<68	<68	<2.0

**TABLE ATT1-12
GROUNDWATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit¹	--	--
Location ID	EB	EB
Field Sample ID	CAP4Q24-EQBLK-DV-100924	CAP4Q24-EQBLK-PP-100924
Sample Date	10/9/2024	10/9/2024
QA/QC	Equipment Blank	Equipment Blank
Sample Delivery Group (SDG)	320-116097-1	320-116097-1
Lab Sample ID	320-116097-2	320-116097-1
537 Mod (ng/L)		
10:2 Fluorotelomer sulfonate	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.0	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4.0	<4.0
6:2 Fluorotelomer sulfonate	<5.0	<5.0
9Cl-PF3ONS	<2.0	<2.0
DONA	<2.0	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0
N-ethylperfluoro-1-octanesulfonamide	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<2.0	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0
Perfluorobutane Sulfonic Acid	<2.0	<2.0
Perfluorobutanoic Acid	<5.0	<5.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0
Perfluorodecanoic Acid	<2.0	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<2.0	<2.0
Perfluoroheptanoic Acid	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0
Perfluorohexanoic Acid	<2.0	<2.0
Perfluorononanesulfonic Acid	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<2.0	<2.0
Perfluoropentanoic Acid	<2.0	<2.0
Perfluorotetradecanoic Acid	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0
PFOA	<2.0	<2.0
PFOS	<2.0	<2.0

Notes:

1 - Refers to the primary aquifer unit that the well screen is estimated to be screened within.

Bold - Analyte detected above associated reporting limit.

J - Analyte detected. Reported value may not be accurate or precise.

UJ - Analyte not detected. Reporting limit may not be accurate or precise.

B - Analyte detected in an associated blank
ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SDG - Sample Delivery Group

"-Z" in Sample ID denotes field filtration

< - Analyte not detected above associated reporting limit.

TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY DOWNGRADIENT OF REMEDIES (AFTER REMEDIES)
Chemours Fayetteville Works, North Carolina

Pathway Number ¹	1	2	4	4A
Pathway Name	Upstream River Water and Groundwater	Willis Creek	Outfall 002 ³	Stormwater Treatment System ⁴
Flow (MG)	822	3.9	16	--
Program	CAP SW Sampling 4Q24	CAP SW Sampling 4Q24	CAP SW Sampling 3Q24	--
Location ID	CFR-MILE-76	WC-1	OUTFALL 002	STS DISCHARGE
Field Sample ID	CAP4Q24-CFR-RM-76-102324	CAP4Q24-WC-1-24-102424	CAP4Q24-OUTFALL-002-24-102424	--
Sample Date and Time ²	10/23/24	10/24/24	10/24/24	--
Sample Delivery Group (SDG)	320-116530-1	320-116513-1	320-116525-1	--
Lab Sample ID	320-116530-2	320-116513-2	320-116525-3	--
Sample Type	Grab	Composite	Composite	--
<i>Table 3+ Lab SOP Mass Discharge⁶ (mg/s)</i>				
HFPO-DA	ND	0.04	0.04	--
PFMOAA	ND	0.15	0.01	--
PFO2HxA	ND	0.05	7.0E-03	--
PFO3OA	ND	0.01	2.2E-03	--
PFO4DA	ND	1.7E-03	ND	--
PFO5DA	ND	ND	ND	--
PMPA	0.19	0.05	0.01	--
PEPA	ND	0.01	4.8E-03	--
PS Acid	ND	ND	ND	--
Hydro-PS Acid	ND	1.7E-03	ND	--
R-PSDA	0.14	0.03	0.04	--
Hydrolyzed PSDA	ND	0.06	0.06	--
R-PSDCA	ND	ND	ND	--
NVHOS, Acid Form	ND	1.7E-03	ND	--
EVE Acid	ND	ND	ND	--
Hydro-EVE Acid	ND	5.1E-04	ND	--
R-EVE	ND	0.01	0.02	--
PES	ND	ND	ND	--
PFECA B	ND	ND	ND	--
PFECA-G	ND	ND	ND	--
PFPrA	0.58	0.08	-0.07	--
Total Attachment C Mass Discharge^{7,8}	0.19	0.32	0.09	--
Total Table 3+ Mass Discharge (17 compounds)^{7,9}	0.19	0.32	0.09	--
Total Table 3+ Mass Discharge (18 compounds)^{7,10}	0.76	0.39	0.02	--
Total Table 3+ Mass Discharge (21 Compounds)⁷	0.90	0.49	0.13	--

TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY DOWNGRADIENT OF REMEDIES (AFTER REMEDIES)
Chemours Fayetteville Works, North Carolina

Pathway Number ¹	5	6A	6B	6C
Pathway Name	Onsite Groundwater ⁵	Seep A	Seep B	Seep C
Flow (MG)	--	--	--	--
Program	--	--	--	--
Location ID	--	SEEP-A-EFF	SEEP-B-EFF	SEEP-C-EFF
Field Sample ID	--	--	--	--
Sample Date and Time ²	--	--	--	--
Sample Delivery Group (SDG)	--	--	--	--
Lab Sample ID	--	--	--	--
Sample Type	--	--	--	--
Table 3+ Lab SOP Mass Discharge⁶ (mg/s)				
HFPO-DA	6.3E-03	--	--	--
PFMOAA	0.02	--	--	--
PFO2HxA	0.01	--	--	--
PFO3OA	1.7E-03	--	--	--
PFO4DA	3.1E-04	--	--	--
PFO5DA	ND	--	--	--
PMPA	4.9E-03	--	--	--
PEPA	1.5E-03	--	--	--
PS Acid	ND	--	--	--
Hydro-PS Acid	1.1E-04	--	--	--
R-PSDA	4.1E-04	--	--	--
Hydrolyzed PSDA	4.1E-04	--	--	--
R-PSDCA	ND	--	--	--
NVHOS, Acid Form	2.2E-04	--	--	--
EVE Acid	ND	--	--	--
Hydro-EVE Acid	5.0E-05	--	--	--
R-EVE	2.4E-04	--	--	--
PES	ND	--	--	--
PFECA B	ND	--	--	--
PFECA-G	ND	--	--	--
PFPrA	ND	--	--	--
Total Attachment C Mass Discharge^{7,8}	0.04	--	--	--
Total Table 3+ Mass Discharge (17 compounds)^{7,9}	0.04	--	--	--
Total Table 3+ Mass Discharge (18 compounds)^{7,10}	0.06	--	--	--
Total Table 3+ Mass Discharge (21 Compounds)⁷	0.06	--	--	--

TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY DOWNGRADIENT OF REMEDIES (AFTER REMEDIES)
Chemours Fayetteville Works, North Carolina

Pathway Number ¹	6D	6E	6F	7
Pathway Name	Seep D	Lock and Dam Seep ¹¹	Lock and Dam North	Outfall 003 Stream
Flow (MG)	--	0.01	1.2E-03	5.3E-02
Program	--	CAP SW Sampling 4Q24	CAP SW Sampling 4Q24	CAP SW Sampling 4Q24
Location ID	SEEP-D-EFF	Lock-Dam Seep	Lock-Dam North	OLDOF-1
Field Sample ID	--	CAP4Q24-LOCK-DAM-SEEP-102324	CAP4Q24-LOCK-DAM-NORTH-102324	CAP4Q24-OLDOF-1-24-102424
Sample Date and Time ²	--	10/23/2024	10/23/24	10/24/24
Sample Delivery Group (SDG)	--	320-116513-1	320-116530-1	320-116525-1
Lab Sample ID	--	320-116513-4	320-116530-1	320-116525-4
Sample Type	--	Grab	Grab	Composite
Table 3+ Lab SOP Mass Discharge⁶ (mg/s)	--			
HFPO-DA	--	1.4E-03	1.3E-04	6.8E-04
PFMOAA	--	8.5E-03	2.1E-04	4.0E-03
PFO2HxA	--	2.8E-03	1.3E-04	1.4E-03
PFO3OA	--	1.4E-03	2.4E-05	3.5E-04
PFO4DA	--	4.0E-04	4.2E-06	1.5E-04
PFO5DA	--	ND	ND	5.4E-05
PMPA	--	9.7E-04	1.2E-04	4.9E-04
PEPA	--	3.3E-04	4.5E-05	1.6E-04
PS Acid	--	ND	ND	ND
Hydro-PS Acid	--	4.7E-05	3.8E-06	3.3E-05
R-PSDA	--	1.9E-04	1.4E-05	2.6E-04
Hydrolyzed PSDA	--	1.8E-04	ND	2.3E-04
R-PSDCA	--	ND	ND	ND
NVHOS, Acid Form	--	1.8E-04	ND	4.0E-05
EVE Acid	--	ND	ND	ND
Hydro-EVE Acid	--	4.3E-05	ND	1.7E-05
R-EVE	--	6.4E-05	9.2E-06	1.1E-04
PES	--	ND	ND	ND
PFECA B	--	ND	ND	ND
PFECA-G	--	ND	ND	ND
PFPrA	--	3.1E-03	1.9E-04	1.4E-03
Total Attachment C Mass Discharge^{7,8}	--	0.016	6.7E-04	7.2E-03
Total Table 3+ Mass Discharge (17 compounds)^{7,9}	--	0.016	6.7E-04	7.2E-03
Total Table 3+ Mass Discharge (18 compounds)^{7,10}	--	0.019	8.7E-04	8.7E-03
Total Table 3+ Mass Discharge (21 Compounds)⁷	--	0.020	9.2E-04	9.4E-03

TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY DOWNGRAIENT OF REMEDIES (AFTER REMEDIES)
Chemours Fayetteville Works, North Carolina

Pathway Number ¹	9	Sum of All Pathways
Pathway Name	Georgia Branch Creek	
Flow (MG)	1.4	
Program	CAP SW Sampling 4Q24	
Location ID	GBC-1	
Field Sample ID	CAP4Q24-GBC-1-102324	
Sample Date and Time ²	10/23/24	
Sample Delivery Group (SDG)	320-116530-1	
Lab Sample ID	320-116530-3	
Sample Type	Grab	
Table 3+ Lab SOP Mass Discharge⁶ (mg/s)		
HFPO-DA	0.02	0.10
PFMOAA	4.3E-03	0.20
PFO2HxA	0.01	0.09
PFO3OA	2.2E-03	0.02
PFO4DA	5.7E-04	3.1E-03
PFO5DA	ND	5.4E-05
PMPA	0.03	0.28
PEPA	0.01	0.03
PS Acid	ND	ND
Hydro-PS Acid	1.3E-03	3.2E-03
R-PSDA	0.00	0.21
Hydrolyzed PSDA	ND	0.12
R-PSDCA	ND	ND
NVHOS, Acid Form	ND	2.1E-03
EVE Acid	ND	ND
Hydro-EVE Acid	ND	6.2E-04
R-EVE	4.2E-03	0.03
PES	ND	ND
PFECA B	ND	ND
PFECA-G	ND	ND
PFPrA	0.03	ND
Total Attachment C Mass Discharge^{7,8}	0.07	0.74
Total Table 3+ Mass Discharge (17 compounds)^{7,9}	0.07	0.74
Total Table 3+ Mass Discharge (18 compounds)^{7,10}	0.10	1.36
Total Table 3+ Mass Discharge (21 Compounds)⁷	0.11	1.71

Notes:

1 - Pathway 3 (Aerial Deposition on Water Features) and Pathway 8 (Offsite Adjacent and Downstream Groundwater) are not included in this table. Loading from Pathway 3 was estimated using relative concentration ratios from offsite wells, and loading from Pathway 8 was estimated by scaling to the upstream offsite groundwater loading. Further details are provided in Attachment 2 and Cape Fear River PFAS Mass Loading Calculation Protocol Version 2 (Geosyntec, 2020a).

2 - For composite samples, the end of the composite sample time period is listed as the sample date.

3 - Total Table 3+ concentrations at the Intake River Water at the Facility are subtracted from Outfall 002 concentrations to compute the mass discharge at Outfall 002.

4 - The stormwater treatment system treats PFAS originating from Stormwater in the Monomers/IXM area that would otherwise flow to Outfall 002 during storm events. During the October sampling event there was no stormwater flow to the stormwater treatment system, so there was no mass loading calculated for this location.

5 - Due to transient conditions as a result of the groundwater remedy installation and commissioning, gradient measurements are impacted from these activities and should be considered estimates.

6 - Mass discharge by analyte is calculated based on Table 3+ concentrations in Tables A5 and A6, and flow volumes reported in Table A2.

7 - Total PFAS mass discharge is based on the summed Total PFAS concentrations reported in Table A5 and Table A6, which are rounded to two significant figures.

8 - Total Attachment C does not include Perfluoroheptanoic acid (PFHpA).

9 - Total Table 3+ (17 compounds) does not include Perfluoroheptanoic acid (PFHpA), R-PSDA, Hydrolyzed PSDA, R-EVE, and PFPrA.

10 - Total Table 3+ (17 compounds) does not include Perfluoroheptanoic acid (PFHpA), R-PSDA, Hydrolyzed PSDA, and R-EVE.

Bold - Analyte detected above associated reporting limit.

SOP - Standard Operating Procedure.

MG - million gallons ; mg/s - milligrams per second.

ND - Analyte not detected above associated reporting limit.

Attachment ATT2

Direct Aerial Deposition on Cape Fear River

Attachment ATT2: Supporting Calculations – Direct Aerial Deposition on Cape Fear River

Introduction and Objective

Nine pathways (Table A1 of Appendix A) were identified as potentially contributing to observed Cape Fear River per- and polyfluoroalkyl substances (PFAS) concentrations. These pathways include direct PFAS aerial deposition to the Cape Fear River. This pathway was identified as Transport Pathway Number 3 in the PFAS mass loading model. The mass discharge (mass per unit time measured in milligrams per second [mg/s]) from direct aerial deposition of PFAS to the Cape Fear River was estimated by scaling air deposition modeling results for Hexafluoropropylene oxide dimer acid (HFPO-DA; ERM, 2018). The objective of the supporting calculations presented in this appendix is to estimate aerially deposited PFAS directly on the Cape Fear River during a mass loading event.

Approach

HFPO-DA mass loading directly to the Cape Fear River was estimated using the reported aerial extent and deposition contours modeled for October 2018 (ERM, 2018). As depicted in Table ATT2-1, the HFPO-DA air loading data (micrograms per meters squared [$\mu\text{g}/\text{m}^2$]) provided from ERM (2018) was used to calculate the net hourly deposition rate (nanograms per meters squared per hour [$\text{ng}/\text{m}^2/\text{hr}$]) using the Equation 1 below:

Equation 1: Net Hourly Deposition Rate

$$DR_{NET} = \frac{ML_{AIR}}{t_{AIR}}$$

where,

DR_{NET} = Net hourly deposition rate with units of mass per area per time ($\text{M L}^{-2} \text{T}^{-1}$), typically in $\text{ng}/\text{m}^2/\text{hr}$;

ML_{AIR} = Air mass loading of HFPO-DA with units of mass per area (M L^{-2}), typically $\mu\text{g}/\text{m}^2$;
and

t_{AIR} = Time that air mass loading was modeled (T), typically hours.

Depositional area along the river was calculated using available data for river width and computed river lengths where deposition contours were modeled. Eighteen sections (Figure ATT2 2-1) provided from FEMA (2007) were selected along the Cape Fear River to measure the average river width (m). As depicted in Figures ATT2-2 through ATT2-6, sections along the Cape Fear River with HFPO-DA concentrations contours ranging from 40 to 640 $\mu\text{g}/\text{m}^2$ were selected, and the length of the Cape Fear River along each of the sections was measured. The average river width calculated in Table ATT2-2 and section lengths from Figures ATT2-2 through ATT2-6 were used to calculate section areas (m^2) as described in Equation 2 below:

**Attachment ATT2: Supporting Calculations – Direct Aerial
Deposition on Cape Fear River**

Equation 2: Cape Fear River Surface Area for Each Section

$$A_s = L_s \times W_s$$

where,

A_s = Total spatial area over which deposition occurs between contours (L^2) in section “s”, typically in m^2 ;

s = Section along the Cape Fear River with HFPO-DA concentrations contours ranging from 40 to $640 \mu g/m^2$ (five sections in total);

L = Total length of river within section “s”, typically in m; and

W_s = Average river width in section “s”, typically in m.

Start and end deposition rates ($ng/m^2/hr$) for each section along the Cape Fear River will be estimated based on the deposition contours and corresponding net hourly deposition rate (Table ATT2-1); a combined deposition rate for each section will be calculated as the average of the start and end deposition rates. River velocity (meters per hour [m/hr]) will be estimated from measured flow rates from USGS (2025) and the calculated river cross sectional area. Section lengths will be used to calculate HFPO-DA travel time based on the river velocities in Table ATT2-3. The combined deposition rate ($ng/m^2/hr$) from Table ATT2-1, section area (m^2), and travel time (hr) will be used to calculate mass HFPO-DA deposited (ng) as follows in **Equation 3** below.

Equation 3: Total HFPO-DA Mass Discharge to Cape Fear River

$$MD_{HFPO-DA} = \sum_{s=1}^S DR_{AVG,s} \times A_s \times t_s$$

where,

$MD_{HFPO-DA}$ = total mass discharge of HFPO-DA into the river across all sections, with units of mass per time ($M T^{-1}$), typically mg/s ;

s = section along the Cape Fear River with HFPO-DA concentrations contours ranging from 40 to $640 \mu g/m^2$;

S = total number of sections along the Cape Fear River with HFPO-DA concentrations contours ranging from 40 to $640 \mu g/m^2$, five in total;

$DR_{AVG,s}$ = average deposition rate based from the ERM model (2018) in section “s”, typically in $ng/m^2/hr$;

A_s = spatial area over which deposition occurs in section “s”, typically in m^2 ; and

t_s = travel time through the river length in section “s”, typically in hr.

**Attachment ATT2: Supporting Calculations – Direct Aerial
Deposition on Cape Fear River**

The relationship between HFPO-DA and Total Table 3+ (17 compounds) to the Cape Fear River is shown in **Equation 3** below.

Equation 4: Total PFAS Mass Discharge to Cape Fear River

$$MD_{PFAS} = MD_{HFPO-DA} \times R$$

where,

MD_{PFAS} = total mass discharge of PFAS compounds into the river, typically in mg/s;

$MD_{HFPO-DA}$ = total mass discharge of HFPO-DA into the river, typically in mg/s; and

R = average ratio of measured HFPO-DA to Table 3+ compounds across the offsite seeps.

In previous quarterly mass assessment reports, the scaling factor (or average ratio, R) was calculated using analytical data results from offsite groundwater seeps south of Outfall 003 (Seeps E to M) collected in October 2019 and March 2020. Starting Q4 2024, the scaling factor between HFPO-DA and Table 3+ compounds were updated using analytical results from 11 offsite groundwater seeps south of Outfall 003 (Seeps E to O) collected on March 18, 2024 (Figure ATT2-7 and Table ATT2-4).

The updated scaling factors (HFPO-DA to Attachment C compounds, and HFPO-DA to Total Table 3+ [17 compounds]) using the 2024 offsite seep data were within 3.7% to 4.1% of the prior values. This indicates that the updated scaling factors were effectively identical to prior scaling factors and had no bearing on the interpretation of mass loading model results, particularly since the direct aerial deposition pathway is consistently the lowest or one of the lowest contributing transport pathways.

References

ERM, 2018. Modeling Report: HFPO-DA Atmospheric Deposition and Screening Groundwater Effects. 27 April 2018.

Federal Emergency Management Agency (FEMA), 2007. "A Report of Flood Hazards in Bladen County, North Carolina and Incorporated Areas." (2007) Flood Insurance Study, Federal Emergency Management Agency. North Carolina Flood Risk Information System Engineering Model. Cape Fear River ADJ. HEC-RAS 5.0.7.

Geosyntec, 2019. Corrective Action Plan. Chemours Fayetteville Works. December 31, 2019.

USGS, 2025. USGS 02105500 Cape Fear River at Wilm O Huske Lock near Tarheel, NC. Available at: https://waterdata.usgs.gov/nwis/uv?site_no=02105500

TABLE ATT2-1
NET HOURLY HFPO-DA DEPOSITION RATE
Chemours Fayetteville Works, North Carolina

Air Loading ($\mu\text{g}/\text{m}^2$)	Air Loading (ng/m^2)	Time (year)	Time (hour)	Net Hourly Deposition Rate ($\text{ng}/\text{m}^2/\text{hr}$)
40	40,000	1	8,760	4.6
80	80,000	1	8,760	9.1
160	160,000	1	8,760	18.3
320	320,000	1	8,760	36.5
640	640,000	1	8,760	73.1

Notes:

1. HFPO-DA model values are from ERM (2018). Modeling Report: HFPO-DA Atmospheric Deposition and Screening Groundwater Effects. 27 April 2018.
2. Air deposition contours are shown in Figures ATT2 through ATT6.
3. Net hourly deposition rates are used in the mass discharge calculations, Table ATT2-5.

Abbreviations:

- $\mu\text{g}/\text{m}^2$: micrograms per meter square.
 ng/L : nanograms per liter.
 $\text{ng}/\text{m}^2/\text{hr}$: nanograms per meter square per hour.

**TABLE ATT2-2
ESTIMATION OF CAPE FEAR RIVER AVERAGE WIDTH
Chemours Fayetteville Works, North Carolina**

Cross section ID*	HEC-RAS Model Point ID**	Easting (ft)	Northing (ft)	Cape Fear River Width at Cross Section (m)
619506	0	2,052,368	399,949	84
	1	2,052,366	399,949	
	2	2,052,334	399,946	
	3	2,052,254	399,938	
	4	2,052,155	399,928	
	5	2,052,095	399,922	
	6	2,052,093	399,922	
614224	18	2,053,460	394,655	163
	19	2,053,436	394,649	
	20	2,053,281	394,613	
	21	2,053,277	394,612	
	22	2,053,180	394,590	
	23	2,053,079	394,566	
	24	2,052,977	394,543	
	25	2,052,949	394,536	
	26	2,052,924	394,531	
616535	7	2,053,113	396,901	91
	8	2,053,070	396,895	
	9	2,052,990	396,886	
	10	2,052,891	396,874	
	11	2,052,831	396,867	
	12	2,052,815	396,865	
613542	21	2,053,373	393,937	89
	22	2,053,349	393,931	
	23	2,053,271	393,913	
	24	2,053,174	393,891	
	25	2,053,115	393,877	
	26	2,053,081	393,869	
614517	13	2,053,209	394,897	76***
	14	2,053,130	394,878	
	15	2,053,032	394,854	
	16	2,052,974	394,840	
	17	2,052,961	394,837	
610240	31	2,053,769	390,652	60***
	32	2,053,729	390,645	
	33	2,053,643	390,630	
	34	2,053,602	390,623	
	35	2,053,572	390,618	
612082	27	2,053,560	392,482	72
	28	2,053,430	392,455	
	29	2,053,370	392,443	
	30	2,053,322	392,433	
606667	1271	2,054,059	387,249	101
	1272	2,054,022	387,215	
	1273	2,053,995	387,190	
	1274	2,053,946	387,145	
	1275	2,053,861	387,067	
	1276	2,053,812	387,023	
	1277	2,053,801	387,012	
	1278	2,053,727	386,945	
608468	1193	2,053,950	388,876	107
	1194	2,053,902	388,874	
	1195	2,053,843	388,871	
	1196	2,053,717	388,866	
	1197	2,053,659	388,864	
	1198	2,053,650	388,863	
	1199	2,053,600	388,861	
606667	1271	2,054,059	387,249	101
	1272	2,054,022	387,215	
	1273	2,053,995	387,190	
	1274	2,053,946	387,145	
	1275	2,053,861	387,067	
	1276	2,053,812	387,023	
	1277	2,053,801	387,012	
	1278	2,053,727	386,945	

**TABLE ATT2-2
ESTIMATION OF CAPE FEAR RIVER AVERAGE WIDTH
Chemours Fayetteville Works, North Carolina**

Cross section ID*	HEC-RAS Model Point ID**	Easting (ft)	Northing (ft)	Cape Fear River Width at Cross Section (m)
600052	1498	2,057,643	382,269	87
	1499	2,057,610	382,246	
	1500	2,057,556	382,208	
	1501	2,057,461	382,141	
	1502	2,057,408	382,103	
	1503	2,057,398	382,096	
	1504	2,057,358	382,067	
604474	1331	2,055,879	386,154	95
	1332	2,055,812	386,120	
	1333	2,055,753	386,090	
	1334	2,055,647	386,037	
	1335	2,055,588	386,007	
	1336	2,055,566	385,996	
597968	1565	2,058,901	380,593	116
	1566	2,058,830	380,549	
	1567	2,058,774	380,515	
	1568	2,058,675	380,453	
	1569	2,058,619	380,418	
	1570	2,058,518	380,356	
602061	1406	2,056,453	383,857	104
	1407	2,056,356	383,798	
	1408	2,056,301	383,763	
	1409	2,056,202	383,702	
	1410	2,056,146	383,667	
	1411	2,056,113	383,647	
594185	1717	2,060,560	377,186	100
	1718	2,060,482	377,157	
	1719	2,060,421	377,134	
	1720	2,060,312	377,094	
	1721	2,060,250	377,071	
	1722	2,060,232	377,065	
596259	1644	2,059,549	379,003	84
	1645	2,059,534	378,996	
	1646	2,059,474	378,970	
	1647	2,059,368	378,923	
	1648	2,059,308	378,896	
	1649	2,059,275	378,881	
587968	2042	2,061,270	371,304	93
	2043	2,061,246	371,290	
	2044	2,061,179	371,252	
	2045	2,061,092	371,203	
	2046	2,061,042	371,174	
	2047	2,060,966	371,131	
591595	1825	2,060,295	374,663	91
	1826	2,060,270	374,661	
	1827	2,060,201	374,658	
	1828	2,060,079	374,653	
	1829	2,060,010	374,650	
	1830	2,059,995	374,649	
590322	1931	2,060,424	373,459	100
	1932	2,060,378	373,442	
	1933	2,060,372	373,439	
	1934	2,060,311	373,416	
	1935	2,060,202	373,376	
	1936	2,060,140	373,353	
	1937	2,060,097	373,336	
Average River Cross Section Width (m) =				99

Notes:

*Cross sections locations are shown in Figure ATT2-1.

**Model point ID: are locations with northing, easting, and river depths provided in the HEC-RAS model.

1 - Data provided from: "A Report of Flood Hazards in Bladen County, North Carolina and Incorporated Areas." RiverADJ. HEC-RAS 5.0.7. (2007) Flood Insurance Study, Federal Emergency Management Agency. North Carolina Flood Risk Information System Engineering Model. Cape Fear RiverADJ. HEC-RAS 5.0.7.

2 - The horizontal datum is North American Datum 1983 projected into North Carolina East State Plane (3200).

3 - The vertical datum is North American Datum 1988 projected into North Carolina East State Plane (3200).

Abbreviations:

ft: feet

m: meter

**TABLE ATT2-3
SUMMARY OF FLOW IN CAPE FEAR RIVER AT WILM O'HUSKE LOCK NR TARHEEL, NC
Chemours Fayetteville Works, North Carolina**

Date	USGS Reported Average Discharge¹ (cfs)	USGS Reported Average Gage Height¹ (ft)	USGS Reported Total Precipitation^{1,2} (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value³	Calculated Total Cross Sectional Area (ft²)	Calculated River Velocity (ft/s)
10/23/2024	1293.65	1.59	0	36,632	323	18	2	5,197	0.2
10/24/2024	1273.75	1.58	0	36,069	323	18	3	4,867	0.3
Average River Velocity:									0.3

Notes:

- 1 - Measurements are recorded from the USGS flow gauging station at the W.O. Huske Dam, ID 02105500 (USGS, 2023).
 - 2 - The minimum value recorded by a USGS raingage is 0.01 inches. Anything detected below this threshold is recorded as 0 inches.
 - 3 - Z value is an estimated factor used to compute total cross sectional area from river depth.
- cfs: cubic feet per second
 ft: feet
 ft²: feet squared
 ft/s: feet per second
 L/s: Liter per second
 USGS - United States Geological Survey

**TABLE ATT2-4
RATIO OF OTHER PFAS COMPOUNDS TO HFPO-DA
Chemours Fayetteville Works, North Carolina**

Location ID	SEEP-E	SEEP-F	SEEP-G	SEEP-G	SEEP-H	SEEP-I	SEEP-J
Field Sample ID	SEEP-E-031824	SEEP-F-031824	SEEP-G-031824	SEEP-G-031824-D	SEEP-H-031824	SEEP-I-031824	SEEP-J-031824
Sample Date	3/18/2024	3/18/2024	3/18/2024	3/18/2024	3/18/2024	3/18/2024	3/18/2024
QA/QC				DUP			
Sample Delivery Group (SDG)	320-110631-1	320-110631-1	320-110631-1	320-110631-1	320-110631-1	320-110631-1	320-110631-1
Lab Sample ID	320-110631-1	320-110631-2	320-110631-3	320-110631-4	320-110631-5	320-110631-6	320-110631-7
Table 3+ SOP (ng/L)							
HFPO-DA	740	800	790	780	600	650	370
PFMOAA	270	240	150	140	91	110	55
PFO2HxA	540	640	590	530	270	360	130
PFO3OA	38	90	64	52	33	27	13
PFO4DA	18	10	6	3.7	3	2.7	3
PFO5DA	8.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	1,500	1,500	1,300	1,300	870	950	600
PEPA	570	510	510	520	350	440	180
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	44	19	12	12	16	12	5.2
R-PSDA	300	330	210	230	75	120	32
Hydrolyzed PSDA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDCA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
NVHOS	8.8	7.3	6.5	4.6	5.1	6.7	<3.0
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	3.4	2.3	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	110	130	86	87	34	48	15
PES	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFECA B	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFECA-G	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFPrA	1,000	1,200	930	970	640	730	500
Total Attachment C (ng/L)^{1,2}	3,700	3,800	3,400	3,300	2,200	2,600	1,400
Total Table 3+ (17 compounds) (ng/L)^{2,3}	3,700	3,800	3,400	3,300	2,200	2,600	1,400
Total Table 3+ (18 Compounds) (ng/L)^{2,4}	4,700	5,000	4,400	4,300	2,900	3,300	1,900
Total Table 3+ (21 Compounds) (ng/L)²	5,200	5,500	4,700	4,600	3,000	3,500	1,900
Ratio of Total Attachment C to HFPO-DA	5.0	4.8	4.3	4.2	3.7	4.0	3.8
Ratio of Total Table 3+ (17 compounds) to HFPO-DA	5.0	4.8	4.3	4.2	3.7	4.0	3.8
Ratio of Total Table 3+ (18 Compounds) to HFPO-DA	6.4	6.3	5.6	5.5	4.8	5.1	5.1
Ratio of Total Table 3+ (21 Compounds) to HFPO-DA	7.0	6.9	5.9	5.9	5.0	5.4	5.1
Average Ratio of Total Attachment C to HFPO-DA	5.05						
Average Ratio of Total Table 3+ (17 compounds) to HFPO-DA	5.05						
Average Ratio of Total Table 3+ (18 Compounds) to HFPO-DA	6.61						
Average Ratio of Total Table 3+ (21 Compounds) to HFPO-DA	6.99						

**TABLE ATT2-4
RATIO OF OTHER PFAS COMPOUNDS TO HFPO-DA
Chemours Fayetteville Works, North Carolina**

Location ID	SEEP-K	SEEP-L	SEEP-M	SEEP-N	SEEP-O
Field Sample ID	SEEP-K-031824	SEEP-L-031824	SEEP-M-031824	SEEP-N-031824	SEEP-O-031824
Sample Date	3/18/2024	3/18/2024	3/18/2024	3/18/2024	3/18/2024
QA/QC					
Sample Delivery Group (SDG)	320-110620-1	320-110620-1	320-110620-1	320-110620-1	320-110620-1
Lab Sample ID	320-110620-1	320-110620-2	320-110620-3	320-110620-4	320-110620-5
Table 3+ SOP (ng/L)					
HFPO-DA	340	330	650	280	270
PFMOAA	140	98	110	360	200
PFO2HxA	230	270	340	330	200
PFO3OA	27	22	23	35	12
PFO4DA	5	4	3	4.5	2.3
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	950	870	1,200	680	1,100
PEPA	320	290	440	230	310
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	23	24	15	60	23
R-PSDA	61	83	50	100	110
Hydrolyzed PSDA	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDCA	<3.0	<3.0	<3.0	<3.0	<3.0
NVHOS	4.5	7.9	<3.0	11	<3.0
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	2.8	<2.0
R-EVE	21	24	16	24	36
PES	<2.0	<2.0	<2.0	<2.0	<2.0
PFECA B	<2.0	<2.0	<2.0	<2.0	<2.0
PFECA-G	<2.0	<2.0	<2.0	<2.0	<2.0
PFPrA	550	650	670	540	800
Total Attachment C (ng/L)^{1,2}	2,000	1,900	2,800	2,000	2,100
Total Table 3+ (17 compounds) (ng/L)^{2,3}	2,000	1,900	2,800	2,000	2,100
Total Table 3+ (18 Compounds) (ng/L)^{2,4}	2,600	2,600	3,500	2,500	2,900
Total Table 3+ (21 Compounds) (ng/L)²	2,700	2,700	3,500	2,700	3,100
Ratio of Total Attachment C to HFPO-DA	5.9	5.8	4.3	7.1	7.8
Ratio of Total Table 3+ (17 compounds) to HFPO-DA	5.9	5.8	4.3	7.1	7.8
Ratio of Total Table 3+ (18 Compounds) to HFPO-DA	7.6	7.9	5.4	8.9	10.7
Ratio of Total Table 3+ (21 Compounds) to HFPO-DA	7.9	8.2	5.4	9.6	11.5
Average Ratio of Total Attachment C to HFPO-DA	5.1				
Average Ratio of Total Table 3+ (17 compounds) to HFPO-DA	5.05				
Average Ratio of Total Table 3+ (18 Compounds) to HFPO-DA	6.61				
Average Ratio of Total Table 3+ (21 Compounds) to HFPO-DA	6.99				

Notes:

- 1 - Total Attachment C does not include Perfluoroheptanoic acid (PFHpA).
 - 2 - Total Table 3+ and Total Attachment C were calculated including J qualified data but not non-detect data. The sum is rounded to two significant figures.
 - 3 - Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, R-EVE, and PFPrA.
 - 4 - Total Table 3+ (18 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, and R-EVE.
- Bold** - Analyte detected above associated reporting limit
 J - Analyte detected. Reported value may not be accurate or precise
 ng/L - nanograms per liter
 QA/QC - Quality assurance/ quality control
 SOP - standard operating procedure
 < - Analyte not detected above associated reporting limit.

**TABLE ATT2-5
CALCULATION OF HFPO-DA DEPOSITED MASS AND MASS FLUX
Chemours Fayetteville Works, North Carolina**

Section ¹	Start Air Loading (ug/m ²)	End Air Loading (ug/m ²)	Start Deposition Rate (ng/m ² /hr) ²	End Deposition Rate (ng/m ² /hr) ²	Average Deposition Rate (ng/m ² /hr)	Section Distance ³ (m)	Average River Width (m)	Section Area (m ²)	River Velocity ⁴ (ft/s)	River Velocity (m/hr)	Travel Time (hrs)	Mass Deposited (mg)	Mass Discharge (mg/s)
Center	160	160	18.3	18.3	18.3	903	98.59	89,028	0.3	280.16	3.22	5.2	0.00045
Up River Section 1	160	80	18.3	9.1	13.7	490	98.59	48,300	0.3	280.16	1.75	1.2	0.00018
Up River Section 2	80	40	9.1	4.6	6.8	909	98.59	89,570	0.3	280.16	3.24	2.0	0.00017
Down River Section 1	160	80	18.3	9.1	13.7	586	98.59	57,813	0.3	280.16	2.09	1.7	0.00022
Down River Section 2	80	40	9.1	4.6	6.8	565	98.59	55,672	0.3	280.16	2.02	0.8	0.00011
Total HFPO-DA:												0.0011	
Total Attachment C⁵:												0.01	
Total Table 3+ (17 Compounds)⁶:												0.006	

Notes:

- 1 - River cross sections are shown in Figure ATT2-1.
- 2 - Based on model deposition rate, Table ATT2-1.
- 3 - Section distances are measured in GIS as shown on Figures ATT2-2 through ATT2-6.
- 4 - River velocity is calculated as an average from USGS discharge data between October 23 - 24, 2024, Table ATT2-3.
- 5 - Total Attachment C does not include Perfluoroheptanoic acid (PFHpA).
- 6 - Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, R-EVE, and PFPrA.

µg/m²/yr: micrograms per meter square per year

ft/s: feet per second

hr: hours

m/hr: meters per hour

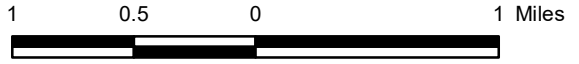
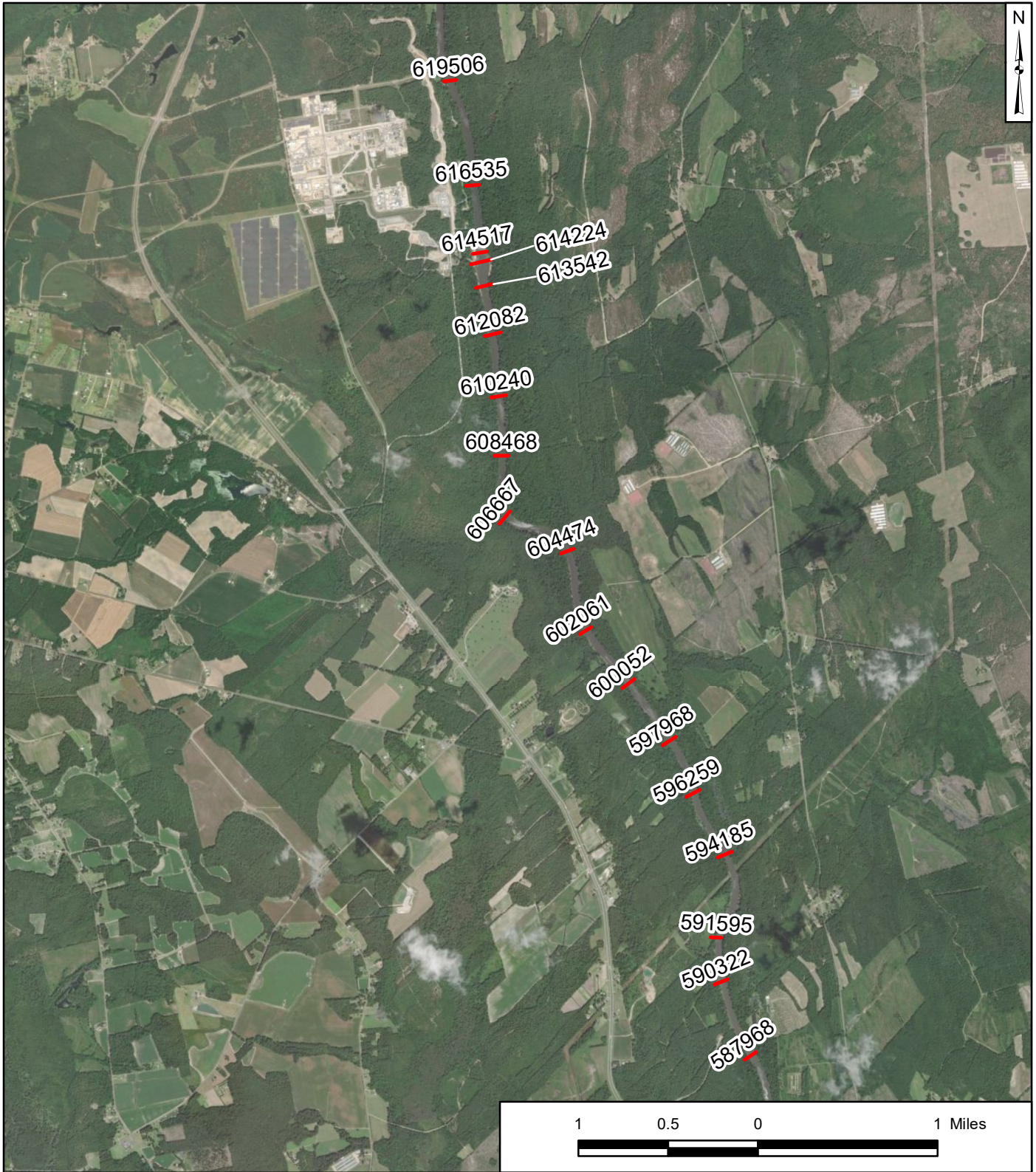
m: meter

m²: meter square

mg/s: milligrams per second

mg: milligrams

ng/m²/hr: nanograms per meter square per hour



Legend

Cross Section

Notes:

1. Cape Fear River cross section locations obtained from "A Report of Flood Hazards in Bladen County, North Carolina and Incorporated Areas." (2007) Flood Insurance Study, Federal Emergency Management Agency. North Carolina Flood Risk Information System Engineering Model. Cape Fear RiverADJ. HEC-RAS 5.0.7.
2. Cross sections used for calculation of average river widths for calculation of aerial mass loading.
3. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Cape Fear River Cross Sections Locations

Chemours Fayetteville Works, North Carolina

Geosyntec
consultants

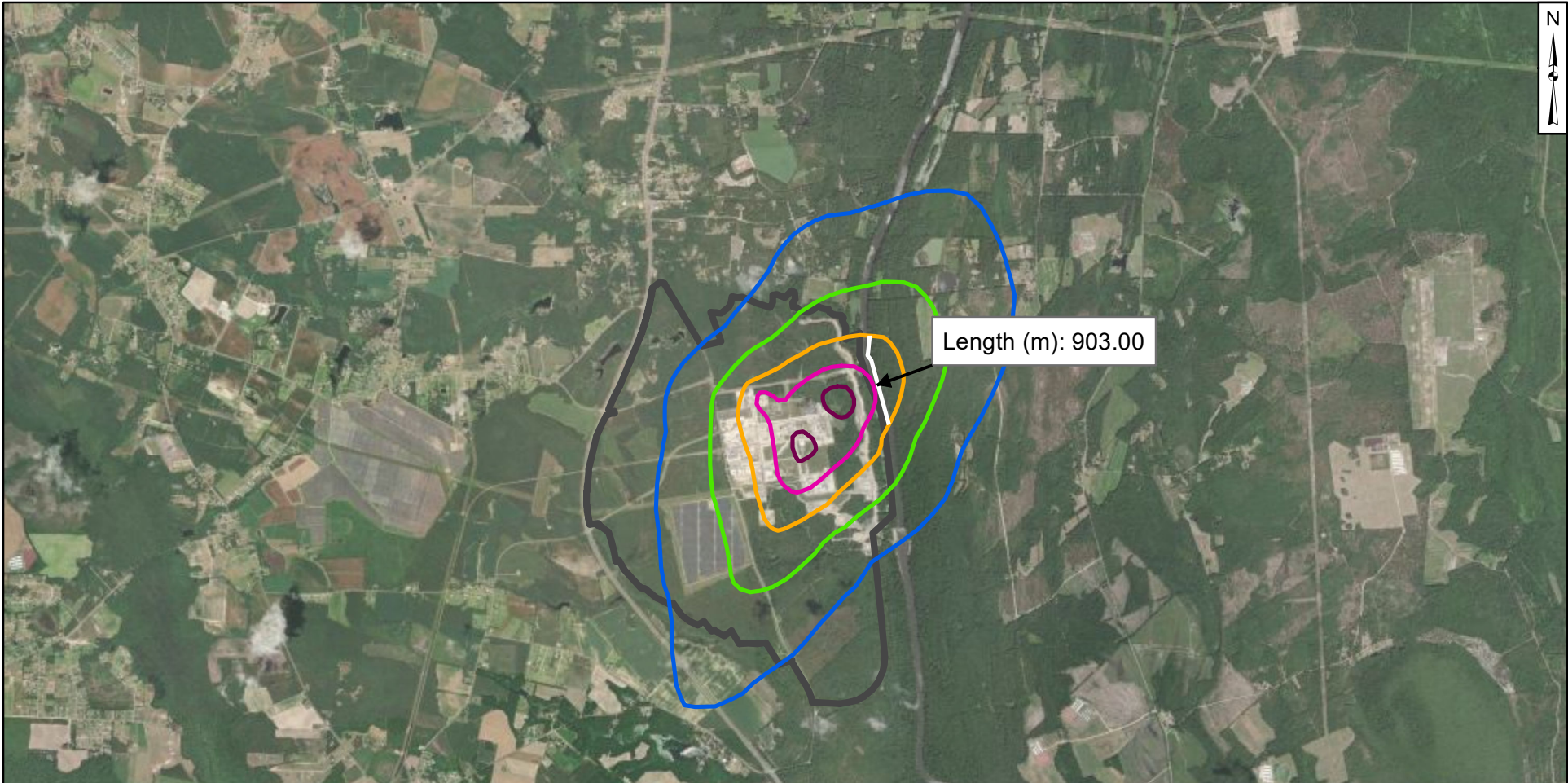
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Figure

ATT2-1

Raleigh

March 2025



Legend

— Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 $\mu\text{g}/\text{m}^2/\text{yr}$
- 80 $\mu\text{g}/\text{m}^2/\text{yr}$
- 160 $\mu\text{g}/\text{m}^2/\text{yr}$
- 320 $\mu\text{g}/\text{m}^2/\text{yr}$
- 640 $\mu\text{g}/\text{m}^2/\text{yr}$

Notes:
 $\mu\text{g} / \text{m}^2 / \text{yr}$ - micrograms per square meter per year

HFPO-DA deposition model contours for October 2018 from ERM, 2018, Modeling Report: HFPO-DA Atmospheric Deposition and Screening Groundwater Effects. 27 April 2018.

Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

1 0.5 0 1 Miles



Measurement of Cape Fear River Length at Down-River Section 2

Chemours Fayetteville Works, North Carolina

Geosyntec
 consultants

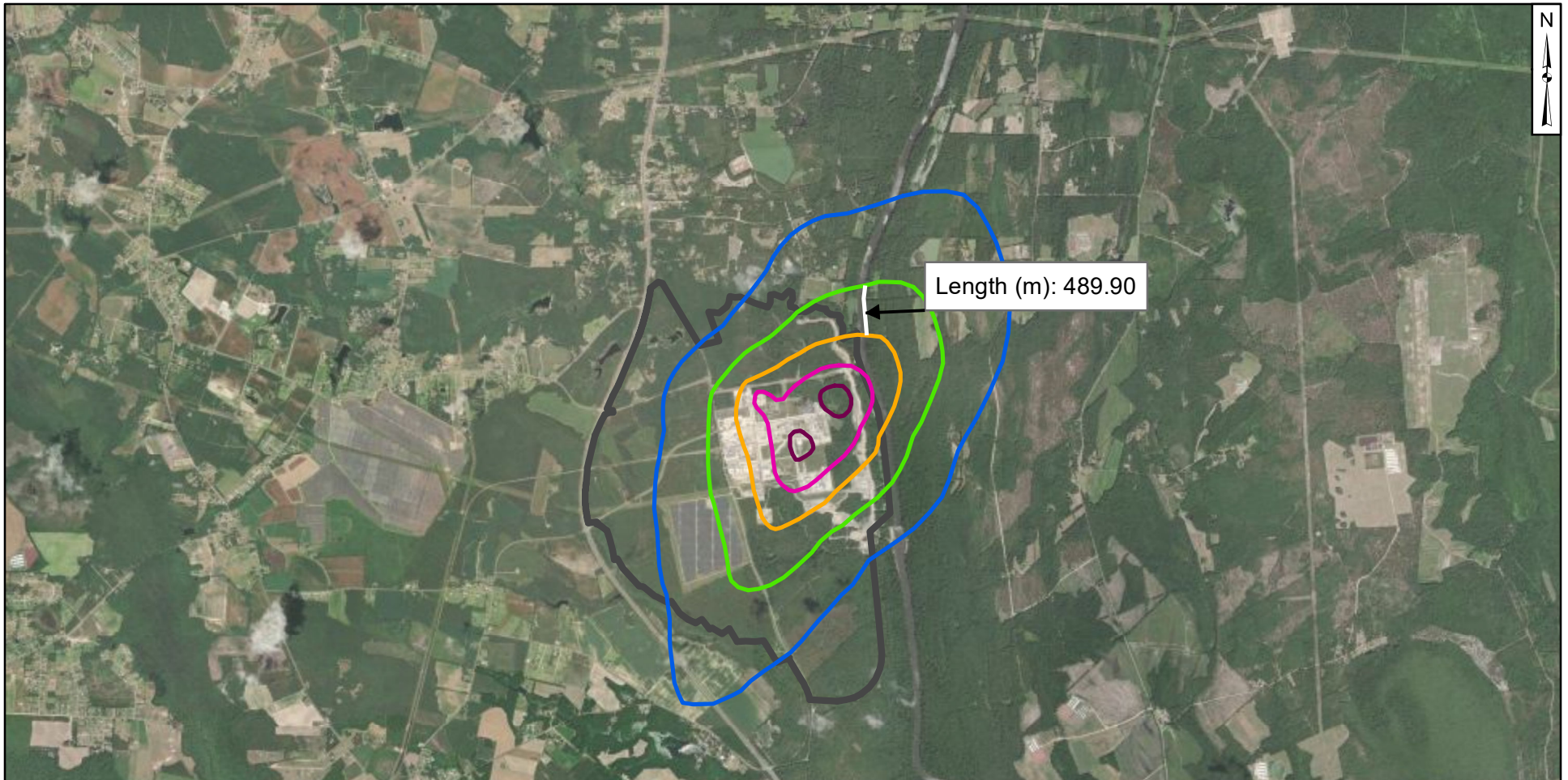
Geosyntec Consultants of NC, P.C.
 NC License No.: C 3500 and C 295

Figure

ATT2-2

Raleigh

March 2025



Legend

— Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 $\mu\text{g}/\text{m}^2/\text{yr}$
- 80 $\mu\text{g}/\text{m}^2/\text{yr}$
- 160 $\mu\text{g}/\text{m}^2/\text{yr}$
- 320 $\mu\text{g}/\text{m}^2/\text{yr}$
- 640 $\mu\text{g}/\text{m}^2/\text{yr}$

Notes:
 $\mu\text{g} / \text{m}^2 / \text{yr}$ - micrograms per square meter per year

HFPO-DA deposition model contours for October 2018 from ERM, 2018, Modeling Report: HFPO-DA Atmospheric Deposition and Screening Groundwater Effects. 27 April 2018.

Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

1 0.5 0 1 Miles



Measurement of Cape Fear River Length at Up-River Section 1

Chemours Fayetteville Works, North Carolina

Geosyntec
 consultants

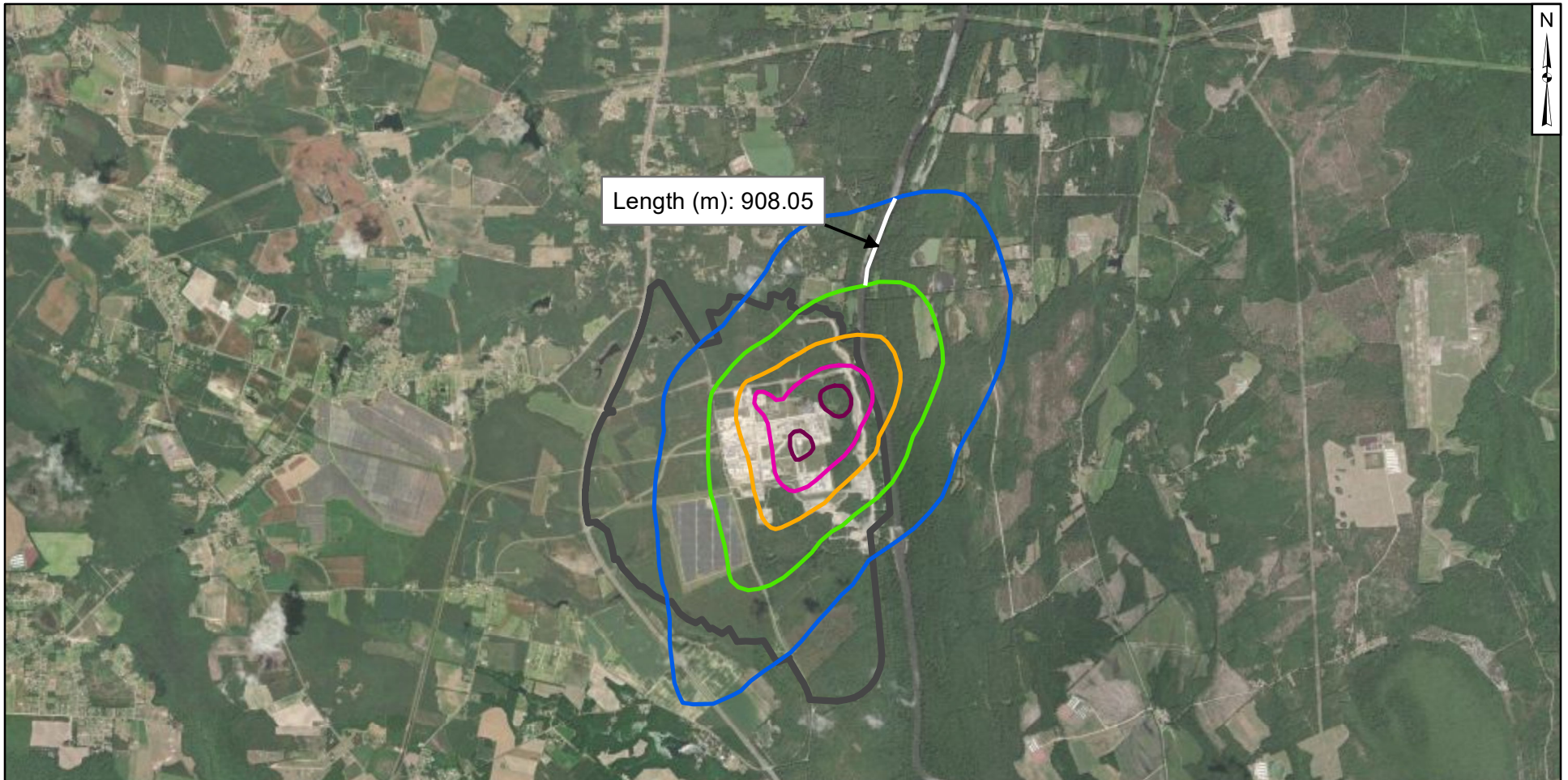
Geosyntec Consultants of NC, P.C.
 NC License No.: C 3500 and C 295

Figure

ATT2-3

Raleigh

March 2025



Legend

— Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 $\mu\text{g}/\text{m}^2/\text{yr}$
- 80 $\mu\text{g}/\text{m}^2/\text{yr}$
- 160 $\mu\text{g}/\text{m}^2/\text{yr}$
- 320 $\mu\text{g}/\text{m}^2/\text{yr}$
- 640 $\mu\text{g}/\text{m}^2/\text{yr}$

Notes:
 $\mu\text{g} / \text{m}^2 / \text{yr}$ - micrograms per square meter per year

HFPO-DA deposition model contours for October 2018 from ERM, 2018, Modeling Report: HFPO-DA Atmospheric Deposition and Screening Groundwater Effects. 27 April 2018.

Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

1 0.5 0 1 Miles



Measurement of Cape Fear River Length at Up-River Section 2

Chemours Fayetteville Works, North Carolina

Geosyntec
 consultants

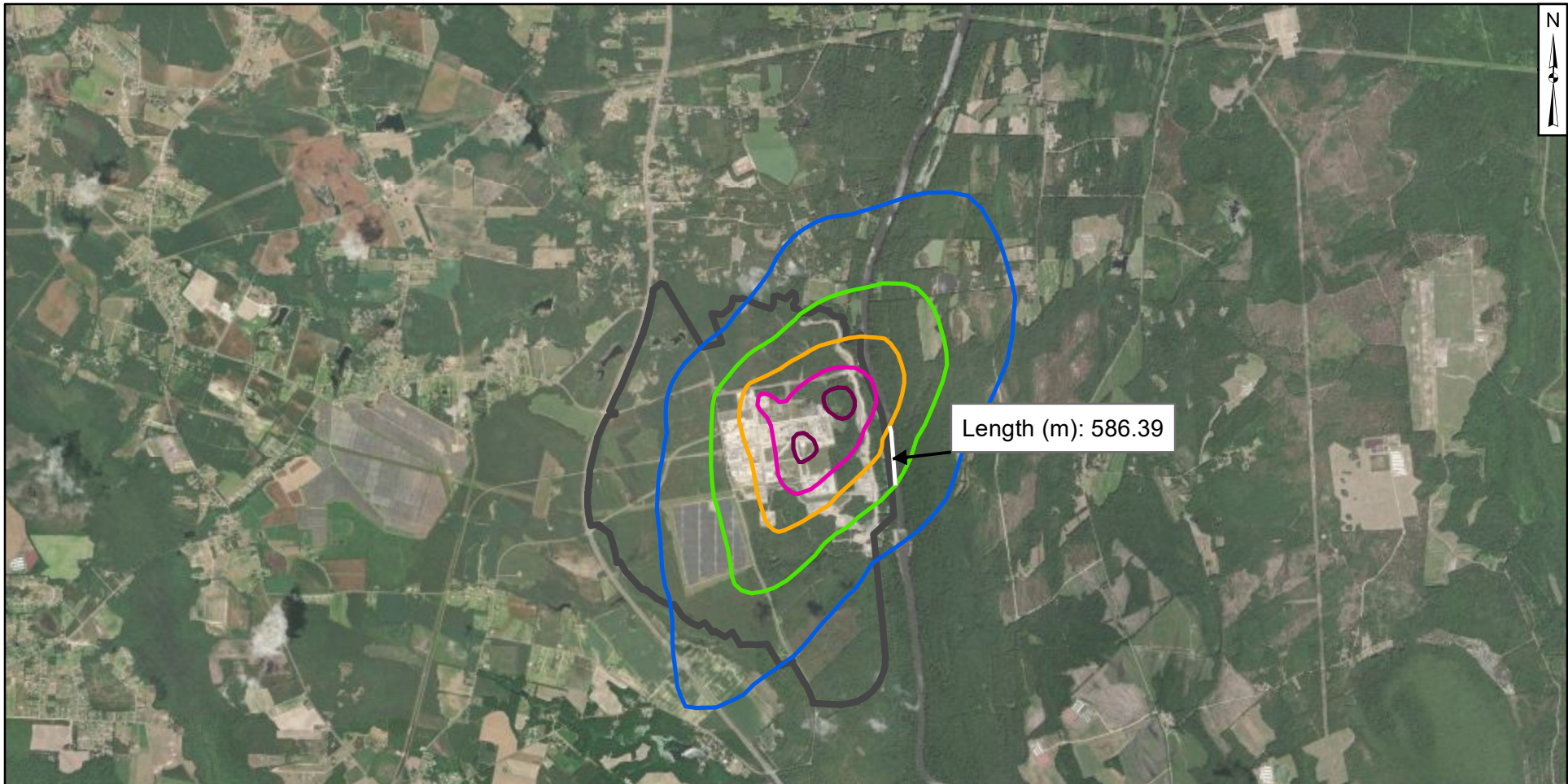
Geosyntec Consultants of NC, P.C.
 NC License No.: C 3500 and C 295

Figure

ATT2-4

Raleigh

March 2025



Legend

— Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 $\mu\text{g}/\text{m}^2/\text{yr}$
- 80 $\mu\text{g}/\text{m}^2/\text{yr}$
- 160 $\mu\text{g}/\text{m}^2/\text{yr}$
- 320 $\mu\text{g}/\text{m}^2/\text{yr}$
- 640 $\mu\text{g}/\text{m}^2/\text{yr}$

Notes:
 $\mu\text{g} / \text{m}^2 / \text{yr}$ - micrograms per square meter per year

HFPO-DA deposition model contours for October 2018 from ERM, 2018, Modeling Report: HFPO-DA Atmospheric Deposition and Screening Groundwater Effects. 27 April 2018.

Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

1 0.5 0 1 Miles



Measurement of Cape Fear River Length at Down-River Section 1

Chemours Fayetteville Works, North Carolina

Geosyntec
 consultants

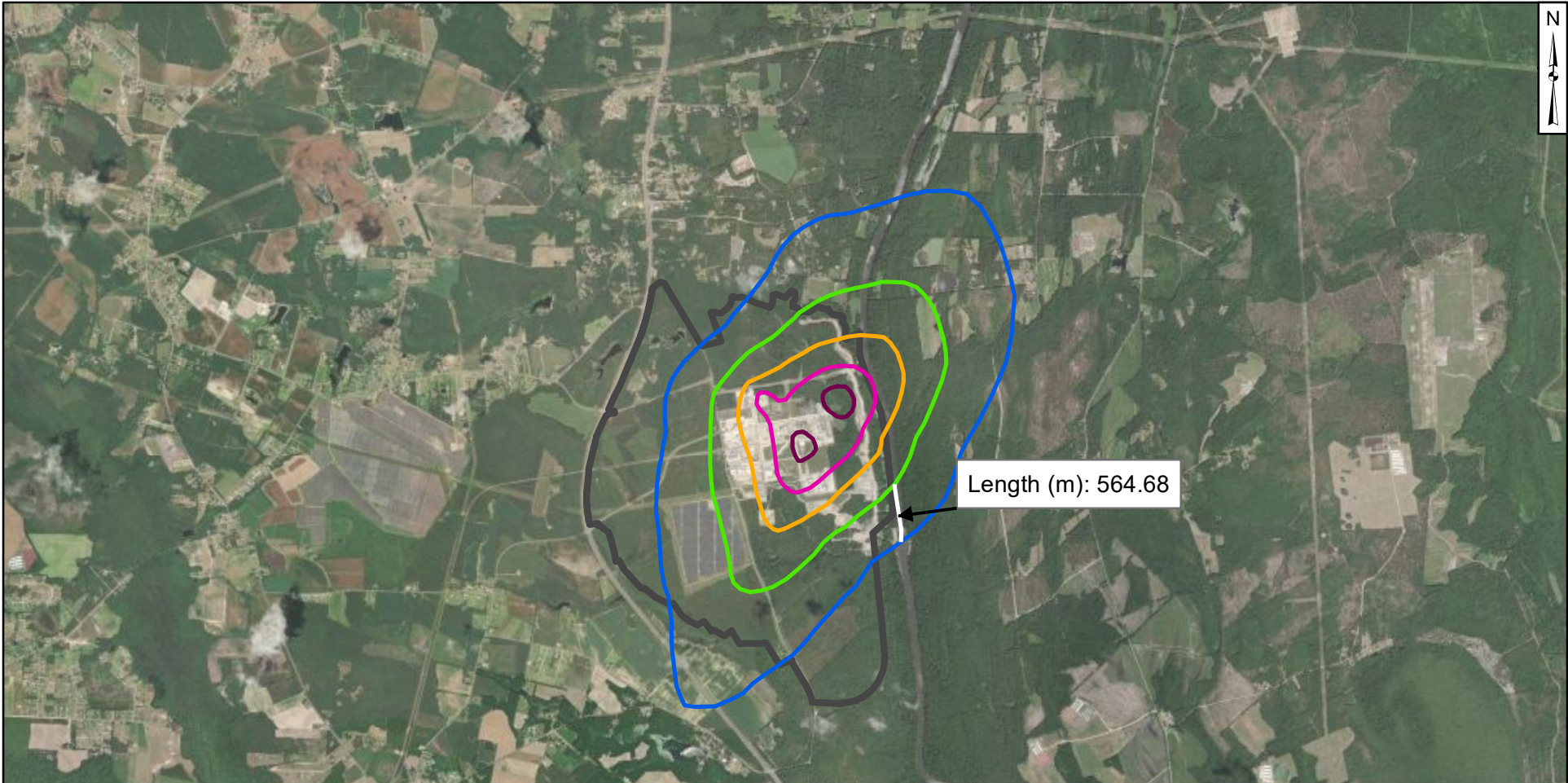
Geosyntec Consultants of NC, P.C.
 NC License No.: C 3500 and C 295

Figure

ATT2-5

Raleigh

March 2025



Legend

— Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 µg/m²/yr
- 80 µg/m²/yr
- 160 µg/m²/yr
- 320 µg/m²/yr
- 640 µg/m²/yr

Notes:

µg / m² / yr - micrograms per square meter per year

HFPO-DA deposition model contours for October 2018 from ERM, 2018, Modeling Report: HFPO-DA Atmospheric Deposition and Screening Groundwater Effects. 27 April 2018.

Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

1 0.5 0 1 Miles



Measurement of Cape Fear River Length at Down-River Section 2

Chemours Fayetteville Works, North Carolina

Geosyntec
consultants

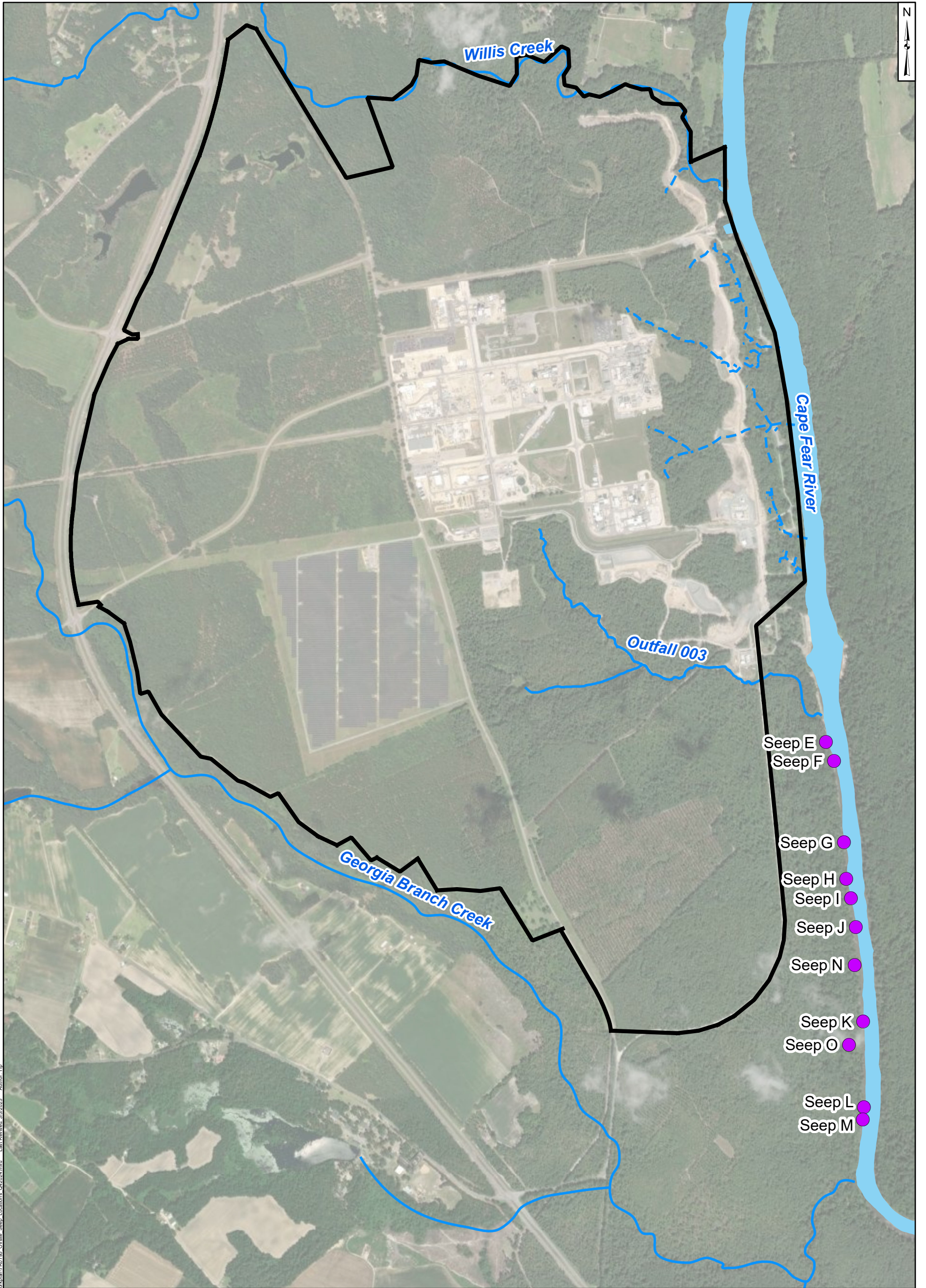
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Figure

ATT2-6

Raleigh

March 2025



Path:\Quality-Check\Projects\TR0792\Baseline Monitoring\Workshop\TR0792 - Offsite Seep Locations_Q32024.mxd - Last Revised: 3/5/2025 - Author: TJP
 Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet, Units in Foot US

Legend

- Offsite Seep Location South of Outfall 003
- Observed Seep
- Nearby Tributary
- Site Boundary

Notes:

1. Seep E to O samples were collected where the seeps entered the Cape Fear River. Their locations on this figure have been slightly adjusted to facilitate interpretation so that they do not appear to be in the Cape Fear River.
2. The outline of Cape Fear River is approximate and is based on open data from ArcGIS Online and North Carolina Department of Environmental Quality Online GIS (MajorHydro shapefile).
3. Basemap Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

1,000 500 0 1,000 Feet



Offsite Seep Locations South of Outfall 003

Chemours Fayetteville Works, North Carolina

Geosyntec
consultants

Geosyntec Consultants of NC, P.C.
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Figure

ATT2-7

Raleigh

March 2025

Attachment ATT3

Onsite Groundwater Pathway

Attachment ATT3: Supporting Calculations – Onsite Groundwater Pathway

Introduction and Objective

Based on the conceptual site model, the Black Creek Aquifer and the Flood Plain deposits at the river bank are the primary hydrogeologic units that are potentially in hydraulic connection with the Cape Fear River. The Cape Fear River stage is lower than the top of the Black Creek Aquifer, except during peak rainfall or flooding, indicating that the Cape Fear River is a discharge boundary for the aquifer. Onsite groundwater from the Black Creek Aquifer discharging to the Cape Fear River is therefore a potential pathway for per- and polyfluoroalkyl substances (PFAS) mass loading to the Cape Fear River. This pathway was identified as Transport Pathway Number 5 in the PFAS mass loading in this report. The objective of the supporting calculations presented in this appendix is to estimate PFAS mass loading from onsite groundwater discharge based on calculated PFAS mass flux for segments of the Black Creek Aquifer along the river frontage.

Prior to Q2 2023, hydraulic gradients were derived from potentiometric maps. Since Q2 2023, hydraulic gradients were estimated between well pairs downgradient of the remedy, since the prior method is considered not appropriate for these new conditions since barrier wall results in a discontinuous potentiometric surface. This change will continue to be incorporated in future mass loading assessments.

Approach

The PFAS mass loading from onsite groundwater discharge was estimated as follows. Supporting data are provided in Table ATT3-1:

1. The Cape Fear River frontage was divided into nine segments (Figure ATT3-1). Each segment includes one well pair, consisting of:
 - a. One primary groundwater monitoring well that is considered representative of the Black Creek Aquifer and that is included in the Corrective Action Plan¹ (Geosyntec, 2019); and
 - b. One secondary paired groundwater monitoring well that is generally west of the groundwater monitoring well, east of the Barrier Wall remedy, and also considered representative of the Black Creek Aquifer.
2. The thickness of the Black Creek Aquifer (h) was estimated for each segment based on the segment length and the cross-sectional area of the Black Creek Aquifer, as determined by the three-dimensional hydrostratigraphic model of the Site, constructed using CTech's Earth Volumetric Studio (EVS) software (Geosyntec, 2019):

¹ The Black Creek Aquifer is not observed in boreholes from Segment 4 suggesting a localized "pinch-out" of the Black Creek Aquifer in Segment 4. The monitoring well used to determine PFAS mass loading in this segment is screened in the Floodplain Deposits (LTW-03).

**Attachment ATT3: Supporting Calculations – Onsite
Groundwater Pathway**

$$h = \frac{A}{l}$$

where,

h = the Black Creek Aquifer thickness [ft];

A = the cross-sectional area of the Black Creek Aquifer [ft²]; and

l = the segment length [ft].

The EVS model output for each segment is presented in Figure ATT3-2.

3. The hydraulic gradient (i) for each segment was derived based on the groundwater elevations and distance between each well within the well pair (Figure ATT3-3):

$$i = \frac{-\Delta h}{d}$$

where,

i = the hydraulic gradient [ft/ft];

Δh = the head difference between the two wells [ft]; and

d = the distance between the two wells [ft]

Unlike past quarterly reports, only a single hydraulic gradient value was estimated for each segment (i.e., no lower and upper bound values). Based on the hydrographs from wells along the river presented in Figure ATT3-4, hydraulic gradients in the aquifer are relatively constant over time. With the exception of large changes in the river level (over 10 feet), these wells respond to river level fluctuation in the subdued manner.

4. The hydraulic conductivity (K) was estimated for each segment using the results of constant rate tests performed at five extraction wells installed in the Black Creek Aquifer upstream of the river frontage (Geosyntec, 2021). The extraction wells used to determine the hydraulic conductivity for each segment are as follows, based on their locations relative to the segments (Figure ATT 3-1):

**Attachment ATT3: Supporting Calculations – Onsite
Groundwater Pathway**

Extraction Well	Segment
EW-1	1
	2
EW-4	3
	4
EW-5	5
	6
EW-2	7
EW-3	8
	9

- The total PFAS concentration for each segment was determined based on grab samples collected from the primary groundwater monitoring wells. PFAS analytical results for these groundwater samples are presented in Table A6 in Appendix A and in Table ATT1-12 in Attachment ATT1.
- Mass flux for each segment, representing the PFAS mass loading to the river from groundwater, was determined as follows:

$$Q = lhKiCf$$

where,

Q = the mass flux [mg/sec];

l = the segment length [ft];

h = the Black Creek Aquifer thickness [ft];

K = the hydraulic conductivity of the aquifer [ft/sec];

i = the hydraulic gradient [ft/ft], using an upper and lower contour elevation difference;

C = the total PFAS concentration [ng/L]; and

f = the conversion factor between cubic feet and liters and between ng and mg.

The mass flux is interpreted as zero for segments where a negative hydraulic gradient was computed (i.e., groundwater flow is moving away from the river). Parameters listed above were used to estimate groundwater flow rates, shown in Table ATT3-2.

Sensitivity Assessment

As described in Section 5.1 of Appendix A, the mass discharge calculations only accounted for mass discharge from the Black Creek Aquifer and did not include mass discharge from the Floodplain Deposits. As a result, a sensitivity assessment was performed on the mass discharge from the Floodplains Deposits using the data collected in Q4 2024. The methodology was the same

Attachment ATT3: Supporting Calculations – Onsite Groundwater Pathway

as the one used to estimate the mass discharge from the Black Creek Aquifer (see section above) with the following adjustments:

- The hydraulic conductivity of the Floodplain Deposits was assumed to be 3.2×10^{-4} centimeters per second (cm/s).
- The cross-sectional area from Segment #8 was grouped with Segment #7 because there are no wells in Segment #8 that are screened above the Black Creek Aquifer.
- No mass discharge was calculated from Segment #9 because a cross-sectional area of Floodplain Deposits was not interpreted within Segment #9 and there are no wells in this segment that are screened above the Black Creek Aquifer.

Supporting data for the sensitivity assessment are provided in Table ATT3-3. A detailed discussion of the results is provided in Section 5.1 of Appendix A. The results from the sensitivity assessment show that the mass discharge from the Floodplain Deposits continues to not have a meaningful impact to the results of the mass loading model.

Potential Future Methodology Modifications

The groundwater flows in the Black Creek Aquifer have changed due to the implementation of the groundwater extraction system and the barrier wall construction remedy. Adjustments to this calculation methodology were made since Q2 2023 and may be required in future assessments based on changes in conditions or refinement of Site knowledge.

References

- Geosyntec, 2019. Corrective Action Plan. Chemours Fayetteville Works. December 2019.
- Geosyntec, 2021. Cape Fear River PFAS Mass Loading Assessment – Fourth Quarter 2020 Report, Chemours Fayetteville Works. March 31, 2021.

**TABLE ATT3-1
ONSITE GROUNDWATER PATHWAY SUPPORTING DATA
Chemours Fayetteville Works, North Carolina**

Segment	Primary Well	Sample Date	Segment Length (ft)	Cross-sectional Area of Black Creek Aquifer ¹ (ft ²)	Average Thickness of Black Creek Aquifer (ft)	Secondary Paired Well ²	Difference in Hydraulic Head ³ (ft)	Difference in Distance (ft)	Hydraulic Gradient (ft/ft)	Hydraulic Conductivity ⁴ (ft/sec)	Total Attachment C ⁵		Total Table 3+ (17 Compounds) ⁶		Total Table 3+ (18 Compounds) ⁷		Total Table 3+ (21 Compounds)	
											Concentration ⁷ (ng/L)	Mass Loading ⁸ (mg/s)	Concentration ⁷ (ng/L)	Mass Loading ⁸ (mg/s)	Concentration ¹ (ng/L)	Mass Loading (mg/s)	Concentration ⁷ (ng/L)	Mass Loading ⁸ (mg/s)
1	PIW-1D	10/8/2024	1,150	13,400	11.7	OW-14	-1.54	305.47	0.0050	1.71E-04	18,000	0.0059	18,000	0.0059	23,000	0.0075	23,000	0.0075
2	PIW-3D	10/8/2024	873	11,010	12.6	OW-44	-0.96	351.79	0.0027	1.71E-04	76,000	0.0110	76,000	0.0110	93,000	0.0135	95,000	0.0138
3	LTW-02	10/8/2024	875	5,560	6.4	OW-45	-0.22	399.66	0.0006	1.02E-04	100,000	0.0009	110,000	0.0010	130,000	0.0011	130,000	0.0011
4	LTW-03	10/10/2024	729	2,800	3.9	OW-46	-1.72	510.17	0.0034	1.02E-04	150,000	0.0041	150,000	0.0041	190,000	0.0052	190,000	0.0052
5	PZ-22	10/9/2024	656	15,200	23.2	OW-22	-0.35	370.47	0.0009	3.28E-04	100,000	0.0134	100,000	0.0134	140,000	0.0187	140,000	0.0187
6	PIW-7D	10/10/2024	524	16,000	30.5	OW-48	0.20	331.98	0	3.28E-04	89,000	0	90,000	0	120,000	0	120,000	0
7	LTW-05	10/9/2024	672	11,800	19.4	OW-25	-0.44	398.47	0.0011	1.28E-04	120,000	0.0063	120,000	0.0063	170,000	0.0089	170,000	0.0089
8	OW-28	10/8/2024	594	15,500	26.0	OW-27	-0.24	216.60	0.0011	2.59E-04	15,000	0.0019	15,000	0.0019	19,000	0.0024	19,000	0.0024
9	OW-33	10/8/2024	1607	46,300	28.8	OW-30	0.30	297.99	0	2.59E-04	27,000	0	27,000	0	34,000	0	35,000	0
Total											--	0.0434	--	0.0435	--	0.0574	--	0.0576

Notes

1 - Cross sectional areas were determined using the three-dimensional hydrostratigraphic model of the Site, constructed using CTech's Earth Volumetric Studio (EVS) software (Figure ATT3-2).

2 - Second paired well is east of the Barrier Wall remedy and west of the primary well.

3 - Groundwater elevation difference for hydraulic gradient based on water levels measured on October 02, 2024 (Figure ATT3-3).

4 - Hydraulic conductivity values are based on constant rate pumping test results from extraction wells described in Attachment ATT3.

5 - Attachment C does not include Perfluorohexanoic acid (PFHpA).

6 - Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, R-EVE, and PFPrA.

7 - Total Table 3+ (18 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, and R-EVE.

8 - Detailed PFAS Concentrations provided in Appendix A.

9 - A value of zero represents a negative mass loading value (i.e., computed negative gradient).

-- not applicable

ft - feet

ft/sec - feet per second

ft² - square feet

mg/s - milligrams per second

ng/L - nanograms per liter

TABLE ATT3-2
OCOTBER 2024 ONSITE GROUNDWATER FLOW RATE
Chemours Fayetteville Works, North Carolina

Segment	Cross-sectional Area of Black Creek Aquifer ¹ (ft ²)	Hydraulic Gradient ^{1,2} (ft/ft)	Hydraulic Conductivity (ft/sec) ¹	Flow Upper Bound (ft ³ /sec)	Flow Upper Bound (gal /day)
1	13,400	0.0050	1.71E-04	1.15E-02	7,438
2	11,010	0.0027	1.71E-04	5.13E-03	3,313
3	5,560	0.0006	1.02E-04	3.11E-04	201
4	2,800	0.0034	1.02E-04	9.71E-04	627
5	15,200	0.0009	3.28E-04	4.72E-03	3,053
6	16,000	0	3.28E-04	0	0
7	11,800	0.0011	1.28E-04	1.66E-03	1,074
8	15,500	0.0011	2.59E-04	4.44E-03	2,869
9	46,300	0	2.59E-04	0	0
				0.029	18,576

Notes

1 - Supporting data for cross-sectional area, hydraulic gradient, and hydraulic conductivity provided in Table ATT3-1.

2 - Hydraulic gradient based on water levels measured on October 02, 2024 (Figure ATT3-3).

ft - feet

ft² - square feet

ft/sec - feet per second

ft³/sec - cubic feet per second

gal/day - gallons per day

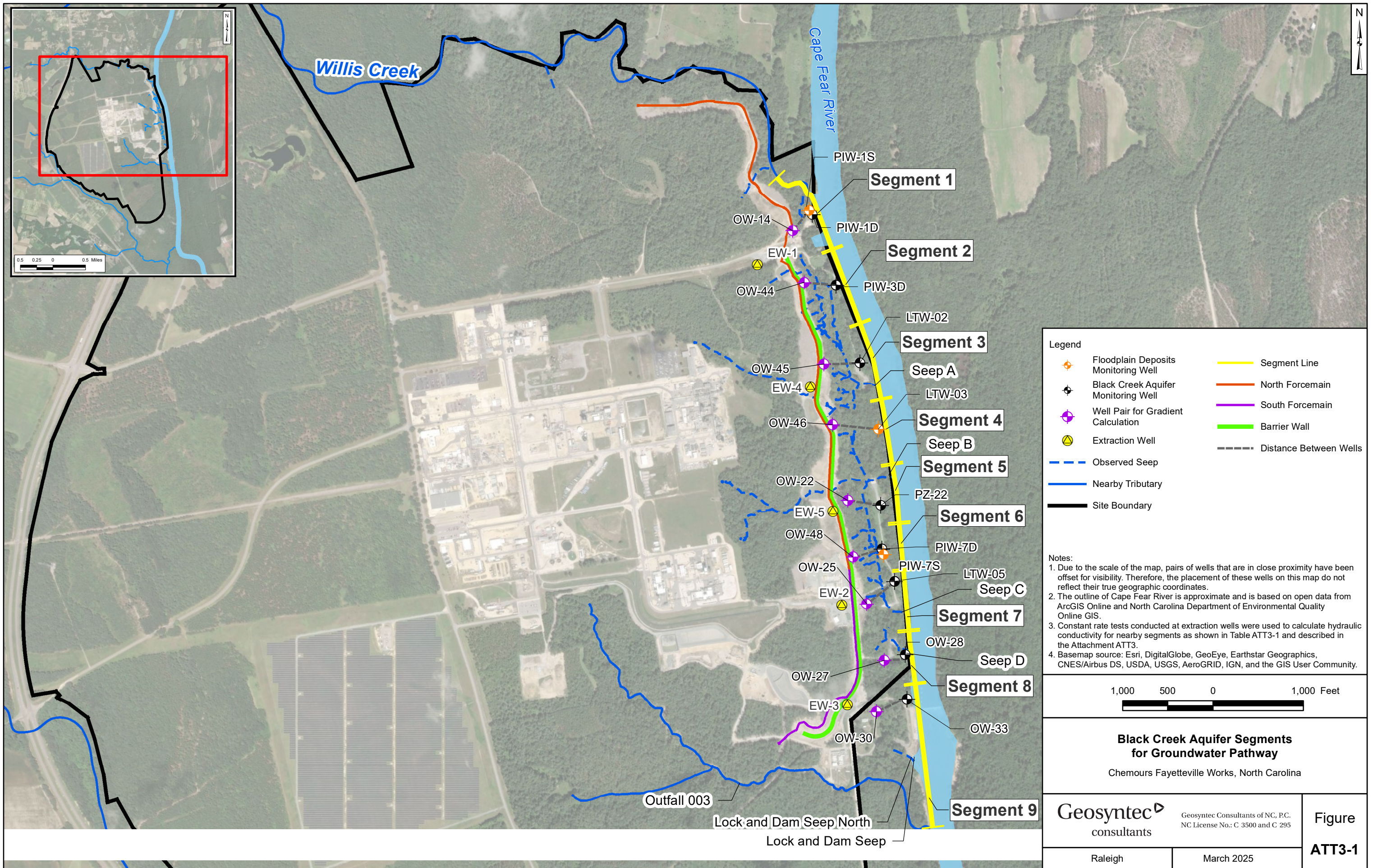
**TABLE ATT3-3
ONSITE GROUDWATER PATHWAY SENSITIVITY ASSESSMENT - FLOODPLAIN DEPOSITS
Chemours Fayetteville Works, North Carolina**

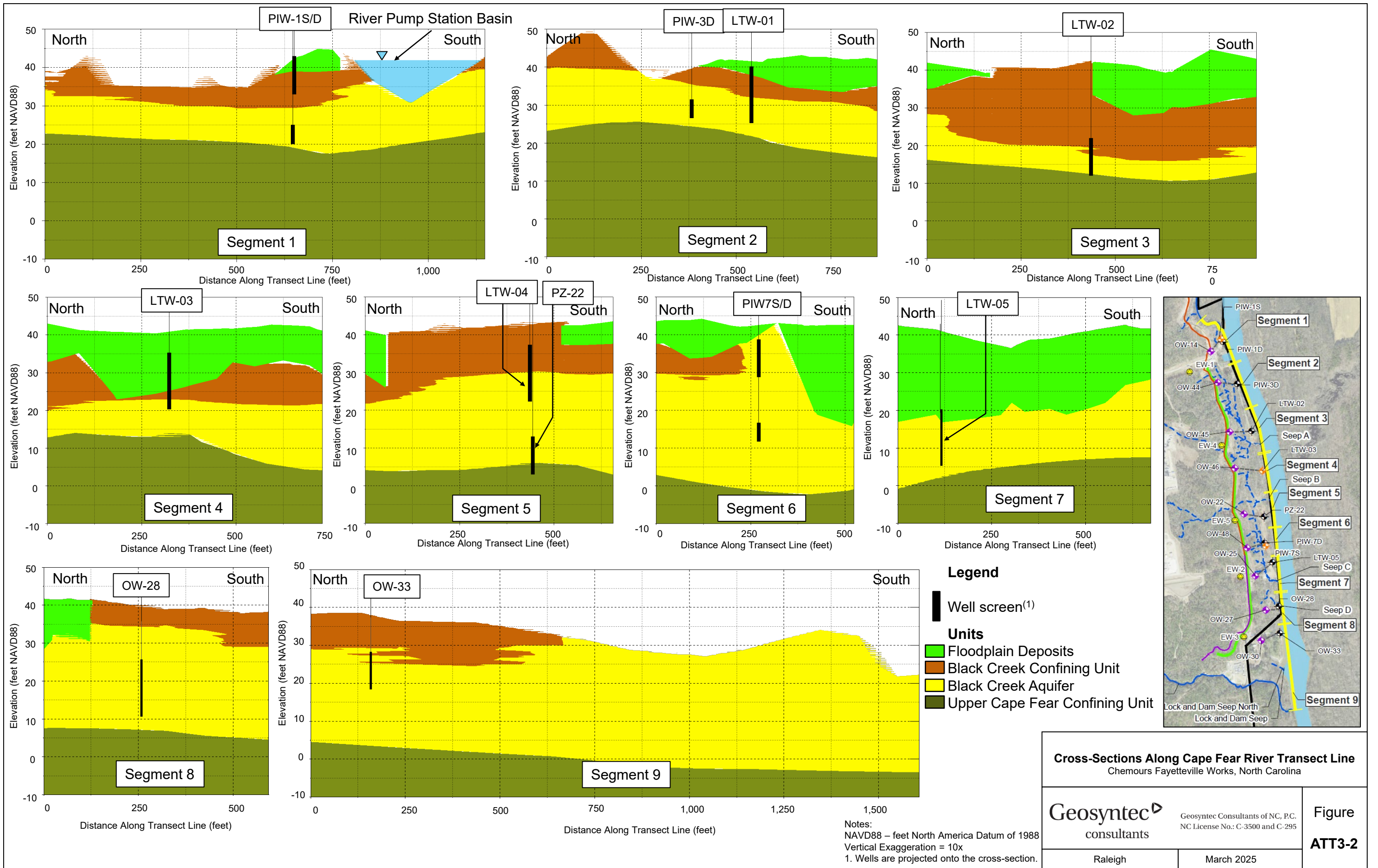
Segment	Primary Well	Sample Date	Segment Length (ft)	Cross-sectional Area of Black Creek Aquifer ¹ (ft ²)	Average Thickness of Black Creek Aquifer (ft)	Secondary Paired Well ²	Difference in Hydraulic Head ³ (ft)	Difference in Distance (ft)	Hydraulic Gradient (ft/ft)	Hydraulic Conductivity ⁴ (ft/sec)	Total Attachment C ⁵		Total Table 3+ (17 Compounds) ⁶		Total Table 3+ (18 Compounds) ⁷		Total Table 3+ (21 Compounds)	
											Concentration ⁷ (ng/L)	Mass Loading ⁸ (mg/s)	Concentration ⁷ (ng/L)	Mass Loading ⁸ (mg/s)	Concentration ¹ (ng/L)	Mass Loading (mg/s)	Concentration ⁷ (ng/L)	Mass Loading ⁸ (mg/s)
1	LTW-01	10/10/2024	1,150	700	0.6	OW-14	-1.54	305.47	0.0050	1.05E-05	43,000	0.0000	43,000	0.0000	50,000	0.0001	51,000	0.0001
2	LTW-01	10/10/2024	873	2,814	3.2	OW-44	-0.96	351.79	0.0027	1.05E-05	43,000	0.0001	43,000	0.0001	50,000	0.0001	51,000	0.0001
3	LTW-02	10/8/2024	875	5,709	6.5	OW-45	-0.22	399.66	0.0006	1.05E-05	100,000	0.0001	110,000	0.0001	130,000	0.0001	130,000	0.0001
4	LTW-03	10/10/2024	729	8,900	12.2	OW-46	-1.72	510.17	0.0034	1.05E-05	150,000	0.0013	150,000	0.0013	190,000	0.0017	190,000	0.0017
5	LTW-04	10/9/2024	656	1,500	2.2	OW-22	-0.35	370.47	0.0009	1.05E-05	100,000	0.0000	100,000	0.0000	140,000	0.0001	140,000	0.0001
6	PIW-7S	10/9/2024	524	5,800	11.0	OW-48	0.20	331.98	0	1.05E-05	25,000	0	25,000	0	32,000	0	33,000	0
7	LTW-05	10/9/2024	1266	14,700	19.4	OW-25	-0.44	398.47	0.0011	1.05E-05	120,000	0.0010	120,000	0.0010	170,000	0.0014	170,000	0.0014
Total											--	0.0026	--	0.0026	--	0.0034	--	0.0034

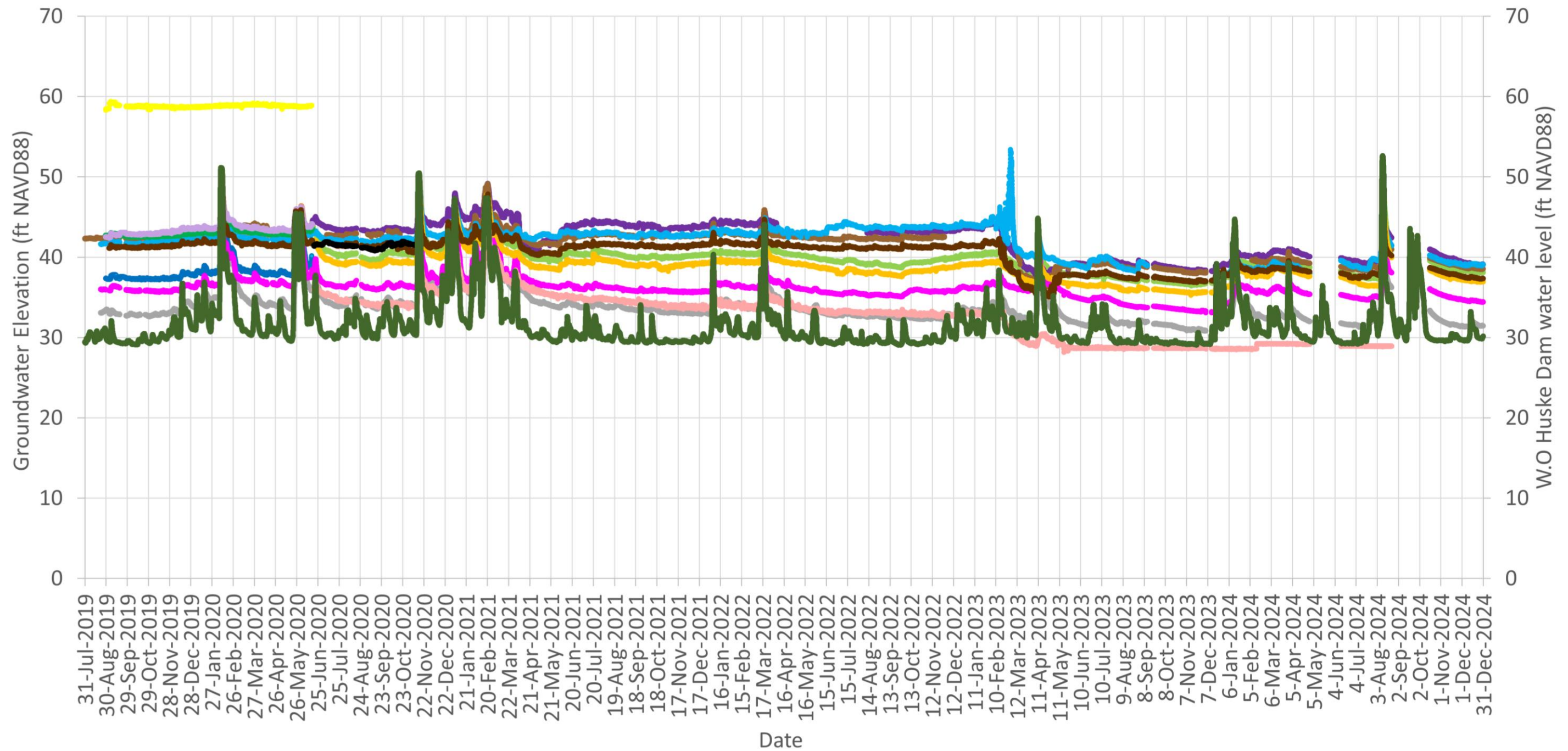
Notes

- 1 - Cross sectional areas were determined using the three-dimensional hydrostratigraphic model of the Site, constructed using CTech's Earth Volumetric Studio (EVS) software (Figure ATT3-2).
- 2 - Second paired well is east of the Barrier Wall remedy and west of the primary well.
- 3 - Groundwater elevation difference for hydraulic gradient based on water levels measured on October 02, 2024 (Figure ATT3-3).
- 4 - Hydraulic conductivity values are based on constant rate pumping test results from extraction wells described in Attachment ATT3.
- 5 - Attachment C does not include Perfluorohexanoic acid (PFHpA).
- 6 - Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, R-EVE, and PFPrA.
- 7 - Total Table 3+ (18 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, and R-EVE.
- 8 - Detailed PFAS Concentrations provided in Appendix A.
- 9 - A value of zero represents a negative mass loading value (i.e., computed negative gradient).

-- not applicable
 ft - feet
 ft/sec - feet per second
 ft² - square feet
 mg/s - milligrams per second
 ng/L - nanograms per liter







Notes:
 ft - feet
 NAVD88 - North American Vertical Datum of 1988

Hydrograph for Select Onsite Groundwater Monitoring Wells and W.O Huske Dam Chemours Fayetteville Works, North Carolina	
Geosyntec consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295
Raleigh	March 2025

Figure
ATT3-4

Appendix B

Supplemental Tables

**TABLE B1-1
OUTFALL 003 CAPTURED MASS LOAD BY COMPOUND AND TIME INTERVAL - Q4 2024
Chemours Fayetteville Works, North Carolina**

Interval Details					Calculated Captured Mass Load (lbs) ¹																					
Interval ID	Start Time	End Time	Duration (hours)	Total Flow (MG)	HFPO-DA	PFMOAA	PFO2HxA	PF03OA	PFO4DA	PFO5DA	PMPA	PEPA	PS Acid	Hydro-PS Acid	R-PSDA	Hydrolyzed PSDA	R-PSDCA	NVHOS	EVE Acid	Hydro-EVE Acid	R-EVE	PES	PFECA B	PFECA-G	Total Table 3+ (17 compounds) ²	
OF003_2024_Q4_1	10/1/24 0:00	10/31/24 23:59	744	14.8	0.22	0.56	0.26	0.084	0.044	0.020	0.14	0.053	0	0.012	0.010	0.015	0	0.010	0	0.0056	0.0049	0	0	0	0	1.4
OF003_2024_Q4_2	11/1/24 0:00	11/30/24 23:59	720	13.7	0.18	0.57	0.23	0.067	0.036	0.017	0.12	0.041	0	0.011	0	0.019	0	0	0	0.0050	0	0	0	0	0	1.3
OF003_2024_Q4_3	12/1/24 0:00	12/31/24 23:59	744	14.3	0.17	0.60	0.22	0.060	0.034	0.014	0.11	0.045	0	0.0092	0.006	0.016	0	0.010	0	0.0045	0	0	0	0	0	1.3
Total				42.8	0.58	1.7	0.71	0.21	0.11	0.051	0.38	0.14	0	0.032	0.016	0.049	0	0.020	0	0.015	0.0049	0	0	0	0	4.0

Notes:
 1 - The calculated captured mass load is a product of the concentration difference in the influent and the effluent samples and total flow at the influent for the sampling interval.
 2 - Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, R-EVE, and PFPrA.
 Where mass loads are equal to 0 lbs, the compound was not detected above the reporting limit.
 OF003 - previously Old Outfall 002 treatment system
 lbs - pounds
 MG - million gallons

TABLE B1-2
STORMWATER TREATMENT SYSTEM CAPTURED MASS LOAD
BY COMPOUND AND DATE - Q4 2024

Geosyntec Consultants of NC, P.C.

Chemours Fayetteville Works, North Carolina

Date ¹	Total Flow (MG) ²	Calculated Captured Mass Load (lbs) ^{3,4}			
		HFPO-DA	PFMOAA	PMPA	Total of 3 Compounds ⁵
10/7/24	0.06	0.0079	0.0022	0.00045	0.011
11/8/24	0.15	0.024	0.0050	0.0010	0.030
11/14/24	0.12	0.023	0.0035	0.00069	0.027
11/15/24	0.11	0.021	0.0032	0.00064	0.025
11/21/24	0.12	0.036	0.0045	0.0012	0.042
11/27/24	0.08	0.016	0.0020	0.00063	0.019
12/27/24	0.13	0.031	0.0037	0.0010	0.036
12/28/24	0.37	0.086	0.010	0.0028	0.099
12/29/24	0.30	0.069	0.0081	0.0022	0.079
Total	1.4	0.32	0.042	0.011	0.37

Notes:

lbs - pounds

MG - million gallons

1 - Listed dates are days when flow was recorded at the Stormwater Treatment System.

2 - Total daily flows were based on the volume recorded via a totalizer at the Stormwater Treatment System effluent.

3 - The calculated captured mass load is a product of the concentration difference in the influent

4 - For days where only flow was recorded, the concentrations from the closest date were used to calculate mass loads.

5 - Only HFPO-DA, PFMOAA and PMPA are recorded at this location. Thus, the total captured mass load presented here is summed over these three compounds only.

6 - Data presented are based on Monthly Monitoring Reports submitted to the North Carolina Department of Environmental Quality by Chemours.

TABLE B2
SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Location ID	CFR-BLADEN	CFR-KINGS	CFR-MILE-76	CFR-TARHEEL	CFR-TARHEEL	GBC-1	LOCK-DAM NORTH
Field Sample ID	CAP4Q24-CFR-BLADEN-102424	CAP4Q24-CFR-KINGS-102424	CAP4Q24-CFR-RM-76-102324	CAP4Q24-CFR-TARHEEL-102424	CAP4Q24-CFR-TARHEEL-24-102424	CAP4Q24-GBC-1-102324	CAP4Q24-LOCK-DAM-NORTH-102324
Sample Date	10/24/2024	10/24/2024	10/23/2024	10/24/2024	10/24/2024	10/23/2024	10/23/2024
QA/QC							
Sample Delivery Group (SDG)	320-116530-1	320-116530-1	320-116530-1	320-116530-1	320-116573-1	320-116530-1	320-116530-1
Lab Sample ID	320-116530-5	320-116530-7	320-116530-2	320-116530-6	320-116573-1	320-116530-3	320-116530-1
537 Mod (ng/L)							
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<84
11CI-PF3OUdS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<40
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<58
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<30
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<110
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<180
6:2 Fluorotelomer sulfonate	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<310
9CI-PF3ONS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<30
DONA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<50
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<160
N-ethylperfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<110
N-methyl perfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<54
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<150
Perfluorobutane Sulfonic Acid	4.0	3.7	4.3	4.1	4.5	3.1	<25
Perfluorobutanoic Acid	<5.0	5.2	<5.0	<5.0	<5.0	9.5	<300
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<40
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<39
Perfluorododecane Sulfonic Acid (PFDoS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<120
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<69
Perfluoroheptane Sulfonic Acid (PFHpS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<24
Perfluoroheptanoic Acid	2.6	2.5	2.7	2.5	2.8	<2.0	<31
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<110
Perfluorohexane Sulfonic Acid	5.5	4.8	5.5	5.5	5.4	<2.0	<71
Perfluorohexanoic Acid	4.9	4.3	4.8	4.7	6.0	2.2	<73
Perfluorononanesulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<46
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<34
Perfluorooctadecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<120
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<120
Perfluoropentane Sulfonic Acid (PFPeS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<38
Perfluoropentanoic Acid	4.9	4.0	4.1	4.7	5.9	5.8	110
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<91
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<160
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<140
PFOA	6.9	6.4	6.7	6.7	6.3	3.5	<110
PFOS	12	11	12	11	12	<2.0	<68

**TABLE B2
SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	LOCK-DAM SEEP	OLDOF-2	OUTFALL 002	RIVER WATER INTAKE 2	WC-1	WC-1	WC-2
Field Sample ID	CAP4Q24-LOCK-DAM-SEEP-102324	CAP4Q24-OLDOF-1-24-102424	CAP4Q24-OUTFALL-002-24-102424	RIVER-WATER-INTAKE-24-102424	CAP4Q24-WC-1-24-102424	CAP4Q24-WC-1-24-102424-D	CAP3Q24-WC-2-24-071124
Sample Date	10/23/2024	10/24/2024	10/24/2024	10/24/2024	10/24/2024	10/24/2024	7/11/2024
QA/QC						Field Duplicate	
Sample Delivery Group (SDG)	320-116513-1	320-116525-1	320-116525-1	320-116530-1	320-116513-1	320-116513-1	320-113748-1
Lab Sample ID	320-116513-4	320-116525-4	320-116525-3	320-116530-4	320-116513-2	320-116513-3	320-113748-1
537 Mod (ng/L)							
10:2 Fluorotelomer sulfonate	<84	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<40	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<58	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<30	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<110	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<180	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
6:2 Fluorotelomer sulfonate	<310	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
9Cl-PF3ONS	<30	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
DONA	<50	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<160	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
N-ethylperfluoro-1-octanesulfonamide	<110	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<54	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<150	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorobutane Sulfonic Acid	<25	<2.0	4.5	4.8	8.3	9.8	8.5
Perfluorobutanoic Acid	<300	<5.0	6.1	14	8.0	7.5	6.8
Perfluorodecane Sulfonic Acid	<40	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorodecanoic Acid	<39	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<120	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<69	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<24	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	55	2.1	2.9	2.7	<2.0	2.2	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<110	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<71	<2.0	5.2	4.9	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<73	<2.0	5.1	4.5	4.4	4.2	4.0
Perfluorononanesulfonic Acid	<46	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<34	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<120	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<120	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<38	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	260	8.4	6.0	4.5	7.7	9.3	6.3
Perfluorotetradecanoic Acid	<91	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<160	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<140	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFOA	<110	3.1	7.5	6.8	7.0	6.7	4.2
PFOS	<68	<2.0	11	7.6	<2.0	<2.0	<2.0

**TABLE B2
SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	WC-3	EB	EB
Field Sample ID	CAP3Q24-WC-3-24-071124	CAP4Q24-EQBLK-IS-102424	CAP4Q24-EQBLK-PP-SW-102424
Sample Date	7/11/2024	10/24/2024	10/24/2024
QA/QC		Equipment Blank	Equipment Blank
Sample Delivery Group (SDG)	320-113747-1	320-116525-1	320-116525-1
Lab Sample ID	320-113747-5	320-116525-1	320-116525-2
537 Mod (ng/L)			
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.0	<2.0	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4.0	<4.0	<4.0
6:2 Fluorotelomer sulfonate	<5.0	<5.0	<5.0
9Cl-PF3ONS	<2.0	<2.0	<2.0
DONA	<2.0	<2.0	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0
N-ethylperfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0
Perfluorobutane Sulfonic Acid	7.3	<2.0	<2.0
Perfluorobutanoic Acid	5.5	<5.0	<5.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0
Perfluorodecanoic Acid	<2.0	<2.0	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	<2.0	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	3.2	<2.0	<2.0
Perfluorononanesulfonic Acid	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	5.2	<2.0	<2.0
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0
PFOA	2.7	<2.0	<2.0
PFOS	<2.0	<2.0	<2.0

Notes:

- Bold - Analyte detected above associated reporting limit
- J - Analyte detected. Reported value may not be accurate or precise.
- B - Analyte detected in an associated blank
- ng/L - nanograms per liter
- QA/QC - Quality assurance/ quality control
- < - Analyte not detected above associated reporting limit.
- - Not measured / Not Applicable
- QA/QC - Quality assurance/ quality control
- < - Analyte not detected above associated reporting limit.
- - Not measured / Not Applicable

**TABLE B3
FLOW SUMMARY FOR CAPE FEAR RIVER LOCATIONS
Chemours Fayetteville Works, North Carolina**

Q4 2024 Quarterly Event	Pathway/ Location	Sample Collection Timepoint	Flow Gauging Location¹	Travel Time Offset (hr)²	Adjusted Flow Gauging Timepoint	Composite Sample 24 Hour Flow Volume (MGD)³	Grab Sample Instantaneous Flow Rate (ft³/s)⁴
October 2024	Upstream River Water and Groundwater	10/23/24 9:05	William O Huske Lock and Dam	--	10/23/24 9:05	--	1,271
	Tarheel (Grab Sample)	10/24/24 9:50	William O Huske Lock and Dam	13	10/23/2024 20:45	--	1,290
	Tarheel (Composite Sample)	10/24/24 23:24	William O Huske Lock and Dam	12	10/24/2024 11:00	830	--
	Bladen Bluff	10/24/24 9:15	William O Huske Lock and Dam	8	10/24/2024 0:45	--	1,270
	Kings Bluff	10/24/24 12:15	Cape Fear River Lock and Dam #1	--	10/24/24 12:15	--	1,410

Notes:

- 1 - Flow rate measured at USGS gauging station #02105500 located at William O Huske Lock & Dam and USGS gauging station # 02105769 located at Lock and Dam #1 near Kelly, North Carolina.
- 2 - Flow rates measured at William O Huske Lock and Dam were used for mass loading assessments at Tar heel and Bladen Bluff sample locations. Travel times between William O Huske Lock and Dam and the downstream locations were estimated based on the results of a numerical model of the Cape Fear River developed by Geosyntec which developed a regression curve between the USGS reported gage heights at William O Huske Lock and Dam and travel times.
- 3 - Total flow volume for composite samples is based on measurements taken over 24-hour sample collection period.
- 4 - Instantaneous flow rate for grab samples is the recorded flow rate at the time of grab sample collection.

Acronyms:

- ft³/s - cubic feet per second
- hr - hours
- MGD - millions of gallons per day

TABLE B4
FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC
Chemours Fayetteville Works, North Carolina

Date and Time	Flow Rate (ft³/sec)	Flow Volume (gal)	Gage Height (ft)	Precipitation (in)¹
10/23/2024 0:00	1280	8,617,536	1.58	0
10/23/2024 0:15	1280	8,617,536	1.58	0
10/23/2024 0:30	1280	8,617,536	1.58	0
10/23/2024 0:45	1280	8,617,536	1.58	0
10/23/2024 1:00	1280	8,617,536	1.58	0
10/23/2024 1:15	1280	8,617,536	1.58	0
10/23/2024 1:30	1280	8,617,536	1.58	0
10/23/2024 1:45	1280	8,617,536	1.58	0
10/23/2024 2:00	1280	8,617,536	1.58	0
10/23/2024 2:15	1280	8,617,536	1.58	0
10/23/2024 2:30	1280	8,617,536	1.58	0
10/23/2024 2:45	1280	8,617,536	1.58	0
10/23/2024 3:00	1290	8,684,860	1.59	0
10/23/2024 3:15	1290	8,684,861	1.59	0
10/23/2024 3:30	1280	8,617,536	1.58	0
10/23/2024 3:45	1290	8,684,860	1.59	0
10/23/2024 4:00	1290	8,684,861	1.59	0
10/23/2024 4:15	1290	8,684,860	1.59	0
10/23/2024 4:30	1290	8,684,860	1.59	0
10/23/2024 4:45	1280	8,617,536	1.58	0
10/23/2024 5:00	1290	8,684,860	1.59	0
10/23/2024 5:15	1280	8,617,536	1.58	0
10/23/2024 5:30	1280	8,617,536	1.58	0
10/23/2024 5:45	1280	8,617,536	1.58	0
10/23/2024 6:00	1290	8,684,860	1.59	0
10/23/2024 6:15	1290	8,684,861	1.59	0
10/23/2024 6:30	1290	8,684,860	1.59	0
10/23/2024 6:45	1290	8,684,860	1.59	0
10/23/2024 7:00	1290	8,684,861	1.59	0
10/23/2024 7:15	1290	8,684,860	1.59	0
10/23/2024 7:30	1290	8,684,860	1.59	0
10/23/2024 7:45	1290	8,684,861	1.59	0
10/23/2024 8:00	1290	8,684,860	1.59	0
10/23/2024 8:15	1290	8,684,860	1.59	0
10/23/2024 8:30	1290	8,684,861	1.59	0
10/23/2024 8:45	1290	8,684,860	1.59	0
10/23/2024 9:00	1290	8,684,860	1.59	0
10/23/2024 9:15	1290	8,684,861	1.59	0
10/23/2024 9:30	1290	8,684,860	1.59	0
10/23/2024 9:45	1290	8,684,860	1.59	0
10/23/2024 10:00	1290	8,684,861	1.59	0
10/23/2024 10:15	1290	8,684,860	1.59	0
10/23/2024 10:30	1290	8,684,860	1.59	0
10/23/2024 10:45	1290	8,684,861	1.59	0
10/23/2024 11:00	1290	8,684,860	1.59	0
10/23/2024 11:15	1290	8,684,860	1.59	0
10/23/2024 11:30	1310	8,819,510	1.6	0
10/23/2024 11:45	1310	8,819,509	1.6	0
10/23/2024 12:00	1310	8,819,509	1.6	0
10/23/2024 12:15	1310	8,819,510	1.6	0
10/23/2024 12:30	1310	8,819,509	1.6	0
10/23/2024 12:45	1310	8,819,509	1.6	0

TABLE B4
FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC
Chemours Fayetteville Works, North Carolina

Date and Time	Flow Rate (ft³/sec)	Flow Volume (gal)	Gage Height (ft)	Precipitation (in)¹
10/23/2024 13:00	1310	8,819,510	1.6	0
10/23/2024 13:15	1320	8,886,834	1.61	0
10/23/2024 13:30	1320	8,886,834	1.61	0
10/23/2024 13:45	1320	8,886,834	1.61	0
10/23/2024 14:00	1320	8,886,834	1.61	0
10/23/2024 14:15	1320	8,886,834	1.61	0
10/23/2024 14:30	1320	8,886,834	1.61	0
10/23/2024 14:45	1320	8,886,834	1.61	0
10/23/2024 15:00	1320	8,886,834	1.61	0
10/23/2024 15:15	1320	8,886,834	1.61	0
10/23/2024 15:30	1320	8,886,834	1.61	0
10/23/2024 15:45	1320	8,886,834	1.61	0
10/23/2024 16:00	1320	8,886,834	1.61	0
10/23/2024 16:15	1320	8,886,834	1.61	0
10/23/2024 16:30	1310	8,819,509	1.6	0
10/23/2024 16:45	1320	8,886,834	1.61	0
10/23/2024 17:00	1310	8,819,509	1.6	0
10/23/2024 17:15	1310	8,819,509	1.6	0
10/23/2024 17:30	1310	8,819,510	1.6	0
10/23/2024 17:45	1310	8,819,509	1.6	0
10/23/2024 18:00	1310	8,819,509	1.6	0
10/23/2024 18:15	1290	8,684,861	1.59	0
10/23/2024 18:30	1290	8,684,860	1.59	0
10/23/2024 18:45	1290	8,684,860	1.59	0
10/23/2024 19:00	1290	8,684,861	1.59	0
10/23/2024 19:15	1280	8,617,536	1.58	0
10/23/2024 19:30	1290	8,684,860	1.59	0
10/23/2024 19:45	1280	8,617,536	1.58	0
10/23/2024 20:00	1280	8,617,536	1.58	0
10/23/2024 20:15	1280	8,617,536	1.58	0
10/23/2024 20:30	1290	8,684,861	1.59	0
10/23/2024 20:45	1290	8,684,860	1.59	0
10/23/2024 21:00	1280	8,617,536	1.58	0
10/23/2024 21:15	1280	8,617,536	1.58	0
10/23/2024 21:30	1280	8,617,536	1.58	0
10/23/2024 21:45	1280	8,617,536	1.58	0
10/23/2024 22:00	1280	8,617,536	1.58	0
10/23/2024 22:15	1280	8,617,536	1.58	0
10/23/2024 22:30	1280	8,617,536	1.58	0
10/23/2024 22:45	1280	8,617,536	1.58	0
10/23/2024 23:00	1280	8,617,536	1.58	0
10/23/2024 23:15	1280	8,617,536	1.58	0
10/23/2024 23:30	1280	8,617,536	1.58	0
10/23/2024 23:45	1280	8,617,536	1.58	0
10/24/2024 0:00	1280	8,617,536	1.58	0
10/24/2024 0:15	1280	8,617,536	1.58	0
10/24/2024 0:30	1280	8,617,536	1.58	0
10/24/2024 0:45	1270	8,550,211	1.57	0
10/24/2024 1:00	1280	8,617,536	1.58	0
10/24/2024 1:15	1270	8,550,211	1.57	0
10/24/2024 1:30	1280	8,617,536	1.58	0
10/24/2024 1:45	1280	8,617,536	1.58	0

TABLE B4
FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC
Chemours Fayetteville Works, North Carolina

Date and Time	Flow Rate (ft³/sec)	Flow Volume (gal)	Gage Height (ft)	Precipitation (in)¹
10/24/2024 2:00	1270	8,550,211	1.57	0
10/24/2024 2:15	1280	8,617,536	1.58	0
10/24/2024 2:30	1270	8,550,212	1.57	0
10/24/2024 2:45	1280	8,617,536	1.58	0
10/24/2024 3:00	1280	8,617,536	1.58	0
10/24/2024 3:15	1280	8,617,536	1.58	0
10/24/2024 3:30	1270	8,550,211	1.57	0
10/24/2024 3:45	1280	8,617,536	1.58	0
10/24/2024 4:00	1270	8,550,212	1.57	0
10/24/2024 4:15	1280	8,617,536	1.58	0
10/24/2024 4:30	1280	8,617,536	1.58	0
10/24/2024 4:45	1280	8,617,536	1.58	0
10/24/2024 5:00	1270	8,550,211	1.57	0
10/24/2024 5:15	1270	8,550,211	1.57	0
10/24/2024 5:30	1270	8,550,212	1.57	0
10/24/2024 5:45	1270	8,550,211	1.57	0
10/24/2024 6:00	1270	8,550,211	1.57	0
10/24/2024 6:15	1270	8,550,212	1.57	0
10/24/2024 6:30	1270	8,550,211	1.57	0
10/24/2024 6:45	1270	8,550,211	1.57	0
10/24/2024 7:00	1270	8,550,212	1.57	0
10/24/2024 7:15	1270	8,550,211	1.57	0
10/24/2024 7:30	1270	8,550,211	1.57	0
10/24/2024 7:45	1270	8,550,212	1.57	0
10/24/2024 8:00	1270	8,550,211	1.57	0
10/24/2024 8:15	1270	8,550,211	1.57	0
10/24/2024 8:30	1270	8,550,212	1.57	0
10/24/2024 8:45	1270	8,550,211	1.57	0
10/24/2024 9:00	1270	8,550,211	1.57	0
10/24/2024 9:15	1280	8,617,536	1.58	0
10/24/2024 9:30	1270	8,550,211	1.57	0
10/24/2024 9:45	1270	8,550,211	1.57	0
10/24/2024 10:00	1280	8,617,536	1.58	0
10/24/2024 10:15	1280	8,617,536	1.58	0
10/24/2024 10:30	1280	8,617,536	1.58	0
10/24/2024 10:45	1280	8,617,536	1.58	0
10/24/2024 11:00	1280	8,617,536	1.58	0
10/24/2024 11:15	1290	8,684,860	1.59	0
10/24/2024 11:30	1290	8,684,861	1.59	0
10/24/2024 11:45	1290	8,684,860	1.59	0
10/24/2024 12:00	1280	8,617,536	1.58	0
10/24/2024 12:15	1310	8,819,510	1.6	0
10/24/2024 12:30	1290	8,684,860	1.59	0
10/24/2024 12:45	1310	8,819,509	1.6	0
10/24/2024 13:00	1310	8,819,510	1.6	0
10/24/2024 13:15	1290	8,684,860	1.59	0
10/24/2024 13:30	1290	8,684,860	1.59	0
10/24/2024 13:45	1290	8,684,861	1.59	0
10/24/2024 14:00	1310	8,819,509	1.6	0
10/24/2024 14:15	1310	8,819,509	1.6	0
10/24/2024 14:30	1310	8,819,510	1.6	0
10/24/2024 14:45	1310	8,819,509	1.6	0

TABLE B4
FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC
Chemours Fayetteville Works, North Carolina

Date and Time	Flow Rate (ft ³ /sec)	Flow Volume (gal)	Gage Height (ft)	Precipitation (in) ¹
10/24/2024 15:00	1290	8,684,860	1.59	0
10/24/2024 15:15	1290	8,684,861	1.59	0
10/24/2024 15:30	1290	8,684,860	1.59	0
10/24/2024 15:45	1290	8,684,860	1.59	0
10/24/2024 16:00	1290	8,684,861	1.59	0
10/24/2024 16:15	1290	8,684,860	1.59	0
10/24/2024 16:30	1280	8,617,536	1.58	0
10/24/2024 16:45	1280	8,617,536	1.58	0
10/24/2024 17:00	1280	8,617,536	1.58	0
10/24/2024 17:15	1290	8,684,860	1.59	0
10/24/2024 17:30	1280	8,617,536	1.58	0
10/24/2024 17:45	1270	8,550,211	1.57	0
10/24/2024 18:00	1270	8,550,211	1.57	0
10/24/2024 18:15	1270	8,550,212	1.57	0
10/24/2024 18:30	1270	8,550,211	1.57	0
10/24/2024 18:45	1250	8,415,562	1.56	0
10/24/2024 19:00	1250	8,415,563	1.56	0
10/24/2024 19:15	1250	8,415,562	1.56	0
10/24/2024 19:30	1250	8,415,562	1.56	0
10/24/2024 19:45	1250	8,415,563	1.56	0
10/24/2024 20:00	1250	8,415,562	1.56	0
10/24/2024 20:15	1250	8,415,562	1.56	0
10/24/2024 20:30	1250	8,415,563	1.56	0
10/24/2024 20:45	1250	8,415,562	1.56	0
10/24/2024 21:00	1250	8,415,562	1.56	0
10/24/2024 21:15	1250	8,415,563	1.56	0
10/24/2024 21:30	1250	8,415,562	1.56	0
10/24/2024 21:45	1250	8,415,562	1.56	0
10/24/2024 22:00	1240	8,348,238	1.55	0
10/24/2024 22:15	1250	8,415,562	1.56	0
10/24/2024 22:30	1250	8,415,562	1.56	0
10/24/2024 22:45	1240	8,348,238	1.55	0
10/24/2024 23:00	1250	8,415,562	1.56	0
10/24/2024 23:15	1240	8,348,238	1.55	0
10/24/2024 23:30	1250	8,415,563	1.56	0
10/24/2024 23:45	1250	8,415,563	1.56	0

Notes

Measurements are recorded from the USGS flow gauging station at the W.O. Huske Dam, ID 02105500 (USGS, 2021).

1 - The minimum value recorded by a USGS raingage is 0.01 inches. Anything detected below this threshold is recorded as zero inches.

ft³/sec - cubic feet per second

ft - feet

gal - gallons

in - inches

USGS - United States Geological Survey

TABLE B5
FLOW DATA FOR LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	Time	Discharge (cubic ft/sec)	Seconds	Volume (gal)
10/24/2024	0:00	1,410	900	9,492,754
10/24/2024	0:15	1,410	900	9,492,755
10/24/2024	0:30	1,410	900	9,492,754
10/24/2024	0:45	1,400	900	9,425,430
10/24/2024	1:00	1,400	900	9,425,430
10/24/2024	1:15	1,400	900	9,425,430
10/24/2024	1:30	1,400	900	9,425,430
10/24/2024	1:45	1,400	900	9,425,430
10/24/2024	2:00	1,410	900	9,492,754
10/24/2024	2:15	1,400	900	9,425,430
10/24/2024	2:30	1,400	900	9,425,430
10/24/2024	2:45	1,400	900	9,425,430
10/24/2024	3:00	1,400	900	9,425,430
10/24/2024	3:15	1,400	900	9,425,430
10/24/2024	3:30	1,400	900	9,425,430
10/24/2024	3:45	1,400	900	9,425,430
10/24/2024	4:00	1,410	900	9,492,755
10/24/2024	4:15	1,400	900	9,425,430
10/24/2024	4:30	1,400	900	9,425,430
10/24/2024	4:45	1,400	900	9,425,430
10/24/2024	5:00	1,400	900	9,425,430
10/24/2024	5:15	1,400	900	9,425,430
10/24/2024	5:30	1,400	900	9,425,430
10/24/2024	5:45	1,400	900	9,425,430
10/24/2024	6:00	1,400	900	9,425,430
10/24/2024	6:15	1,380	900	9,290,781
10/24/2024	6:30	1,410	900	9,492,754
10/24/2024	6:45	1,400	900	9,425,430
10/24/2024	7:00	1,380	900	9,290,781
10/24/2024	7:15	1,400	900	9,425,430
10/24/2024	7:30	1,400	900	9,425,430
10/24/2024	7:45	1,400	900	9,425,430
10/24/2024	8:00	1,400	900	9,425,430
10/24/2024	8:15	1,400	900	9,425,430
10/24/2024	8:30	1,400	900	9,425,430
10/24/2024	8:45	1,400	900	9,425,430
10/24/2024	9:00	1,400	900	9,425,430
10/24/2024	9:15	1,400	900	9,425,430
10/24/2024	9:30	1,400	900	9,425,430
10/24/2024	9:45	1,400	900	9,425,430
10/24/2024	10:00	1,400	900	9,425,430
10/24/2024	10:15	1,400	900	9,425,430
10/24/2024	10:30	1,400	900	9,425,430
10/24/2024	10:45	1,410	900	9,492,755
10/24/2024	11:00	1,410	900	9,492,754
10/24/2024	11:15	1,410	900	9,492,754
10/24/2024	11:30	1,440	900	9,694,728
10/24/2024	11:45	1,410	900	9,492,754
10/24/2024	12:00	1,420	900	9,560,079
10/24/2024	12:15	1,410	900	9,492,755
10/24/2024	12:30	1,420	900	9,560,079
10/24/2024	12:45	1,400	900	9,425,430
10/24/2024	13:00	1,420	900	9,560,079

TABLE B5
FLOW DATA FOR LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	Time	Discharge (cubic ft/sec)	Seconds	Volume (gal)
10/24/2024	13:15	1,410	900	9,492,754
10/24/2024	13:30	1,410	900	9,492,754
10/24/2024	13:45	1,420	900	9,560,079
10/24/2024	14:00	1,410	900	9,492,754
10/24/2024	14:15	1,420	900	9,560,079
10/24/2024	14:30	1,410	900	9,492,755
10/24/2024	14:45	1,420	900	9,560,079
10/24/2024	15:00	1,420	900	9,560,079
10/24/2024	15:15	1,440	900	9,694,728
10/24/2024	15:30	1,420	900	9,560,079
10/24/2024	15:45	1,420	900	9,560,079
10/24/2024	16:00	1,410	900	9,492,755
10/24/2024	16:15	1,410	900	9,492,754
10/24/2024	16:30	1,420	900	9,560,079
10/24/2024	16:45	1,410	900	9,492,755
10/24/2024	17:00	1,420	900	9,560,079
10/24/2024	17:15	1,410	900	9,492,754
10/24/2024	17:30	1,410	900	9,492,755
10/24/2024	17:45	1,400	900	9,425,430
10/24/2024	18:00	1,400	900	9,425,430
10/24/2024	18:15	1,400	900	9,425,430
10/24/2024	18:30	1,400	900	9,425,430
10/24/2024	18:45	1,400	900	9,425,430
10/24/2024	19:00	1,400	900	9,425,430
10/24/2024	19:15	1,400	900	9,425,430
10/24/2024	19:30	1,400	900	9,425,430
10/24/2024	19:45	1,380	900	9,290,781
10/24/2024	20:00	1,380	900	9,290,781
10/24/2024	20:15	1,400	900	9,425,430
10/24/2024	20:30	1,400	900	9,425,430
10/24/2024	20:45	1,380	900	9,290,781
10/24/2024	21:00	1,400	900	9,425,430
10/24/2024	21:15	1,380	900	9,290,781
10/24/2024	21:30	1,400	900	9,425,430
10/24/2024	21:45	1,400	900	9,425,430
10/24/2024	22:00	1,380	900	9,290,781
10/24/2024	22:15	1,380	900	9,290,781
10/24/2024	22:30	1,380	900	9,290,781
10/24/2024	22:45	1,380	900	9,290,781
10/24/2024	23:00	1,380	900	9,290,781
10/24/2024	23:15	1,380	900	9,290,781
10/24/2024	23:30	1,380	900	9,290,781
10/24/2024	23:45	1,380	900	9,290,781

Notes

Measurements are recorded from the USGS flow gauging station at Lock #1 near Kelly, ID 02105769 (USGS, 2021).

ft³/sec - cubic feet per second

ft - feet

gal - gallons

USGS - United States Geological Survey

TABLE B6
TABLE 3+ PFAS MASS DISCHARGE AT DOWNSTREAM LOCATIONS
Chemours Fayetteville Works, North Carolina

Pathway Number	--	--	--	--
Pathway Name	Tar Heel Ferry Road Bridge ^{1,2}	Tar Heel Ferry Road Bridge ¹	Bladen Bluff ²	Kings Bluff ²
Flow (MG)	--	830	--	--
Instantaneous Flow (ft ³ /sec)	1,290	--	1,270	1,410
Program	CAP SW Sampling 4Q24	CAP SW Sampling 4Q24	CAP SW Sampling 4Q24	CAP SW Sampling 4Q24
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-BLADEN	CFR-KINGS
Field Sample ID	CAP4Q24-CFR-TARHEEL-102424	CAP4Q24-CFR-TARHEEL-24-102424	CAP4Q24-CFR-BLADEN-102424	CAP4Q24-CFR-KINGS-102424
Sample Date and Time ¹	10/24/2024	10/24/2024	10/24/2024	10/24/2024
Sample Delivery Group (SDG)	320-116530-1	320-116573-1	320-116530-1	320-116530-1
Lab Sample ID	320-116530-6	320-116573-1	320-116530-5	320-116530-7
Sample Type	Grab	Composite	Grab	Grab
<i>Table 3+ Mass Discharge³ (mg/s)</i>				
HFPO-DA	0.24	0.24	0.24	0.23
PFMOAA	0.80	0.55	0.83	1.36
PFO2HxA	0.33	0.36	0.32	0.44
PFO3OA	ND	0.09	0.07	0.09
PFO4DA	ND	ND	ND	ND
PFO5DA	ND	ND	ND	ND
PMPA	0.47	0.55	0.50	0.52
PEPA	0.09	0.09	0.101	0.104
PS Acid	ND	ND	ND	ND
Hydro-PS Acid	ND	ND	ND	ND
R-PSDA	ND	ND	ND	ND
Hydrolyzed PSDA	ND	ND	ND	ND
R-PSDCA	ND	ND	ND	ND
NVHOS, Acid Form	ND	ND	ND	ND
EVE Acid	ND	ND	ND	ND
Hydro-EVE Acid	ND	ND	ND	ND
R-EVE	ND	ND	ND	ND
PES	ND	ND	ND	ND
PFECA B	ND	ND	ND	ND
PFECA-G	ND	ND	ND	ND
PFPrA	1.17	1.09	1.11	1.20
Total Attachment C Mass Discharge^{4,5}	1.94	1.89	2.05	2.75
Total Table 3+ Mass Discharge (17 compounds)^{4,6}	1.94	1.89	2.05	2.75
Total Table 3+ Mass Discharge (18 compounds)^{4,7}	3.10	2.98	3.16	3.95
Total Table 3+ Mass Discharge (21 compounds)⁴	3.65	3.42	3.96	5.99

Notes:

- 1 - A paired composite sample was collected at Tar Heel Ferry Road Bridge on October 24, 2024.
- 2 - Mass discharge values for grab samples collected at Tar Heel Ferry Road Bridge, Bladen Bluff, and Kings Bluff are determined based on instantaneous flow rates.
- 3 - Mass discharge by analyte is calculated based on Table 3+ concentrations in Table 3, and 24-hour flow volumes reported in Table B5.
- 4 - Total PFAS mass discharge is based on the summed Total PFAS concentrations reported in Table 3, which are rounded to two significant figures.
- 5 - Total Attachment C does not include Perfluoroheptanoic acid (PFHpA).
- 6 - Total Table 3+ (17 compounds) does not include Perfluoroheptanoic acid (PFHpA), R-PSDA, Hydrolyzed PSDA, R-EVE, and PFPrA.
- 7 - Total Table 3+ (18 compounds) does not include Perfluoroheptanoic acid (PFHpA), R-PSDA, Hydrolyzed PSDA, and R-EVE.

Bold - Analyte detected above associated reporting limit
SOP - Standard Operating Procedure
mg/s - milligrams per second
ND - Analyte not detected above associated reporting limit.

Appendix C

Field Forms

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-100124	10-01-2024	11:38	10-01-2024	11:38	6.60	5.80	75.40	79.90	88.90	25.65	Light tan with particles	None	--

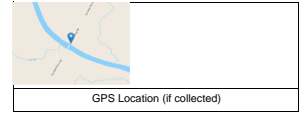
Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS

Temperature (F):	81.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	3

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



Resetting iscos



River level

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-100324	10-03-2024	23:01	10-03-2024	11:39	7.69	5.65	26.00	49.20	219.14	28.01	Clear with particles	None	--


Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS

Temperature (F):	76.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	5

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



GPS Location (if collected)

General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-100724	10-07-2024	23:01	10-07-2024	10:40	6.58	7.82	84.80	62.30	395.33	25.76	Cloudy with particles	No	--

Sampling Data

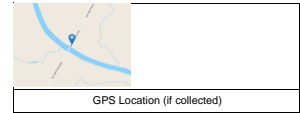
Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS

Temperature (F):	73.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

Latitude:
 Longitude:

Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

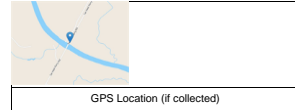
Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
--		0	--	--	--	--	--	--	--	--	--	--	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	75.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	7

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-100924	10-09-2024	23:01	10-09-2024	10:42	8.17	7.70	40.00	47.90	190.27	24.85	Clear with few particles	None	DUP[MS]M SD

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS

Temperature (F):	65.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	3

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



River level



ISCOs

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
--		0	--	--	--	--	--	--	--	--	--	--	--

Sampling Data
 Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	59.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	6

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



GPS Location (if collected)

General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

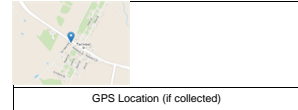
Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-101224	10-12-2024	23:01	10-14-2024	13:27	7.38	3.19	17.30	41.70	1052.50	24.62	Cloudy	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	81.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	4

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



Staff Gauge



ISCO

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

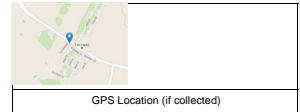
Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-101524	10-15-2024	23:01	10-15-2024	09:18	--	--	--	--	--	--	--	--	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	80.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	2

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

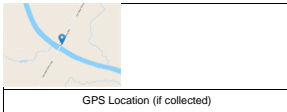
Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-101724	10-17-2024	23:01	10-17-2024	09:11	8.09	7.46	11.30	13.00	885.93	13.95	Clear	None	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	46.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	8

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-102124	10-21-2024	23:01	10-21-2024	10:16	7.54	7.26	180.00	18.90	227.02	16.60	Clear	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	59.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	3

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



GPS Location (if collected)

General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:


Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-102424	10-24-2024	23:01	10-24-2024	10:10	8.52	8.07	22.60	16.15	227.45	21.23	Clear	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	68.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	9

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



GPS Location (if collected)

General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

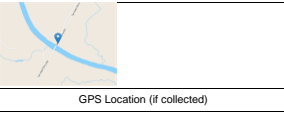
Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-102824	10-28-2024	23:01	10-28-2024	10:30	7.96	9.05	-13.10	22.00	193.19	19.31	Clear with particulates	No	--

Sampling Data
 Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	60.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	4

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-103124	10-31-2024	23:01	10-31-2024	08:54	7.51	9.12	2.30	28.30	413.02	17.12	Clear with particulates	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS

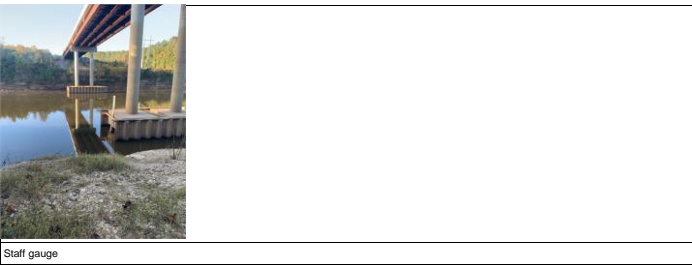
Temperature (F):	55.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	80

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

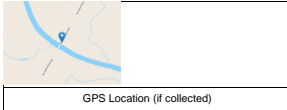
Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-110424	11-04-2024	23:01	11-04-2024	08:57	6.90	--	22.70	10.19	247.01	18.01	Clear	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	56.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

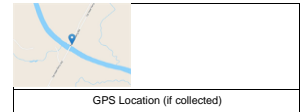
Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-110724	11-07-2024	23:01	11-07-2024	11:25	7.15	7.94	9.90	17.00	255.41	22.73	Clear	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	73.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	3

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:


Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
--		0	--	--	--	--	--	--	--	--	--	--	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	58.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



GPS Location (if collected)

General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-111424	11-14-2024	23:01	11-14-2024	10:55	8.00	6.69	-35.10	31.10	905.95	16.43	Clear with particulates	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS

Temperature (F):	52.00
Sky:	Cloudy
Precipitation:	Rain
Wind (mph)	7

Latitude:
 Longitude:

Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



GPS Location (if collected)

General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-13-111824	11-18-2024	12:01	11-18-2024	10:01	7.81	8.42	-15.00	18.61	179.59	18.36	Clear with particulates	No	--

Sampling Data

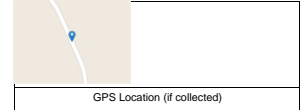
Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS

Temperature (F):	60.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

Latitude:
 Longitude:

Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



Staff gauge



ISCOs

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

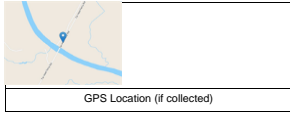
Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-112124	11-21-2024	09:37	11-21-2024	09:37	8.31	10.17	-34.80	22.30	326.42	13.78	Clear with particles	No	

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

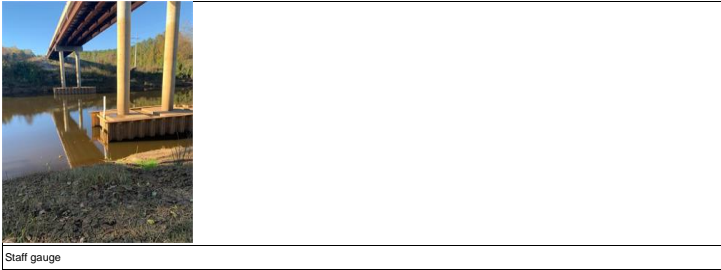
WEATHER CONDITIONS	
Temperature (F):	45.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-112724	11-27-2024	23:01	11-27-2024	10:18	8.34	9.92	-50.90	11.87	394.33	14.66	Clear with particulates	No	--

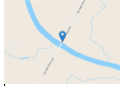
Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS

Temperature (F):	53.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



GPS Location (if collected)

General Comment:

Sampling Comments:



Staff gauge



ISCOs

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

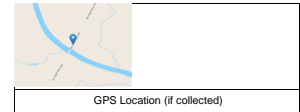
Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-120224	12-02-2024	23:01	12-02-2024	09:30	8.42	10.01	-18.70	8.59	1151.90	10.53	Clear	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

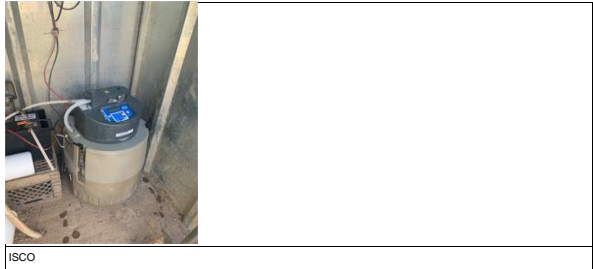
WEATHER CONDITIONS	
Temperature (F):	47.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	7

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:


Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-120524	12-05-2024	23:01	12-05-2024	14:15	8.41	8.45	135.20	10.85	437.40	15.66	Clear	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	61.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	14

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



GPS Location (if collected)

General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:


Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-121024	12-10-2024	23:01	12-10-2024	10:15	8.42	9.29	-25.00	19.51	3661.40	15.32	Clear	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	64.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	6

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



GPS Location (if collected)

General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:


Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-121224	12-12-2024	23:01	12-12-2024	09:15	8.05	11.51	-13.80	12.27	411.30	10.24	Clear	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	36.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	6


Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



GPS Location (if collected)

General Comment:

Sampling Comments:



Staff gauge



ISCO

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-121624	12-16-2024	09:40	12-16-2024	09:40	7.95	9.67	19.70	45.00	1311.90	12.31	Cloudy	No	DUP MS MSD

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

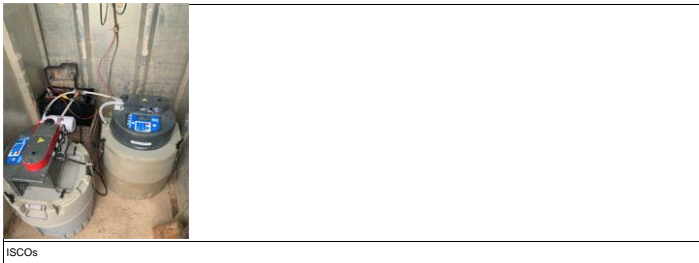
WEATHER CONDITIONS	
Temperature (F):	50.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	3

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
--		0	--	--	--	--	--	--	--	--	--	--	--

Sampling Data
 Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	69.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	6

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-121824	12-18-2024	23:01	12-18-2024	11:06	7.86	8.57	-34.40	34.90	397.39	17.36	Clear with particles	No	--

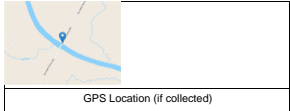
Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS

Temperature (F):	64.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	3

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



Staff gauge



ISCO

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

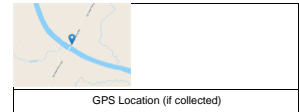
Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
--		0	--	--	--	--	--	--	--	--	--	--	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	55.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	13

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

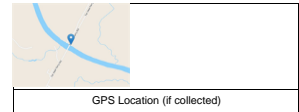
Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-122324	12-23-2024	23:01	12-23-2024	15:33	8.04	11.43	-35.50	15.97	177.67	9.88	Clear	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	45.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	9

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-122624	12-26-2024	23:01	12-26-2024	09:40	8.52	10.38	-19.20	13.90	571.19	8.43	Clear	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

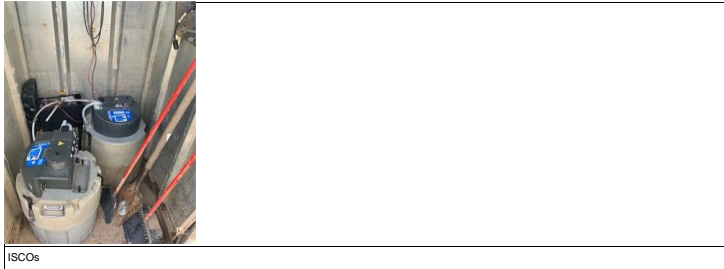
WEATHER CONDITIONS	
Temperature (F):	36.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	6

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-123024	12-30-2024	12:35	12/30/2024	11:07	8.37	5.99	68.70	17.66	313.18	16.54	Clear with particulates	No	--

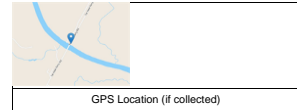
Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS

Temperature (F):	57.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	8

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



Staff gauge



ISCO

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP4Q24-CFR-BLADEN-102424	10-24-2024	09:15	8.01	9.00	-39.70	9.01	223.90	18.65	Clear	No	--

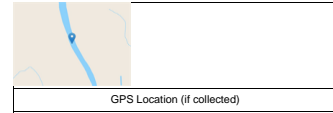
Sampling Data

Sampling Method: Tubing Depth (ft): Distance to River Right:
 Sampling Location: Multi Meter Used: Distance to River Left:
 Total Depth to Bottom of Channel (ft): Multi Meter ID: Distance to River (Right/Left) Units:

WEATHER CONDITIONS

Temperature (F):	<input type="text" value="63.00"/>
Sky:	<input type="text" value="Sunny"/>
Precipitation:	<input type="text" value="None"/>
Wind (mph)	<input type="text" value="7"/>

Latitude:
 Longitude:



General Comments:

Sample Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Chemours Fayetteville Location ID: CFR-KINGS Project Manager: Tracy Ovbey
 Samplers: ERIN JANIGA/SAIRA BOHAMI Sampling Event: Quarterly CAP Event Type: Sampling
 Date: 10-24-2024 Time: 12:05

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP4Q24-CFR-KINGS-102424	10/24/2024 12:15		8.57	5.79	102.91	10.72	1414.40	22.75	Clear	No	--

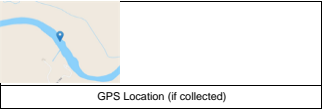
Sampling Data

Sampling Method: Peri Pump Grab Tubing Depth (ft): 6.5 Distance to River Right: 56
 Sampling Location: Thalweg Multi Meter Used: Insitu Aqua Troll Distance to River Left: 39
 Total Depth to Bottom of Channel (ft): 13 Multi Meter ID: 706720 Distance to River (Right/Left) Units: m

WEATHER CONDITIONS

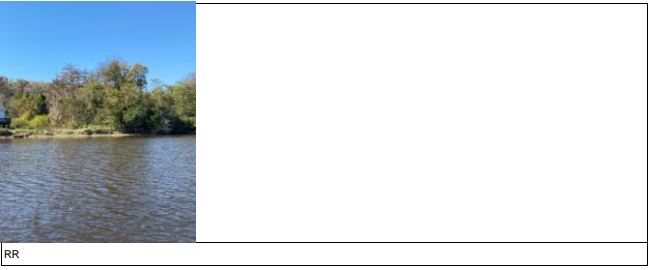
Temperature (F):	76.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	14

Latitude: 34.4064183671167
 Longitude: -78.2944817492145



General Comments:

Sample Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP4Q24-CFR-RM-76-102324	10-23-2024 09:05		7.41	7.30	50.30	9.63	894.95	16.02	Clear	No	--

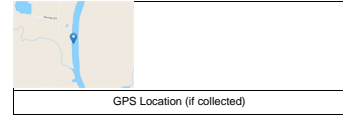
Sampling Data

Sampling Method: Tubing Depth (ft): Distance to River Right:
 Sampling Location: Multi Meter Used: Distance to River Left:
 Total Depth to Bottom of Channel (ft): Multi Meter ID: Distance to River (Right/Left) Units:

WEATHER CONDITIONS

Temperature (F):	59.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	4

Latitude:
 Longitude:



General Comments:

Sample Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Chemours Fayetteville Location ID: CFR-TARHEEL Project Manager: Tracy Ovbey
 Samplers: ERIN JANIGA/IKEN STUART Sampling Event: Quarterly CAP Event Type: Sampling
 Date: 10-24-2024 Time: 09:33

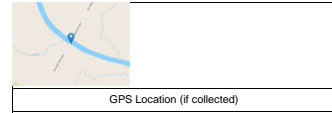
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP4Q24-CFR-TARHEEL-102424	10-24-2024	09:50	8.89	8.27	-21.70	9.66	231.89	20.26	Clear	No	--

Sampling Data

Sampling Method: Peri Pump Grab Tubing Depth (ft): 6.75 Distance to River Right: 12
 Sampling Location: Thalweg Multi Meter Used: Insitu Aqua Troll Distance to River Left: 60
 Total Depth to Bottom of Channel (ft): 13.5 Multi Meter ID: 706720 Distance to River (Right/Left) Units: m

WEATHER CONDITIONS	
Temperature (F):	67.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	9

Latitude: 34.7442950507891
 Longitude: -78.7855376704751



General Comments:

Sample Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Chemours Fayetteville Location ID: CFR-TARHEEL Project Manager: Tracy Ovbey
 Samplers: BRANDON WEIDNER|SAIRA BOHAM Sampling Event: Quarterly CAP Event Type: Sampling
 Date: 10-24-2024 Time: 10:10

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP4Q24CFR-TARHEEL-24-102424	10-24-2024	23:24	8.52	8.07	22.60	16.15	227.45	21.23	Clear	No	--

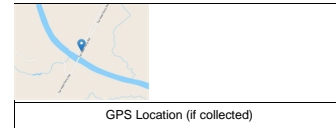
Sampling Data

Sampling Method: ISCO Composite Multi Meter Used: Insitu Aqua Troll
 ISCO Start Date and Time: 10-24-2024 00:24 Multi Meter ID: 706720
 ISCO End Date and Time: 10-24-2024 23:24

WEATHER CONDITIONS

Temperature (F):	51.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	3

Latitude: 34.7454028301253
 Longitude: -78.7851385612321



General Comments:
 Sample Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1024-GBC-1-102324	10-23-2024	15:20	7.75	7.56	115.60	10.65	0.05	29.45	Clear	--	--

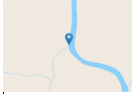
Sampling Data

Sampling Method: Multi Meter Used: Flow Rate:
 Water Quality Condition: Multi Meter ID: Flow Rate Units:

WEATHER CONDITIONS

Temperature (F):	80.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	4

Latitude:
 Longitude:



GPS Location (if collected)

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General Comments:

Sampling Comments:

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP4Q24-Lock and Dam North-102324	10-23-2024	13:20	6.46	6.05	45.40	120.00	143.03	25.18	Hazy	No	--

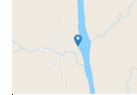
Sampling Data

Sampling Method: Multi Meter Used: Flow Rate:
 Water Quality Condition: Multi Meter ID: Flow Rate Units:

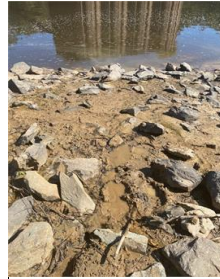
WEATHER CONDITIONS

Temperature (F):	78.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	4

Latitude:
 Longitude:



GPS Location (if collected)



General Comments:

Sampling Comments:

SURFACE WATER SAMPLING RECORD

Site Name: Chemours Fayetteville Location ID: Lock-Dam Seep Project Manager: Tracy Ovbey
 Samplers: KEN STUART Sampling Event: Quarterly CAP Event Type: Sampling
 Date: 10-23-2024 Time: 12:14

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP4Q24-Lock-Dam Seep-102324	10/23/2024	12:20	8.68	4.97	61.00	15.20	153.02	18.76	Clear	No	--

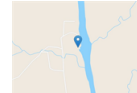
Sampling Data

Sampling Method: Bottle Grab Multi Meter Used: Insitu Aqua Troll Flow Rate: 14.2
 Water Quality Condition: Multi Meter ID: 706720 Flow Rate Units: L/min

WEATHER CONDITIONS

Temperature (F):	75.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	4

Latitude: 34.8338386059323
 Longitude: -78.8237406753505



GPS Location (if collected)



Sample location



General Comments:

Sampling Comments:

SURFACE WATER SAMPLING RECORD

Site Name: Chemours Fayetteville Location ID: OLDOF-1 Project Manager: Tracy Ovbey
 Samplers: SAIRA BOHAM|ZACHARY TOMEK Sampling Event: Quarterly CAP Event Type: Sampling
 Date: 10-23-2024 Time: 11:57

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP4Q24OLDOF-1-24-102424	10-24-2024	11:34	7.28	6.94	121.90	11.68	0.25	23.75	Clear	No	--

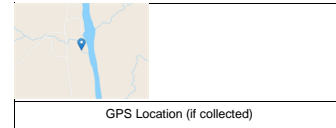
Sampling Data

Sampling Method: ISCO Composite Multi Meter Used: Insitu Aqua Troll
 ISCO Start Date and Time: 10-23-2024 12:34 Multi Meter ID: 766679
 ISCO End Date and Time: 10-24-2024 11:34

WEATHER CONDITIONS

Temperature (F):	74.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	3

Latitude: 34.8318700111675
 Longitude: -78.8237548146176



General Comments:

Sample Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP4Q24OUTFALL 002-24-102424	10-24-2024	10:15	7.57	0.81	135.60	35.60	171.87	26.22	Clear with particles	No	

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS

Temperature (F):	<input type="text" value="70.00"/>
Sky:	<input type="text" value="Sunny"/>
Precipitation:	<input type="text" value="None"/>
Wind (mph)	<input type="text" value="3"/>

Latitude:
 Longitude:



General Comments:

Sample Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Chemours Fayetteville Location ID: RIVER WATER INTAKE2 Project Manager: Tracy Ovbey
 Samplers: SAIRA BOHAM|ZACHARY TOMEK| Sampling Event: Quarterly CAP Event Type: Sampling
 Date: 10-23-2024 Time: 10:34

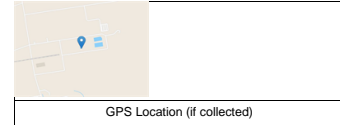
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP4Q24RIVER WATER INTAKE2-24-102424	10-24-2024	07:06	7.56	7.19	776.80	20.40	0.11	20.63	Clear	No	--

Sampling Data

Sampling Method: ISCO Composite Multi Meter Used: Insitu Aqua Troll
 ISCO Start Date and Time: 10-23-2024 08:06 Multi Meter ID: 766679
 ISCO End Date and Time: 10-24-2024 07:06

WEATHER CONDITIONS	
Temperature (F):	67.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	3

Latitude: 34.8433961292837
 Longitude: -78.8355241710052



General Comments:
 Sample Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP4Q24-SEEP-A-102324	10-23-2024	15:49	--	--	--	--	--	--	--	--	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	58.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	2

Latitude:
 Longitude:

GPS Location (if collected)

General Comments:

Sample Comments:

SURFACE WATER SAMPLING RECORD

Site Name: Chemours Fayetteville Location ID: SEEP-B Project Manager: Tracy Ovbey
 Samplers: SAIRA BOHAM Sampling Event: Quarterly CAP Event Type: Sampling
 Date: 10-23-2024 Time: 16:52

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP4Q24-SEEP-B-102324	10-23-2024	15:53	--	--	--	--	--	--	--	--	--

Sampling Data

Sampling Method: ISCO Composite Multi Meter Used:
 ISCO Start Date and Time: 10-23-2024 15:53 Multi Meter ID:
 ISCO End Date and Time: 10-23-2024 15:53

WEATHER CONDITIONS

Temperature (F):	58.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	2

Latitude:
 Longitude:

GPS Location (if collected)

General Comments: No sample collected, no processing water flowing through flow cell.

Sample Comments:

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP4Q24-SEEP-C-102324	10-23-2024	15:56	--	--	--	--	--	--	--	--	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS

Temperature (F):	58.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	2

Latitude:
 Longitude:

GPS Location (if collected)

General Comments:

Sample Comments:

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP4Q24-SEEP-D-102324	10-23-2024	15:57	--	--	--	--	--	--	--	--	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS

Temperature (F):	58.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	2

Latitude:
 Longitude:

GPS Location (if collected)

General Comments:

Sample Comments:

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP4Q24WC-1-24-102424	10-24-2024	07:00	5.60	6.60	173.00	18.96	0.11	16.19	Clear with particles	No	YES

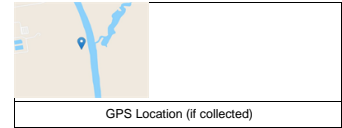
Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS

Temperature (F):	58.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	2

Latitude:
 Longitude:



General Comments:

Sample Comments:

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville
 Samplers: DEBORAH AYERS|SAIRA BOHAM

Well ID: BLADEN-1DR
 Event: Quarterly CAP

Well Diameter: 2 Inches
 Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 42
 Pump Loc: within screen

Method: Peristaltic Pump Date: 10-09-2024 Time: 09:44

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	3.206		
Initial Depth to Water (ft.):	19.5	Depth to Well Bottom (ft.):	47.41

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
10:00	20.00	260.00	1300.00	5.79	0.72	-19.40	15.22	79.64	18.50	Clear	No	
10:05	19.99	260.00	1300.00	5.67	0.11	-43.50	9.41	69.67	18.71	Clear	No	
10:10	19.97	260.00	1300.00	5.63	0.16	-40.60	10.22	65.84	18.72	Clear	No	
10:15	19.98	260.00	1300.00	5.66	0.15	-44.30	11.88	63.99	18.83	Clear	No	
10:20	20.00	260.00	1300.00	5.69	0.09	-46.80	9.62	63.24	18.86	Clear	No	
10:25	20.00	260.00	1300.00	5.73	0.08	-73.40	9.61	63.02	18.92	Clear	No	
10:30	20.00	260.00	1300.00	5.78	0.13	-74.80	7.98	62.73	18.95	Clear	No	
10:35	20.00	260.00	1300.00	5.81	0.13	-76.70	6.52	62.49	18.99	Clear	No	
10:40	20.00	260.00	1300.00	5.82	0.13	-76.50	6.56	62.63	19.00	Clear	No	

Screen Interval: 27-37

Sampling Data

Method: Low Flow
 Field Filtered: No

Date: 10-09-2024 Time: 10:40

Purge Start Time: 09:55
 Total Volume Purged (mL): 11700

Field Parameters

STABILIZED PARAMETERS	
pH	5.82
Spec. Cond. (µS/cm)	62.63
Turbidity (NTU)	6.56
Temp. (°C)	19.00
DO (mg/L)	0.13
ORP (mV)	-76.50

Sample ID: CAP4Q24-BLADEN-1DR-100924
 DuplicateID: --
 QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	58.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	7

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: LTW-01

Well Diameter: 2 Inches

Samplers: BRANDON WEIDNER|SAIRA BOHAM

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 20

Pump Loc: within screen

Method: Peristaltic Pump

Date: 10-10-2024

Time: 08:50

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Water Volume = 2.091

Initial Depth to Water (ft.): 15.66 Depth to Well Bottom (ft.): 28.73

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
09:05	16.47	150.00	750.00	5.28	0.03	34.50	69.50	142.62	17.77	Cloudy	No	
09:10	16.50	150.00	750.00	4.55	0.29	35.60	65.50	104.86	17.78	Cloudy	No	
09:15	16.55	150.00	750.00	4.55	0.20	43.50	68.30	100.17	17.92	Cloudy	No	
09:20	16.56	150.00	750.00	4.6	0.20	52.10	73.60	100.14	17.93	Cloudy	No	
09:25	16.56	150.00	750.00	4.64	0.19	56.40	63.60	99.70	17.96	Cloudy	No	
09:30	16.55	150.00	750.00	4.61	0.09	62.20	45.00	98.08	18.06	Cloudy	No	
09:35	16.55	150.00	750.00	4.62	0.06	60.90	28.40	96.90	18.03	Cloudy	No	
09:40	16.55	150.00	750.00	4.6	0.09	59.00	19.16	96.03	17.98	Clear	No	
09:45	16.55	150.00	750.00	4.6	0.08	57.90	17.13	96.02	17.95	Clear	No	
09:50	16.55	150.00	750.00	4.59	0.06	57.20	14.14	95.47	18.04	Clear	No	
09:55	16.55	150.00	750.00	4.57	0.07	59.20	12.53	95.43	18.07	Clear	No	
10:00	16.55	150.00	750.00	4.58	0.07	58.70	11.49	95.43	17.94	Clear	No	
10:05	16.55	150.00	750.00	4.58	0.07	59.00	10.02	95.44	18.08	Clear	No	

Screen Interval: 11.0-26.0

Sampling Data

Method: Low Flow

Date: 10-10-2024 Time: 10:05

Purge Start Time: 09:00

Field Filtered: No

Total Volume Purged (mL): 9750

Field Parameters

STABILIZED PARAMETERS	
pH	4.58
Spec. Cond. (µS/cm)	95.44
Turbidity (NTU)	10.02
Temp. (°C)	18.08
DO (mg/L)	0.07
ORP (mV)	59.00

Sample ID: CAP4Q24-LTW-01-101024
 DuplicateID: --
 QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	58.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	6

RECORD OF WELL SAMPLING

Site Name:

Well ID:

Well Diameter: Inches

Samplers:

Event:

Project Manager:

Purging Data

Pump Depth:

Pump Loc:

Method:

Date:

Time:

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	4.794		
Initial Depth to Water (ft.):	10.69	Depth to Well Bottom (ft.):	40.65

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
12:45	10.82	225.00	1575.00	5.03	0.06	-8.70	12.10	95.77	19.63	Clear	None	
12:50	10.82	225.00	1125.00	4.98	0.00	-7.60	11.80	95.87	19.53	Clear	None	
12:55	10.82	225.00	1125.00	4.93	0.00	-12.80	11.00	95.97	19.44	Clear	None	
13:00	10.82	225.00	1125.00	4.89	0.00	-21.40	9.82	95.82	19.39	Clear	None	
13:05	10.82	225.00	1125.00	4.88	0.00	-26.40	12.80	95.50	19.41	Clear	None	
13:10	10.82	225.00	1125.00	4.87	0.00	-32.80	12.20	96.17	19.35	Clear	None	
13:15	10.82	225.00	1125.00	4.85	0.00	-38.20	12.50	98.55	19.49	Clear	None	
13:20	10.82	225.00	1125.00	4.83	0.00	-39.80	15.60	101.29	19.51	Clear	None	
13:25	10.82	225.00	1125.00	4.83	0.00	-39.60	16.70	103.98	19.53	Clear	None	

Screen Interval:

Sampling Data

Method:

Date: Time:

Purge Start Time:

Field Filtered:

Total Volume Purged (mL):

Field Parameters

STABILIZED PARAMETERS	
pH	4.83
Spec. Cond. (µS/cm)	103.98
Turbidity (NTU)	16.70
Temp. (°C)	19.53
DO (mg/L)	0.00
ORP (mV)	-39.60

Sample ID:

DuplicateID:

QA/QC:

WEATHER CONDITIONS	
Temperature (F):	71.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	10

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: LTW-03

Well Diameter: 2 Inches

Samplers: BRANDON WEIDNER|SAIRA BOHAM

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 25

Pump Loc: within screen

Method: Peristaltic Pump

Date: 10-10-2024

Time: 12:30

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	3.181		
Initial Depth to Water (ft.):	12.85	Depth to Well Bottom (ft.):	32.73

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
12:45	13.34	210.00	1050.00	4.52	0.01	90.80	42.10	89.96	18.37	Hazy	None	
12:50	13.50	210.00	1050.00	4.51	0.00	80.80	25.50	90.42	18.26	Clear	None	
12:55	13.57	210.00	1050.00	4.5	0.01	74.90	14.68	90.49	18.19	Clear	None	
13:00	13.60	210.00	1050.00	4.48	0.00	70.00	11.80	90.52	18.25	Clear	None	
13:05	13.61	210.00	1050.00	4.48	0.00	66.90	9.10	88.49	18.33	Clear	None	
13:10	13.64	210.00	1050.00	4.47	0.00	63.90	9.11	88.95	18.22	Clear	None	
13:15	13.67	210.00	1050.00	4.48	0.00	60.40	6.43	88.60	18.13	Clear	None	
13:20	13.67	210.00	1050.00	4.49	0.00	57.90	5.56	87.95	18.10	Clear	None	
13:25	13.69	210.00	1050.00	4.49	0.00	55.80	5.70	90.01	18.14	Clear	None	

Screen Interval: 15.0-30.0

Sampling Data

Method: Low Flow
Field Filtered: No

Date: 10-10-2024 Time: 13:25

Purge Start Time: 12:40
Total Volume Purged (mL): 9450

Field Parameters

STABILIZED PARAMETERS	
pH	4.49
Spec. Cond. (µS/cm)	90.01
Turbidity (NTU)	5.70
Temp. (°C)	18.14
DO (mg/L)	0.00
ORP (mV)	55.80

Sample ID: CAP4Q24-LTW-03-101024
DuplicateID: --
QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	65.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	15

RECORD OF WELL SAMPLING

 Site Name: Chemours Fayetteville

 Well ID: LTW-04

 Well Diameter: 2 Inches

 Samplers: CHARLES PACE

 Event: Quarterly CAP

 Project Manager: Tracy Ovbey
Purging Data

 Pump Depth: 25

 Pump Loc: within screen

 Method: Peristaltic Pump

 Date: 10-09-2024 Time: 10:18
WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	2.867		
Initial Depth to Water (ft.):	10.54	Depth to Well Bottom (ft.):	28.46

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
10:35	11.55	125.00	1000.00	4.52	0.14	45.90	90.40	96.58	17.87	Cloudy	None	
10:40	11.72	125.00	625.00	4.69	0.04	39.40	90.20	88.81	17.95	Cloudy	None	
10:45	11.82	125.00	625.00	4.79	0.01	32.00	79.00	87.49	18.09	Cloudy	None	
10:50	11.84	125.00	625.00	4.87	0.02	32.10	68.00	85.14	18.13	Cloudy	None	
10:55	11.88	125.00	625.00	5.01	0.01	27.00	60.30	82.40	18.23	Cloudy	None	
11:00	11.92	125.00	625.00	5.1	0.02	18.20	58.50	78.90	18.31	Cloudy	None	
11:05	11.93	125.00	625.00	5.13	0.00	12.10	50.80	76.85	18.36	Cloudy	None	
11:10	11.95	125.00	625.00	5.14	0.00	8.60	44.20	76.07	18.48	Cloudy	None	
11:15	11.95	125.00	625.00	5.18	0.00	4.00	41.80	75.22	18.30	Cloudy	None	
11:20	11.96	125.00	625.00	5.18	0.00	1.70	37.30	75.30	18.30	Cloudy	None	
11:25	11.98	125.00	625.00	5.19	0.00	-1.10	33.50	74.91	18.32	Cloudy	None	
11:30	11.99	125.00	625.00	5.2	0.00	-3.80	28.60	75.18	18.40	Cloudy	None	
11:35	12.01	125.00	625.00	5.21	0.00	-5.60	30.00	75.22	18.53	Cloudy	None	
11:40	12.03	125.00	625.00	5.21	0.00	-8.40	23.50	74.93	18.62	Slightly Cloudy	None	
11:45	12.03	125.00	625.00	5.19	0.00	-9.70	23.50	75.12	18.82	Clear	None	
11:50	12.05	125.00	625.00	5.23	0.00	-12.60	25.60	74.68	18.77	Clear	None	
11:55	12.06	125.00	625.00	5.21	0.00	-13.90	19.90	74.75	19.00	Clear	None	
12:00	12.09	125.00	625.00	5.27	0.00	-16.40	18.90	74.60	19.02	Clear	None	
12:05	12.09	125.00	625.00	5.28	0.00	-17.80	16.10	74.44	19.01	Clear	None	
12:10	12.11	125.00	625.00	5.26	0.00	-19.40	14.80	74.55	19.04	Clear	None	
12:15	12.12	125.00	625.00	5.27	0.00	-21.40	15.40	74.31	19.08	Clear	None	
12:20	12.14	125.00	625.00	5.26	0.00	-23.20	13.70	74.04	19.28	Clear	None	
12:25	12.15	125.00	625.00	5.28	0.00	-24.50	12.40	74.13	19.19	Clear	None	
12:30	12.12	128.00	640.00	5.28	0.00	-25.70	12.30	73.78	19.32	Clear	None	

 Screen Interval: 12.0-27.0
Sampling Data

 Method: Low Flow

 Date: 10-09-2024 Time: 12:30

 Purge Start Time: 10:27

 Field Filtered: No

 Total Volume Purged (mL): 15390
Field Parameters

STABILIZED PARAMETERS	
pH	5.28
Spec. Cond. (µS/cm)	73.78
Turbidity (NTU)	12.30
Temp. (°C)	19.32
DO (mg/L)	0.00
ORP (mV)	-25.70

 Sample ID: CAP4Q24-LTW-04-100924
 DuplicateID: --
 QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	62.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	6

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: LTW-05

Well Diameter: 2 Inches

Samplers: BRANDON WEIDNER|CHARLES PACE

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 35

Pump Loc: within screen

Method: Peristaltic Pump

Date: 10-09-2024

Time: 14:00

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	5.664		
Initial Depth to Water (ft.):	11.81	Depth to Well Bottom (ft.):	47.21

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
14:15	12.20	350.00	1750.00	5.6	0.06	-54.70	27.10	105.84	19.98	Clear	None	
14:20	12.19	350.00	1750.00	5.61	0.00	-84.30	32.70	106.66	19.83	Clear	None	
14:25	12.15	350.00	1750.00	5.63	0.00	-97.70	31.90	106.72	19.97	Clear	None	
14:30	12.15	350.00	1750.00	5.66	0.00	-105.70	39.20	106.69	19.84	Clear	None	
14:35	12.16	350.00	1750.00	5.63	0.00	-106.50	30.50	106.46	19.89	Clear	None	
14:40	12.17	350.00	1750.00	5.58	0.00	-107.00	25.70	105.69	19.69	Clear	None	
14:45	12.17	350.00	1750.00	5.57	0.00	-108.80	17.90	105.58	19.62	Clear	None	
14:50	12.17	350.00	1750.00	5.56	0.00	-107.70	14.50	105.32	19.58	Clear	None	
14:55	12.17	350.00	1750.00	5.55	0.00	-105.80	13.60	104.56	19.56	Clear	None	

Screen Interval: 29.0-44.0

Sampling Data

Method: Low Flow
Field Filtered: No

Date: 10-09-2024 Time: 14:55

Purge Start Time: 14:10
Total Volume Purged (mL): 15750

Field Parameters

STABILIZED PARAMETERS	
pH	5.55
Spec. Cond. (µS/cm)	104.56
Turbidity (NTU)	13.60
Temp. (°C)	19.56
DO (mg/L)	0.00
ORP (mV)	-105.80

Sample ID: CAP4Q24-LTW-05-100924
DuplicateID: CAP4Q24-LTW-05-100924-D
QA/QC: Dup|MS|MSD

WEATHER CONDITIONS	
Temperature (F):	74.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	6

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: MW-24

Well Diameter: 2 Inches

Samplers: DEBORAH AYERS

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 24

Pump Loc: within screen

Method: Peristaltic Pump

Date: 10-10-2024 Time: 10:01

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0.946		
Initial Depth to Water (ft.):	21.04	Depth to Well Bottom (ft.):	26.95

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
10:00	22.02	200.00	1000.00	5.2	6.47	13.90	73.40	53.03	20.92	Cloudy	No	
10:05	21.99	130.00	650.00	5.48	6.84	25.20	47.40	52.86	20.74	Clear	Cloudy	
10:11	21.97	130.00	780.00	5.63	7.06	49.00	28.40	55.58	20.82	Clear	No	
10:15	21.95	100.00	400.00	5.56	7.12	56.30	17.55	51.98	21.39	Clear	No	
10:20	21.91	100.00	500.00	5.69	7.13	63.80	14.97	52.77	21.35	Clear	No	
10:25	21.93	100.00	500.00	5.79	7.18	71.50	13.05	49.74	21.38	Clear	No	
10:30	21.94	100.00	500.00	5.84	7.15	84.10	12.66	51.43	21.59	Clear	No	
10:35	21.96	100.00	500.00	5.92	7.17	91.40	9.58	50.31	21.62	Clear	No	
10:40	21.98	100.00	500.00	6.01	7.11	97.30	9.84	53.11	21.37	Clear	No	
10:45	21.99	100.00	500.00	5.9	7.16	106.00	8.45	52.26	21.74	Clear	No	
10:50	22.00	100.00	500.00	5.92	7.06	118.10	7.61	55.52	21.82	Clear	No	
10:55	22.07	100.00	500.00	5.96	6.84	120.10	13.94	61.03	21.86	Clear	No	
11:00	22.37	100.00	500.00	5.97	7.04	129.60	21.70	53.24	21.91	Clear	No	
11:05	22.48	100.00	500.00	5.93	6.93	126.50	43.60	60.51	22.23	Clear with particulates	No	
11:10	22.33	100.00	500.00	6.07	6.83	120.60	43.40	64.67	22.01	Clear with particulates	No	
11:15	22.29	100.00	500.00	6.11	6.72	123.80	25.80	70.12	21.93	Clear	No	
11:20	22.28	100.00	500.00	6.06	6.78	126.20	8.79	70.25	22.17	Clear	No	
11:25	22.20	100.00	500.00	6.07	6.76	126.60	4.57	68.80	22.26	Clear	No	
11:30	22.13	100.00	500.00	6.08	6.86	147.40	3.80	67.96	22.29	Clear	No	
11:35	22.11	100.00	500.00	6.08	6.91	170.70	2.14	65.06	22.60	Clear	No	
11:40	22.11	100.00	500.00	6.17	6.83	155.70	2.67	67.63	22.33	Clear	No	
11:45	22.11	100.00	500.00	6.08	6.85	149.00	2.25	64.52	22.53	Clear	No	
11:50	22.11	100.00	500.00	6.06	6.72	143.70	3.72	68.89	22.46	Clear	No	

Screen Interval: 18.8 to 23.8

Sampling Data

Method: Low Flow

Date: 10-10-2024 Time: 11:50

Purge Start Time: 09:55

Field Filtered: No

Total Volume Purged (mL): 12330

Field Parameters

STABILIZED PARAMETERS	
pH	6.06
Spec. Cond. (µS/cm)	68.89
Turbidity (NTU)	3.72
Temp. (°C)	22.46
DO (mg/L)	6.72
ORP (mV)	143.70

Sample ID: CAP4Q24-MW-24-101024
 DuplicateID: --
 QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	60.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	15

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: NAF-03

Well Diameter: 2 Inches

Samplers: DEBORAH AYERS|KEN STUART

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 17

Pump Loc: within screen

Method: Peristaltic Pump

Date: 10-10-2024

Time: 12:33

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	1.421		
Initial Depth to Water (ft.):	9.37	Depth to Well Bottom (ft.):	18.25

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
13:00	9.71	360.00	21600.00	7.57	0.81	135.60	4.90	167.69	28.40	Clear	None	
13:05	9.87	360.00	2520.00	7.36	2.49	126.40	1.76	170.16	26.29	Clear	None	
13:10	9.95	360.00	1800.00	7.27	2.73	123.20	2.73	177.87	26.29	Clear	None	
13:15	10.02	360.00	1800.00	7.1	2.74	121.90	4.92	173.14	26.50	Clear	None	
13:20	10.08	360.00	1800.00	7.03	2.71	120.30	6.11	164.73	26.49	Clear	None	

Screen Interval: 5.0-15.0

Sampling Data

Method: Low Flow

Date: 10-10-2024 Time: 13:20

Purge Start Time: 12:50

Field Filtered: No

Total Volume Purged (mL): 29520

Field Parameters

STABILIZED PARAMETERS	
pH	7.03
Spec. Cond.(µS/cm)	164.73
Turbidity (NTU)	6.11
Temp.(°C)	26.49
DO (mg/L)	2.71
ORP (mV)	120.30

Sample ID: CAP4Q24-NAF-03-101024
 DuplicateID: --
 QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	66.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	16

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: OW-28

Well Diameter: 2 Inches

Samplers: DEBORAH AYERS|SAIRA BOHAM

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 27

Pump Loc: within screen

Method: Peristaltic Pump

Date: 10-08-2024

Time: 13:15

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	4.096		
Initial Depth to Water (ft.):	7.95	Depth to Well Bottom (ft.):	33.55

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
13:45	8.31	300.00	1500.00	5.79	0.19	37.70	8.42	45.12	19.98	Clear	Eggy	
13:50	8.32	300.00	1500.00	5.52	0.11	21.20	3.45	45.24	19.72	Clear	Eggy	
13:55	8.32	300.00	1500.00	5.26	0.09	9.90	1.74	45.30	19.73	Clear	Eggy	
14:00	8.32	300.00	1500.00	5.01	0.07	1.70	1.45	45.32	19.82	Clear	Eggy	
14:05	8.32	300.00	1500.00	4.87	0.06	-4.40	1.15	45.34	19.61	Clear	Eggy	
14:10	8.32	300.00	1500.00	4.77	0.05	-8.40	0.99	45.31	19.57	Clear	Eggy	
14:15	8.32	300.00	1500.00	4.67	0.05	-12.60	0.87	45.31	19.52	Clear	Eggy	
14:20	8.32	300.00	1500.00	4.57	0.05	-15.40	0.27	45.34	19.57	Clear	Eggy	
14:25	8.32	300.00	1500.00	4.47	0.05	-18.10	0.86	45.38	19.66	Clear	Eggy	
14:30	8.32	300.00	1500.00	4.43	0.04	-20.50	0.75	45.35	19.63	Clear	Eggy	
14:35	8.32	300.00	1500.00	4.32	0.07	-5.00	1.95	45.35	20.10	Clear	Eggy	Stopped per pump at 1431 to clean sensors; resumed again at 1433
14:40	8.32	300.00	1500.00	4.42	0.07	-13.20	0.75	45.36	19.45	Clear	Eggy	
14:45	8.32	300.00	1500.00	4.34	0.07	-17.70	0.57	45.46	19.54	Clear	Eggy	
14:50	8.32	300.00	1500.00	4.31	0.07	-21.50	0.71	45.38	19.43	Clear	Eggy	

Screen Interval: 20-30

Sampling Data

Method: Low Flow

Date: 10-08-2024 Time: --

Purge Start Time: 13:40

Field Filtered: No

Total Volume Purged (mL): 21000

Field Parameters

STABILIZED PARAMETERS	
pH	4.32
Spec. Cond.(µS/cm)	45.49
Turbidity (NTU)	0.28
Temp.(°C)	19.00
DO (mg/L)	0.03
ORP (mV)	-33.90

Sample ID: CAP4Q24-OW-28-100824
 DuplicateID: --
 QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	74.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	15

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: OW-28

Well Diameter: 2 Inches

Samplers: DEBORAH AYERS|SAIRA BOHAM

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 27

Pump Loc: within screen

Method: Peristaltic Pump

Date: 10-08-2024

Time: 13:40

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	4.096		
Initial Depth to Water (ft.):	7.95	Depth to Well Bottom (ft.):	33.55

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
15:00	8.32	300.00	24000.00	4.28	0.03	-26.60	0.78	45.49	19.32	Clear	Eggy	
15:05	8.32	300.00	1500.00	4.27	0.02	-28.50	0.78	45.50	19.16	Clear	Eggy	
15:10	8.32	300.00	1500.00	4.23	0.03	-29.80	0.70	45.51	19.20	Clear	Eggy	
15:15	8.32	300.00	1500.00	4.31	0.03	-31.50	0.75	45.50	19.22	Clear	Eggy	
15:20	8.32	300.00	1500.00	4.3	0.03	-32.90	0.65	45.49	19.13	Clear	Eggy	
15:25	8.32	300.00	1500.00	4.32	0.03	-33.90	0.28	45.49	19.00	Clear	Eggy	

Screen Interval: 20-30

Sampling Data

Method: Low Flow

Date: 10-08-2024 Time: 15:25

Purge Start Time: 13:40

Field Filtered: No

Total Volume Purged (mL): 31500

Field Parameters

STABILIZED PARAMETERS	
pH	4.32
Spec. Cond.(µS/cm)	45.49
Turbidity (NTU)	0.28
Temp.(°C)	19.00
DO (mg/L)	0.03
ORP (mV)	-33.90

Sample ID: CAP4Q24-OW-28-100824
 DuplicateID: --
 QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	74.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	15

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: OW-33

Well Diameter: 2 Inches

Samplers: DEBORAH AYERS|SAIRA BOHAM

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 27

Pump Loc: within screen

Method: Peristaltic Pump

Date: 10-08-2024

Time: 10:14

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Water Volume = 3.934

Initial Depth to Water (ft.): 7.43 Depth to Well Bottom (ft.): 32.02

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
10:20	7.52	290.00	1450.00	5.34	0.14	-11.10	13.98	58.01	19.90	Clear	No	
10:25	7.51	290.00	1450.00	5.24	0.11	10.00	18.39	57.99	19.88	Clear	No	
10:30	7.51	290.00	1450.00	5.15	0.09	3.30	15.17	57.77	19.86	Clear	No	
10:35	7.51	290.00	1450.00	5.08	0.08	2.30	10.98	57.63	19.86	Clear	No	
10:40	7.51	290.00	1450.00	5.03	0.07	3.40	6.88	57.81	19.91	Clear	No	
10:45	7.51	290.00	1450.00	4.98	0.06	5.00	6.91	57.33	19.96	Clear	No	
10:50	7.51	290.00	1450.00	4.93	0.06	7.60	6.44	56.93	19.83	Clear	No	
10:55	7.51	290.00	1450.00	4.79	0.05	7.60	4.76	58.66	19.87	Clear	No	
11:00	7.51	290.00	1450.00	4.75	0.04	7.70	4.87	59.00	19.89	Clear	No	
11:05	7.51	290.00	1450.00	4.73	0.04	8.80	3.95	59.05	19.94	Clear	No	
11:10	7.51	290.00	1450.00	4.69	0.04	12.00	3.48	59.29	19.99	Clear	No	
11:15	7.51	290.00	1450.00	4.69	0.04	14.90	2.95	59.04	19.99	Clear	No	
11:20	7.51	290.00	1450.00	4.69	0.04	18.10	2.94	59.26	20.01	Clear	No	
11:25	7.51	290.00	1450.00	4.68	0.04	20.90	3.38	59.27	20.08	Clear	No	
11:30	7.51	290.00	1450.00	4.68	0.04	22.90	2.14	59.39	20.10	Clear	No	
11:35	7.51	290.00	1450.00	4.71	0.04	26.00	2.82	59.30	20.02	Clear	No	
11:40	7.51	290.00	1450.00	4.7	0.04	28.00	3.17	59.46	20.13	Clear	No	
11:45	7.51	290.00	1450.00	4.74	0.04	31.40	2.11	59.52	20.07	Clear	No	
11:50	7.51	290.00	1450.00	4.69	0.05	37.00	2.51	59.54	20.07	Clear	No	Pump stop @ 11:51 to clean up INSITU.

Screen Interval: 19-29

Sampling Data

Method: Low Flow

Date: 10-08-2024 Time: --

Purge Start Time: 10:15

Field Filtered: No

Total Volume Purged (mL): 27550

Field Parameters

STABILIZED PARAMETERS	
pH	4.54
Spec. Cond.(µS/cm)	59.63
Turbidity (NTU)	1.49
Temp.(°C)	19.92
DO (mg/L)	0.05
ORP (mV)	74.50

 Sample ID: CAP4Q24-OW-33-100824
 DuplicateID: CAP4Q24-OW-33-100824-D
 QA/QC: MS/MSD/DUP

WEATHER CONDITIONS	
Temperature (F):	63.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	3

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: OW-33

Well Diameter: 2 Inches

Samplers: DEBORAH AYERS|SAIRA BOHAM

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 27

Pump Loc: within screen

Method: Peristaltic Pump

Date: 10-08-2024

Time: 11:54

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	3.934		
Initial Depth to Water (ft.):	7.43	Depth to Well Bottom (ft.):	32.02

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
11:55	7.51	290.00	29000.00	4.62	0.09	80.50	1.99	59.17	20.60	Clear	No	
12:00	7.51	290.00	1450.00	4.68	0.07	72.10	1.84	59.48	20.10	Clear	No	
12:05	7.51	290.00	1450.00	4.5	0.05	69.00	2.03	59.52	20.07	Clear	No	
12:10	7.51	290.00	1450.00	4.58	0.05	68.90	1.56	59.57	19.95	Clear	No	
12:15	7.51	290.00	1450.00	4.58	0.07	70.80	2.09	59.52	19.89	Clear	No	
12:20	7.51	290.00	1450.00	4.56	0.05	71.60	1.87	59.68	19.91	Clear	No	
12:25	7.51	290.00	1450.00	4.56	0.05	73.00	1.69	59.63	19.87	Clear	No	
12:30	7.51	290.00	1450.00	4.54	0.05	74.50	1.49	59.63	19.92	Clear	No	

Screen Interval: 19-29

Sampling Data

Method: Low Flow

Date: 10-08-2024 Time: 12:30

Purge Start Time: 10:15

Field Filtered: No

Total Volume Purged (mL): 39150

Field Parameters

STABILIZED PARAMETERS	
pH	4.54
Spec. Cond.(µS/cm)	59.63
Turbidity (NTU)	1.49
Temp.(°C)	19.92
DO (mg/L)	0.05
ORP (mV)	74.50

Sample ID: CAP4Q24-OW-33-100824
 DuplicateID: CAP4Q24-OW-33-100824-D
 QA/QC: Dup|MS|MSD

WEATHER CONDITIONS	
Temperature (F):	63.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	3

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PIW-1D

Well Diameter: 2 Inches

Samplers: BRANDON WEIDNER|CHARLES PACE

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 29

Pump Loc: bottom of well

Method: Peristaltic Pump

Date: 10-08-2024

Time: 10:50

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	2.451		
Initial Depth to Water (ft.):	16.39	Depth to Well Bottom (ft.):	31.71

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
11:05	16.53	175.00	1225.00	3.7	0.09	273.00	236.00	192.86	20.29	Slightly cloudy	None	
11:10	16.49	175.00	875.00	3.69	0.00	244.20	344.00	195.66	20.14	Hazy	None	
11:15	16.50	175.00	875.00	3.7	0.00	231.00	149.00	190.20	20.32	Hazy	None	
11:20	16.50	175.00	875.00	3.68	0.00	235.90	248.00	199.95	20.16	Cloudy	None	
11:25	16.50	175.00	875.00	3.67	0.00	240.30	147.00	201.50	20.09	Cloudy	None	
11:30	16.50	175.00	875.00	3.67	0.00	252.00	112.00	202.12	20.09	Cloudy	None	
11:35	16.50	175.00	875.00	3.67	0.00	262.50	81.30	201.74	20.07	Cloudy	None	
11:40	16.50	175.00	875.00	3.67	0.00	263.60	58.50	199.64	20.15	Cloudy	None	
11:45	16.50	175.00	875.00	3.67	0.00	270.30	41.70	201.26	20.12	Cloudy	None	
11:50	16.50	175.00	875.00	3.67	0.00	272.20	30.80	200.57	20.13	Hazy	None	
11:55	16.50	175.00	875.00	3.66	0.00	274.10	25.20	199.20	20.15	Clear	None	
12:00	16.50	175.00	875.00	3.66	0.00	274.00	19.40	197.77	20.12	Clear	None	
12:05	16.50	175.00	875.00	3.67	0.00	273.20	14.60	193.88	20.25	Clear	None	
12:10	16.40	175.00	875.00	3.66	0.00	270.90	18.40	185.96	20.30	Clear	None	

Screen Interval: 25-30

Sampling Data

Method: Low Flow

Date: 10-08-2024 Time: 12:10

Purge Start Time: 10:58

Field Filtered: No

Total Volume Purged (mL): 12600

Field Parameters

STABILIZED PARAMETERS	
pH	3.66
Spec. Cond.(µS/cm)	185.96
Turbidity (NTU)	18.40
Temp.(°C)	20.30
DO (mg/L)	0.00
ORP (mV)	270.90

Sample ID: CAP4Q24-PIW-1D-100824
 DuplicateID: --
 QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	67.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	11

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PIW-1S

Well Diameter: 2 Inches

Samplers: BRANDON WEIDNER|CHARLES PACE

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 21.5

Pump Loc: bottom of well

Method: Peristaltic Pump

Date: 10-08-2024

Time: 10:00

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0.661		
Initial Depth to Water (ft.):	17.8	Depth to Well Bottom (ft.):	21.93

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
10:20	18.88	100.00	600.00	3.88	2.51	230.40	18.90	214.51	20.62	Clear	None	
10:25	17.89	100.00	500.00	3.9	2.85	226.80	17.70	188.79	20.72	Clear	None	
10:30	17.90	100.00	500.00	3.9	2.76	227.20	16.10	184.14	20.90	Clear	None	
10:35	17.90	100.00	500.00	3.89	2.73	237.10	8.82	183.77	20.88	Clear	None	

Screen Interval: 8-18

Sampling Data

Method: Low Flow

Date: 10-08-2024 Time: 10:35

Purge Start Time: 10:14

Field Filtered: No

Total Volume Purged (mL): 2100

Field Parameters

STABILIZED PARAMETERS	
pH	3.89
Spec. Cond.(µS/cm)	183.77
Turbidity (NTU)	8.82
Temp.(°C)	20.88
DO (mg/L)	2.73
ORP (mV)	237.10

Sample ID: CAP4Q24-PIW-1S-100824
 DuplicateID: --
 QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	63.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	11

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PIW-3D

Well Diameter: 2 Inches

Samplers: BRANDON WEIDNER|CHARLES PACE

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 23

Pump Loc: within screen

Method: Peristaltic Pump

Date: 10-08-2024

Time: 13:41

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	1.763		
Initial Depth to Water (ft.):	15.78	Depth to Well Bottom (ft.):	26.8

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
13:00	16.01	300.00	-18900.00	5.19	0.00	-73.20	8.82	99.04	18.67	Clear	None	
14:00	16.01	300.00	1500.00	5.21	0.00	-80.10	3.36	98.91	18.56	Clear	None	
14:05	16.01	300.00	1500.00	5.24	0.00	-83.50	2.37	99.38	18.70	Clear	None	
14:10	16.01	300.00	1500.00	5.29	0.00	-86.10	1.99	100.12	18.73	Clear	None	

Screen Interval: 20-25

Sampling Data

Method: Low Flow

Date: 10-08-2024 Time: 14:10

Purge Start Time: 13:47

Field Filtered: No

Total Volume Purged (mL): -14400

Field Parameters

STABILIZED PARAMETERS	
pH	5.29
Spec. Cond.(µS/cm)	100.12
Turbidity (NTU)	1.99
Temp.(°C)	18.73
DO (mg/L)	0.00
ORP (mV)	-86.10

Sample ID: CAP4Q24-PIW-3D-100824
 DuplicateID: --
 QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	73.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	10

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PIW-7D

Well Diameter: 2 Inches

Samplers: BRANDON WEIDNER|SAIRA BOHAM

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 33

Pump Loc: within screen

Method: Peristaltic Pump

Date: 10-10-2024

Time: 10:40

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	4.534		
Initial Depth to Water (ft.):	8.67	Depth to Well Bottom (ft.):	37.01

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
11:00	8.85	240.00	1920.00	6.53	0.00	-175.20	31.30	124.64	18.04	Clear	None	
11:05	8.78	240.00	1200.00	6.54	0.00	-185.10	32.10	125.31	18.05	Clear	None	
11:10	8.75	240.00	1200.00	6.41	0.00	-192.50	24.20	124.19	18.07	Clear	None	
11:15	8.76	240.00	1200.00	6.46	0.00	-194.80	18.59	122.26	18.10	Clear	None	
11:20	8.76	240.00	1200.00	6.46	0.00	-196.40	16.03	124.87	18.11	Clear	None	
11:25	8.76	240.00	1200.00	6.51	0.00	-198.80	12.24	125.16	18.17	Clear	None	
11:30	8.76	240.00	1200.00	6.45	0.00	-193.40	11.16	125.13	18.19	Clear	None	
11:35	8.76	240.00	1200.00	6.44	0.00	-197.50	9.86	121.22	18.13	Clear	None	

Screen Interval: 29-34

Sampling Data

Method: Low Flow

Date: 10-10-2024 Time: 11:35

Purge Start Time: 10:52

Field Filtered: No

Total Volume Purged (mL): 10320

Field Parameters

STABILIZED PARAMETERS	
pH	6.44
Spec. Cond.(µS/cm)	121.22
Turbidity (NTU)	9.86
Temp.(°C)	18.13
DO (mg/L)	0.00
ORP (mV)	-197.50

Sample ID: CAP4Q24-PIW-7D-101024
 DuplicateID: --
 QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	62.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	15

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PIW-7S

Well Diameter: 2 Inches

Samplers: DEBORAH AYERS|SAIRA BOHAM

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 15

Pump Loc: within screen

Method: Peristaltic Pump

Date: 10-09-2024

Time: 11:31

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	1.893		
Initial Depth to Water (ft.):	8.38	Depth to Well Bottom (ft.):	20.21

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
24 hr												
13:00	8.55	360.00	1800.00	5.08	0.12	47.30	10.49	125.84	22.06	Clear	No	
13:05	8.83	280.00	1400.00	5.15	0.04	27.70	5.79	118.70	20.33	Clear	No	
13:10	8.85	280.00	1400.00	5.3	0.01	6.20	38.00	122.84	20.02	Clear with particles		
13:15	8.86	280.00	1400.00	5.3	0.01	-3.30	35.60	121.27	20.08	Clear with particles	No	
13:20	8.88	280.00	1400.00	5.32	0.00	-8.70	13.74	117.14	19.85	Clear		
13:25	8.89	280.00	1400.00	5.34	0.01	-10.80	6.25	115.14	19.57	Clear	No	
13:30	8.90	280.00	1400.00	5.38	0.01	-15.80	4.89	115.27	19.45	Clear	No	
13:35	8.92	280.00	1400.00	5.41	0.01	-22.20	2.47	116.65	19.51	Clear	No	
13:40	8.92	280.00	1400.00	5.42	0.01	-24.90	1.35	117.33	19.55	Clear	No	
13:45	8.92	280.00	1400.00	5.46	0.00	-28.30	1.17	118.33	19.61	Clear	No	
13:50	8.92	280.00	1400.00	5.5	0.00	-30.70	1.11	119.30	19.55	Clear	No	
13:55	8.92	280.00	1400.00	5.56	0.00	-32.40	0.87	120.08	19.47	Clear	No	
14:00	8.92	280.00	1400.00	5.56	0.00	-33.90	0.62	121.00	19.51	Clear	No	
14:05	8.92	280.00	1400.00	5.55	0.00	-35.60	0.73	124.26	19.47	Clear	No	
14:10	8.92	280.00	1400.00	5.54	0.00	-36.70	0.47	121.37	19.40	Clear	No	

Screen Interval: 7.8 - 17.8

Sampling Data

Method: Low Flow

Date: 10-09-2024 Time: 14:10

Purge Start Time: 12:55

Field Filtered: No

Total Volume Purged (mL): 21400

Field Parameters

STABILIZED PARAMETERS	
pH	5.54
Spec. Cond.(µS/cm)	121.37
Turbidity (NTU)	0.47
Temp.(°C)	19.40
DO (mg/L)	0.00
ORP (mV)	-36.70

Sample ID: CAP4Q24-PIW-7S-100924
 DuplicateID: --
 QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	68.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	3

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PW-04

Well Diameter: 2 Inches

Samplers: CHARLES PACE

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 29.81

Pump Loc: bottom of well

Method: Peristaltic Pump

Date: 10-07-2024 Time: 09:54

WATER VOLUME CALCULATION		
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot		
Water Volume =	1.09	
Initial Depth to Water (ft.):	24	Depth to Well Bottom (ft.): 30.81

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
10:25	24.70	110.00	660.00	3.13	0.10	319.30	62.10	605.77	21.82	Cloudy	No	
10:30	25.24	110.00	550.00	3.2	0.07	357.10	7.22	373.77	22.00	Clear	No	
10:35	25.61	110.00	550.00	3.2	0.13	364.80	3.15	347.66	22.23	Clear	No	
10:40	25.93	110.00	550.00	3.2	0.13	373.00	4.38	331.10	22.50	Clear	No	
10:45	26.25	110.00	550.00	3.21	0.13	379.70	5.04	328.17	22.65	Clear	No	

Screen Interval: 56-66

Sampling Data

Method: Low Flow
Field Filtered: No

Date: 10-07-2024 Time: 10:45

Purge Start Time: 10:19
Total Volume Purged (mL): 2860

Field Parameters

STABILIZED PARAMETERS	
pH	3.21
Spec. Cond.(µS/cm)	328.17
Turbidity (NTU)	5.04
Temp.(°C)	22.65
DO (mg/L)	0.13
ORP (mV)	379.70

Sample ID: CAP4Q24-PW-04-100724
DuplicateID: --
QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	68.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	4

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PW-06

Well Diameter: 2 Inches

Samplers: DEBORAH AYERS|SAIRA BOHAM

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 28

Pump Loc: within screen

Method: Peristaltic Pump

Date: 10-09-2024

Time: 15:21

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	2.13		
Initial Depth to Water (ft.):	19.92	Depth to Well Bottom (ft.):	33.23

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
15:25	21.10	250.00	1250.00	4.59	5.71	179.50	28.40	44.30	20.02	Clear with particles	No	
15:30	21.10	250.00	1250.00	4.35	6.88	191.40	21.40	41.89	20.32	Clear	No	
15:35	21.05	250.00	1250.00	4.55	6.91	198.30	7.66	41.87	20.15	Clear	No	
15:40	21.05	250.00	1250.00	4.47	6.45	209.90	3.67	43.97	20.24	Clear	No	
15:45	21.02	250.00	1250.00	4.38	5.73	218.00	2.28	47.47	20.28	Clear	No	
15:50	21.02	250.00	1250.00	4.34	5.20	230.60	1.59	49.71	20.16	Clear	No	
15:55	21.02	250.00	1250.00	4.34	5.31	242.20	0.87	49.94	20.13	Clear	No	
16:00	21.02	250.00	1250.00	4.34	4.87	253.60	0.76	52.01	19.99	Clear	No	

Screen Interval: 19-29

Sampling Data

Method: Low Flow
Field Filtered: --

Date: 10-09-2024 Time: 16:00

Purge Start Time: 15:20
Total Volume Purged (mL): 10000

Field Parameters

STABILIZED PARAMETERS	
pH	4.34
Spec. Cond. (µS/cm)	52.01
Turbidity (NTU)	0.76
Temp. (°C)	19.99
DO (mg/L)	4.87
ORP (mV)	253.60

Sample ID: CAP4Q24-PW-06-100924
DuplicateID: --
QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	75.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	3

RECORD OF WELL SAMPLING

Site Name:

Well ID:

Well Diameter: Inches

Samplers:

Event:

Project Manager:

Purging Data

Pump Depth:

Pump Loc:

Method: Date: Time:

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	1.206		
Initial Depth to Water (ft.):	33.71	Depth to Well Bottom (ft.):	41.25

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
12:10	33.96	160.00	960.00	4.97	6.57	219.50	64.00	36.33	22.54	Cloudy	No	
12:15	34.23	160.00	800.00	5.07	6.86	198.20	43.50	33.41	22.39	Cloudy	No	
12:20	34.40	160.00	800.00	5.05	6.79	186.60	27.20	33.79	22.47	Clear with particles	No	
12:25	34.56	160.00	800.00	5.05	6.83	179.30	14.10	33.05	22.58	Clear	No	
12:30	34.68	160.00	800.00	5.05	6.84	173.30	7.74	32.42	22.66	Clear	No	
12:35	34.79	160.00	800.00	5.03	6.60	170.00	5.55	32.38	22.59	Clear	No	

Screen Interval:

Sampling Data

Method:
Field Filtered:

Date: Time:

Purge Start Time:
Total Volume Purged (mL):

Field Parameters

STABILIZED PARAMETERS	
pH	5.03
Spec. Cond.(µS/cm)	32.38
Turbidity (NTU)	5.55
Temp.(°C)	22.59
DO (mg/L)	6.60
ORP (mV)	170.00

Sample ID:
DuplicateID:
QA/QC:

WEATHER CONDITIONS	
Temperature (F):	81.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	4

RECORD OF WELL SAMPLING

 Site Name: Chemours Fayetteville

 Well ID: PW-09

 Well Diameter: 2 Inches

 Samplers: CHARLES PACE|SAIRA BOHAM

 Event: Quarterly CAP

 Project Manager: Tracy Ovbey
Purging Data

 Pump Depth: 55

 Pump Loc: bottom of well

 Method: Double valve pump

 Date: 10-07-2024

 Time: 13:30
WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	5.222		
Initial Depth to Water (ft.):	25.03	Depth to Well Bottom (ft.):	57.67

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
13:50	25.91	300.00	1200.00	9.77	2.72	40.90	12.80	123.52	19.68	Clear	No	
13:55	27.25	300.00	1500.00	9.94	2.49	30.20	10.60	128.13	19.34	Clear	No	
14:00	28.27	300.00	1500.00	10.8	1.81	12.70	15.00	239.63	18.99	Clear	No	
14:05	28.81	300.00	1500.00	11.17	0.61	-0.70	11.50	449.38	18.99	Clear	No	
14:10	29.11	300.00	1500.00	10.3	0.27	-40.70	46.40	163.58	18.81	Cloudy	No	
14:15	29.35	300.00	1500.00	10.09	0.17	-62.90	39.80	147.76	18.72	Cloudy	No	
14:20	29.42	300.00	1500.00	9.92	0.08	-81.50	38.80	139.77	19.02	Cloudy	No	
14:25	29.50	300.00	1500.00	9.36	0.02	-113.70	33.60	118.56	18.73	Cloudy	No	
14:30	29.55	300.00	1500.00	8.93	0.00	-189.80	32.20	112.07	18.74	Cloudy	No	
14:35	29.55	300.00	1500.00	8.26	0.00	-156.60	29.90	104.96	18.65	Cloudy	No	
14:40	29.52	300.00	1500.00	7.86	0.00	-142.70	25.80	102.18	18.79	Clear	No	
14:45	29.50	300.00	1500.00	7.58	0.00	-137.60	26.50	99.22	18.74	Clear	No	
14:50	29.45	300.00	1500.00	7.42	0.00	-137.10	24.40	96.80	18.75	Clear	No	
14:55	29.40	300.00	1500.00	7.34	0.00	-139.50	25.40	94.10	18.67	Clear	No	
15:00	29.41	300.00	1500.00	7.21	0.00	-142.10	24.10	91.31	18.67	Clear	No	
15:05	29.35	300.00	1500.00	7.14	0.00	-149.40	22.80	90.19	18.83	Clear	No	
15:10	29.39	300.00	1500.00	7.11	0.00	-149.80	22.50	89.43	19.00	Clear	No	
15:15	24.35	300.00	1500.00	7.07	0.00	-150.30	20.50	87.22	18.72	Clear	No	
15:20	29.36	300.00	1500.00	7.02	0.00	-150.80	21.80	80.98	18.82	Clear	No	
15:25	29.35	300.00	1500.00	7.01	0.00	-151.20	21.70	79.46	18.82	Clear	No	
15:30	29.26	300.00	1500.00	7	0.00	-151.10	20.80	78.62	18.64	Clear	No	
15:35	29.26	300.00	1500.00	6.98	0.00	-151.20	21.50	78.58	18.52	Clear	No	
15:40	29.26	300.00	1500.00	6.94	0.00	-151.70	20.70	77.31	18.70	Clear	No	
15:45	29.26	300.00	1500.00	6.92	0.00	-151.30	19.10	76.76	18.66	Clear	No	
15:50	29.30	300.00	1500.00	6.9	0.00	-149.50	19.80	76.31	18.70	Clear	No	
15:55	29.32	300.00	1500.00	6.89	0.00	-146.90	19.60	76.21	18.81	Clear	No	

 Screen Interval: 11 - 21
Sampling Data

 Method: Low Flow
 Field Filtered: No

 Date: 10-07-2024 Time: 15:55

 Purge Start Time: 13:46
 Total Volume Purged (mL): 38700
Field Parameters

STABILIZED PARAMETERS	
pH	6.89
Spec. Cond.(µS/cm)	76.21
Turbidity (NTU)	19.60
Temp.(°C)	18.81
DO (mg/L)	0.00
ORP (mV)	-146.90

 Sample ID: CAP4Q24-PW-09-100724
 DuplicateID: --
 QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	82.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PZ-22

Well Diameter: .75 Inches

Samplers: BRANDON WEIDNER|CHARLES PACE

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 45

Pump Loc: within screen

Method: Peristaltic Pump

Date: 10-09-2024

Time: 12:40

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0.36		
Initial Depth to Water (ft.):	10.28	Depth to Well Bottom (ft.):	50.73

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
24 hr												
13:00		150.00	1200.00	4.83	0.14	-16.70	91.90	101.49	19.40	Cloudy	None	Cannot get water level due to 3/4 inch diameter well casing
13:05		150.00	750.00	4.74	0.05	-26.20	37.60	101.70	19.41	Cloudy	None	
13:10		150.00	750.00	4.7	0.03	-31.30	21.40	101.96	19.40	Clear	None	
13:15		150.00	750.00	4.67	0.01	-33.90	11.80	102.06	19.52	Clear	None	
13:20		150.00	750.00	4.66	0.00	-38.20	6.10	102.17	19.50	Clear	None	
13:25		150.00	750.00	4.66	0.00	-41.30	5.14	102.19	19.40	Clear	None	
13:30		150.00	750.00	4.65	0.00	-44.00	3.09	102.28	19.34	Clear	None	
13:35		150.00	750.00	4.64	0.02	-46.00	2.76	102.41	19.56	Clear	None	
13:40		150.00	750.00	4.64	0.00	-48.70	2.11	102.43	19.57	Clear	None	
13:45		150.00	750.00	4.64	0.00	-51.30	2.07	102.57	19.83	Clear	None	

Screen Interval: 42.5-47.5

Sampling Data

Method: Low Flow
Field Filtered: No

Date: 10-09-2024 Time: 13:45

Purge Start Time: 12:52
Total Volume Purged (mL): 7950

Field Parameters

STABILIZED PARAMETERS	
pH	4.64
Spec. Cond. (µS/cm)	102.57
Turbidity (NTU)	2.07
Temp. (°C)	19.83
DO (mg/L)	0.00
ORP (mV)	-51.30

Sample ID: CAP4Q24-PZ-22-100924
DuplicateID: --
QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	71.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	6

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: SMW-10

Well Diameter: 2 Inches

Samplers: DEBORAH AYERS|SAIRA BOHAM

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 42

Pump Loc: within screen

Method: Peristaltic Pump

Date: 10-07-2024

Time: 12:50

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	3.627		
Initial Depth to Water (ft.):	29.43	Depth to Well Bottom (ft.):	52.1

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
13:10	29.43	110.00	550.00	7.24	0.42	31.90	6.41	85.87	21.93	Clear	No	
13:15	29.45	110.00	550.00	7.06	0.22	20.80	6.83	86.29	21.13	Clear	No	
13:20	29.44	110.00	550.00	6.59	0.23	13.10	5.19	84.59	20.98	Clear	No	
13:25	29.44	110.00	550.00	6.17	0.29	13.74	4.78	84.39	21.05	Clear	No	
13:30	29.44	110.00	550.00	5.82	0.31	6.30	4.35	83.71	20.85	Clear	No	
13:35	29.44	110.00	550.00	5.6	0.57	7.50	4.67	83.13	20.73	Clear	No	
13:40	29.44	110.00	550.00	5.31	0.52	11.40	4.11	83.29	20.89	Clear	No	
13:45	29.44	110.00	550.00	5	0.60	11.30	4.31	83.14	20.91	Clear	No	
13:50	29.44	110.00	550.00	4.9	0.62	9.30	3.86	83.01	20.73	Clear	No	
13:55	29.44	110.00	550.00	4.89	0.47	8.50	4.03	82.94	20.41	Clear	No	
14:00	29.44	110.00	550.00	4.75	0.43	6.50	4.03	82.73	20.59	Clear	No	
14:05	29.44	110.00	550.00	4.67	0.33	4.30	3.67	82.93	20.68	Clear	No	

Screen Interval: 39.0-49.0

Sampling Data

Method: Low Flow
Field Filtered: No

Date: 10-07-2024 Time: --

Purge Start Time: 13:05
Total Volume Purged (mL): 6600

Field Parameters

STABILIZED PARAMETERS	
pH	4.25
Spec. Cond.(µS/cm)	82.64
Turbidity (NTU)	2.52
Temp.(°C)	21.01
DO (mg/L)	0.15
ORP (mV)	-20.40

Sample ID: CAP4Q24-SMW-10-100724
DuplicateID: --
QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	81.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	8

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: SMW-10

Well Diameter: 2 Inches

Samplers: DEBORAH AYERS|SAIRA BOHAM

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 42

Pump Loc: within screen

Method: Peristaltic Pump

Date: 10-07-2024

Time: 14:18

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	3.627		
Initial Depth to Water (ft.):	29.43	Depth to Well Bottom (ft.):	52.1

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
14:10	29.44	110.00	7150.00	4.62	0.31	2.40	3.27	82.83	20.75	Clear	No	
14:15	29.44	110.00	550.00	4.63	0.30	0.90	3.25	82.72	20.52	Clear	No	
14:20	29.44	110.00	550.00	4.52	0.32	-1.00	3.18	82.85	20.83	Clear	No	
14:25	29.44	110.00	550.00	4.49	0.29	-2.20	3.45	82.98	20.80	Clear	No	
14:30	29.44	110.00	550.00	4.47	0.25	-4.40	2.85	82.76	20.93	Clear	No	
14:35	29.44	110.00	550.00	4.46	0.25	-5.50	3.37	82.34	20.72	Clear	No	
14:40	29.44	110.00	550.00	4.4	0.20	-6.80	3.11	82.82	20.83	Clear	No	
14:45	29.44	110.00	550.00	4.39	0.18	-8.50	2.31	82.82	20.85	Clear	No	
14:50	29.44	110.00	550.00	4.34	0.16	-10.60	2.14	82.70	20.96	Clear	No	
14:55	29.44	110.00	550.00	4.35	0.17	-12.60	2.24	82.49	20.71	Clear	No	
15:00	29.44	110.00	550.00	4.31	0.15	-15.90	2.30	82.84	21.01	Clear	No	
15:05	29.44	110.00	550.00	4.33	0.15	-16.60	2.56	82.72	20.93	Clear	No	
15:10	29.44	110.00	550.00	4.33	0.15	-18.60	3.12	82.46	20.58	Clear	No	
15:15	29.44	110.00	550.00	4.33	0.15	-18.30	2.87	82.64	20.62	Clear	No	
15:20	29.44	110.00	550.00	4.25	0.15	-20.40	2.52	82.64	21.01	Clear	No	

Screen Interval: 39.0-49.0

Sampling Data

Method: Low Flow

Date: 10-07-2024 Time: 15:20

Purge Start Time: 13:05

Field Filtered: No

Total Volume Purged (mL): 14850

Field Parameters

STABILIZED PARAMETERS	
pH	4.25
Spec. Cond.(µS/cm)	82.64
Turbidity (NTU)	2.52
Temp.(°C)	21.01
DO (mg/L)	0.15
ORP (mV)	-20.40

Sample ID: CAP4Q24-SMW-10-100724
 DuplicateID: --
 QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	81.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	8

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: SMW-11

Well Diameter: 2 Inches

Samplers: DEBORAH AYERS|SAIRA BOHAM

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 20

Pump Loc: within screen

Method: Peristaltic Pump

Date: 10-11-2024

Time: 09:43

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	1.672		
Initial Depth to Water (ft.):	15.35	Depth to Well Bottom (ft.):	25.8

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
09:50	15.41	200.00	1000.00	8.61	7.95	-28.20	6.20	7.29	16.17	Clear	No	
09:55	15.41	200.00	1000.00	8.28	8.24	-25.50	3.53	6.80	17.05	Clear	No	
10:00	15.41	200.00	1000.00	7.98	7.72	-25.70	2.78	6.05	17.57	Clear	No	
10:05	15.41	200.00	1000.00	7.85	7.48	-25.70	5.01	5.89	17.78	Clear	No	
10:10	15.41	200.00	1000.00	7.74	7.67	-25.60	4.74	5.84	18.01	Clear	No	

Screen Interval: 13.0-23.0

Sampling Data

Method: Low Flow

Date: 10-11-2024 Time: 10:10

Purge Start Time: 09:45

Field Filtered: No

Total Volume Purged (mL): 5000

Field Parameters

STABILIZED PARAMETERS	
pH	7.74
Spec. Cond.(µS/cm)	5.84
Turbidity (NTU)	4.74
Temp.(°C)	18.01
DO (mg/L)	7.67
ORP (mV)	-25.60

Sample ID: CAP4Q24-SMW-11-101124
 DuplicateID: --
 QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	54.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	10

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: SMW-12

Well Diameter: _____ Inches

Samplers: DEBORAH AYERS|KEN STUART

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 98

Pump Loc: within screen

Method: Double valve pump

Date: 10-10-2024

Time: 14:36

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0		
Initial Depth to Water (ft.):	86.68	Depth to Well Bottom (ft.):	102.07

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
15:00	86.68	60.00	600.00	5.15	2.60	227.90	29.10	145.47	21.23	Clear	Slight sulfur like	
15:05	86.68	160.00	750.00	5.38	0.73	180.20	26.00	150.92	19.14	Clear	Slight sulfur like	
15:10	86.68	160.00	750.00	5	0.83	232.20	19.54	149.83	18.97	Clear	Slight	
15:15	86.68	160.00	750.00	4.65	0.86	249.40	17.56	150.09	18.89	Clear	Slight	
15:20	86.68	160.00	750.00	4.55	0.87	253.60	15.64	150.50	18.80	Clear	Slight	

Screen Interval: 58 to 68

Sampling Data

Method: Low Flow

Date: 10-10-2024 Time: 15:20

Purge Start Time: 14:50

Field Filtered: No

Total Volume Purged (mL): 3600

Field Parameters

STABILIZED PARAMETERS	
pH	4.55
Spec. Cond.(µS/cm)	150.50
Turbidity (NTU)	15.64
Temp.(°C)	18.80
DO (mg/L)	0.87
ORP (mV)	253.60

Sample ID: CAP4Q24-SMW-12-101024
 DuplicateID: --
 QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	70.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	21

Appendix D

Laboratory Reports and DVM

Report



ADQM Data Review

Site: Chemours Fayetteville

Project: CAP GW Sampling 4Q24

Project Reviewer: Bridget Gavaghan



Sample Summary

Field Sample ID	Lab Sample ID	Sample Type	Filtered	Sample Date	Sample Time	Sample Purpose
CAP4Q24-EQBLK-PP-100924	320-116097-1	Blank Water	N	10/09/2024	12:50	EB
CAP4Q24-EQBLK-DV-100924	320-116097-2	Blank Water	N	10/09/2024	12:55	EB
CAP4Q24-EQBLK-BP-100924	320-116097-3	Blank Water	N	10/09/2024	13:00	EB
CAP4Q24-PW-09-100724	320-116097-4	Groundwater	N	10/07/2024	15:55	FS
CAP4Q24-SMW-10-100724	320-116097-5	Groundwater	N	10/07/2024	15:20	FS
CAP4Q24-PW-07-100724	320-116097-6	Groundwater	N	10/07/2024	12:35	FS
CAP4Q24-PW-04-100724	320-116097-7	Groundwater	N	10/07/2024	10:45	FS
CAP4Q24-LTW-02-100824	320-116097-8	Groundwater	N	10/08/2024	13:25	FS
CAP4Q24-OW-33-100824	320-116104-1	Groundwater	N	10/08/2024	12:30	FS
CAP4Q24-OW-33-100824-D	320-116104-2	Groundwater	N	10/08/2024	12:30	DUP
CAP4Q24-OW-28-100824	320-116104-3	Groundwater	N	10/08/2024	15:25	FS
CAP4Q24-PIW-1D-100824	320-116104-4	Groundwater	N	10/08/2024	12:10	FS
CAP4Q24-PIW-1S-100824	320-116104-5	Groundwater	N	10/08/2024	10:35	FS
CAP4Q24-PIW-3D-100824	320-116104-6	Groundwater	N	10/08/2024	14:10	FS
CAP4Q24-LTW-01-101024	320-116122-1	Groundwater	N	10/10/2024	10:05	FS
CAP4Q24-LTW-03-101024	320-116122-2	Groundwater	N	10/10/2024	13:25	FS
CAP4Q24-LTW-04-100924	320-116122-3	Groundwater	N	10/09/2024	12:30	FS
CAP4Q24-BLADEN-1DR-100924	320-116122-4	Groundwater	N	10/09/2024	10:40	FS
CAP4Q24-SMW-12-101024	320-116122-5	Groundwater	N	10/10/2024	15:20	FS
CAP4Q24-PW-06-100924	320-116122-6	Groundwater	N	10/09/2024	16:00	FS
CAP4Q24-LTW-05-100924	320-116140-1	Groundwater	N	10/09/2024	14:55	FS
CAP4Q24-LTW-05-100924-D	320-116140-2	Groundwater	N	10/09/2024	14:55	DUP
CAP4Q24-PZ-22-100924	320-116140-3	Groundwater	N	10/09/2024	13:45	FS
CAP4Q24-PIW-7S-100924	320-116140-4	Groundwater	N	10/09/2024	14:10	FS
CAP4Q24-PIW-7D-101024	320-116140-5	Groundwater	N	10/10/2024	11:35	FS
CAP4Q24-SMW-11-101124	320-116167-1	Groundwater	N	10/11/2024	10:10	FS

* FS=Field Sample
 DUP=Field Duplicate
 FB=Field Blank
 EB=Equipment Blank
 TB=Trip Blank



Analytical Protocol

Lab Name	Lab Method	Parameter Category	Sampling Program
Eurofins Environ Testing Northern Cali	537 Modified	Per- and Polyfluorinated Alkyl Substances (PFAS)	CAP GW Sampling 4Q24



ADQM Data Review Checklist

Item	Description	Yes	No*	DVM Narrative Report	Laboratory Report	Exception Report (ER) #
A	Did samples meet laboratory acceptability requirements upon receipt (i.e., intact, within temperature, properly preserved, and no headspace where applicable)?	X				
B	Were samples received by the laboratory in agreement with the associated chain of custody?		X		X	
C	Was the chain of custody properly completed by the laboratory and/or field team?	X				
D	Were samples prepped/analyzed by the laboratory within method holding times?		X	X	X	
E	Were data review criteria met for method blanks, LCSs/LCSDs, MSs/MSDs, PDSs, SDs, replicates, surrogates, sample results within calibration range, total/dissolved samples, field duplicates, field/equipment/trip blanks?		X	X	X	
F	Temperature upon laboratory receipt meets range not frozen to 6 C (manual check)?	X				
G	Were all data usable and not R qualified?	X				
ER#	Description					
Other QA/QC Items to Note:						

* See DVM Narrative Report, Laboratory Report, and/or ER # for further details as indicated.

The electronic data submitted for this project were reviewed via the Data Verification Module (DVM) process. Overall, the data are acceptable for use without qualification, except as noted on the attached DVM Narrative Report.

The lab reports due to a large page count are stored on a network shared drive and are available to be posted on external shared drives, or on a flash drive.



Data Verification Module (DVM)

The DVM is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software, Locus EIM™ database Data Verification Module (DVM), and manual reviewer evaluations. The data are evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike (MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- Difference/RPD between field duplicate sample pairs
- RPD between laboratory replicates for inorganic analyses
- Difference/percent difference between total and dissolved sample pairs
- Temperature upon laboratory receipt meets the range of not frozen to 6°C with a target of 4°C (manual check)

There are two qualifier fields in EIM:

Laboratory Qualifier is the qualifier assigned by the laboratory and may not reflect the usability of the data. This qualifier may have many different meanings and can vary between labs and over time within the same lab. Please refer to the laboratory report for a description of the laboratory qualifiers. As they are laboratory descriptors they are not to be used when evaluating the data.

Validation Qualifier is the 3rd party formal validation qualifier if this was performed. Otherwise this field contains the qualifier resulting from the ADQM DVM review process. This qualifier assesses the usability of the data and may not equal the laboratory qualifier. The DVM applies the following data evaluation qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

The **Validation Status Code** field is set to “DVM” if the ADQM DVM process has been performed. If the DVM has not been run, the field will be blank.

If the DVM has been run (**Validation Status Code** equals “DVM”), use the **Validation Qualifier**.

If the data have been validated by a third party, the field “**Validated By**” will be set to the validator (e.g., ESI for Environmental Standards, Inc.).

DVM Narrative Report

Site: Fayetteville

Sampling Program: CAP GW Sampling 4Q24

Validation Options:

LABSTATS

Validation Reason Code: The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluorohexadecanoic Acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluorononanesulfonic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Hydro-PS Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluorododecane Sulfonic Acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	NVHOS, Acid Form	0.0030	UG/L	PQL		0.0030	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluoropentane Sulfonic Acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	6:2 Fluorotelomer Sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluorohexanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	PFOA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535

Validation Reason Code: The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluoroheptanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluoroheptane Sulfonic Acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluoro(2-ethoxyethane)sulfonic	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Hydrolyzed PSDA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	R-PSDCA	0.0030	UG/L	PQL		0.0030	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535

Site: Fayetteville

Sampling Program: CAP GW Sampling 4Q24

Validation Options: LABSTATS

Validation Reason Code: The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535

Site: Fayetteville

Sampling Program: CAP GW Sampling 4Q24

Validation Options: LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP4Q24-SMW-11-101124	10/11/2024	320-116167-1	PFO2HxA	1.9	ug/L	PQL		0.069	J	537 Modified		3535
CAP4Q24-SMW-11-101124	10/11/2024	320-116167-1	PFMOAA	1.9	ug/L	PQL		0.051	J	537 Modified		3535

Validation Reason Code: High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP4Q24-LTW-05-100924	10/09/2024	320-116140-1	R-PSDA	0.69	UG/L	PQL		0.035	J	537 Modified		3535
CAP4Q24-LTW-05-100924	10/09/2024	320-116140-1	PEPA	0.41	UG/L	PQL		0.060	J	537 Modified		3535
CAP4Q24-LTW-05-100924	10/09/2024	320-116140-1	Perfluoropentanoic Acid	1.2	UG/L	PQL		0.061	J	537 Modified		3535
CAP4Q24-LTW-05-100924	10/09/2024	320-116140-1	Perfluoroheptanoic Acid	0.14	UG/L	PQL		0.031	J	537 Modified		3535
CAP4Q24-LTW-05-100924	10/09/2024	320-116140-1	PFO2HxA	27	ug/L	PQL		0.069	J	537 Modified		3535
CAP4Q24-LTW-05-100924	10/09/2024	320-116140-1	PFO3OA	6.6	ug/L	PQL		0.11	J	537 Modified		3535
CAP4Q24-LTW-05-100924	10/09/2024	320-116140-1	PPF Acid	44	UG/L	PQL		0.31	J	537 Modified		3535
CAP4Q24-LTW-05-100924	10/09/2024	320-116140-1	PFMOAA	73	ug/L	PQL		0.26	J	537 Modified		3535
CAP4Q24-LTW-05-100924	10/09/2024	320-116140-1	Hydro-EVE Acid	0.49	UG/L	PQL		0.030	J	537 Modified		3535
CAP4Q24-LTW-05-100924	10/09/2024	320-116140-1	NVHOS, Acid Form	0.88	UG/L	PQL		0.16	J	537 Modified		3535
CAP4Q24-LTW-05-100924-D	10/09/2024	320-116140-2	R-PSDA	0.44	UG/L	PQL		0.035	J	537 Modified		3535
CAP4Q24-LTW-05-100924-D	10/09/2024	320-116140-2	PEPA	0.27	UG/L	PQL		0.060	J	537 Modified		3535
CAP4Q24-LTW-05-100924-D	10/09/2024	320-116140-2	Perfluoropentanoic Acid	0.82	UG/L	PQL		0.061	J	537 Modified		3535
CAP4Q24-LTW-05-100924-D	10/09/2024	320-116140-2	Perfluoroheptanoic Acid	0.091	UG/L	PQL		0.031	J	537 Modified		3535
CAP4Q24-LTW-05-100924-D	10/09/2024	320-116140-2	PFO2HxA	19	ug/L	PQL		0.069	J	537 Modified		3535
CAP4Q24-LTW-05-100924-D	10/09/2024	320-116140-2	PFO3OA	4.7	ug/L	PQL		0.11	J	537 Modified		3535
CAP4Q24-LTW-05-100924-D	10/09/2024	320-116140-2	PPF Acid	32	UG/L	PQL		0.31	J	537 Modified		3535
CAP4Q24-LTW-05-100924-D	10/09/2024	320-116140-2	PFMOAA	49	ug/L	PQL		0.26	J	537 Modified		3535
CAP4Q24-LTW-05-100924-D	10/09/2024	320-116140-2	Hydro-EVE Acid	0.36	UG/L	PQL		0.030	J	537 Modified		3535
CAP4Q24-LTW-05-100924-D	10/09/2024	320-116140-2	NVHOS, Acid Form	0.63	UG/L	PQL		0.16	J	537 Modified		3535

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP4Q24-LTW-01-101024	10/10/2024	320-116122-1	R-PSDA	0.49	UG/L	PQL		0.035	J	537 Modified		3535
CAP4Q24-LTW-01-101024	10/10/2024	320-116122-1	Hydrolyzed PSDA	0.090	UG/L	PQL		0.034	J	537 Modified		3535
CAP4Q24-LTW-01-101024	10/10/2024	320-116122-1	R-EVE	0.17	UG/L	PQL		0.039	J	537 Modified		3535
CAP4Q24-LTW-02-100824	10/08/2024	320-116097-8	R-PSDA	1.3	UG/L	PQL		0.035	J	537 Modified		3535
CAP4Q24-LTW-02-100824	10/08/2024	320-116097-8	Hydrolyzed PSDA	2.9	UG/L	PQL		0.034	J	537 Modified		3535
CAP4Q24-LTW-02-100824	10/08/2024	320-116097-8	R-EVE	0.88	UG/L	PQL		0.039	J	537 Modified		3535
CAP4Q24-LTW-03-101024	10/10/2024	320-116122-2	R-PSDA	0.63	UG/L	PQL		0.035	J	537 Modified		3535
CAP4Q24-LTW-03-101024	10/10/2024	320-116122-2	Hydrolyzed PSDA	5.4	UG/L	PQL		0.034	J	537 Modified		3535
CAP4Q24-LTW-03-101024	10/10/2024	320-116122-2	R-EVE	0.26	UG/L	PQL		0.039	J	537 Modified		3535
CAP4Q24-LTW-04-100924	10/09/2024	320-116122-3	R-PSDA	1.2	UG/L	PQL		0.035	J	537 Modified		3535
CAP4Q24-LTW-04-100924	10/09/2024	320-116122-3	Hydrolyzed PSDA	1.8	UG/L	PQL		0.034	J	537 Modified		3535
CAP4Q24-LTW-04-100924	10/09/2024	320-116122-3	R-EVE	0.95	UG/L	PQL		0.039	J	537 Modified		3535
CAP4Q24-LTW-05-100924	10/09/2024	320-116140-1	Hydrolyzed PSDA	1.2	UG/L	PQL		0.034	J	537 Modified		3535
CAP4Q24-LTW-05-100924	10/09/2024	320-116140-1	R-EVE	0.80	UG/L	PQL		0.039	J	537 Modified		3535
CAP4Q24-LTW-05-100924-D	10/09/2024	320-116140-2	Hydrolyzed PSDA	0.95	UG/L	PQL		0.034	J	537 Modified		3535
CAP4Q24-LTW-05-100924-D	10/09/2024	320-116140-2	R-EVE	0.61	UG/L	PQL		0.039	J	537 Modified		3535
CAP4Q24-OW-28-100824	10/08/2024	320-116104-3	R-PSDA	0.36	UG/L	PQL		0.035	J	537 Modified		3535
CAP4Q24-OW-28-100824	10/08/2024	320-116104-3	R-EVE	0.16	UG/L	PQL		0.039	J	537 Modified		3535
CAP4Q24-OW-33-100824	10/08/2024	320-116104-1	R-PSDA	0.36	UG/L	PQL		0.035	J	537 Modified		3535
CAP4Q24-OW-33-100824	10/08/2024	320-116104-1	Hydrolyzed PSDA	0.062	UG/L	PQL		0.034	J	537 Modified		3535
CAP4Q24-OW-33-100824	10/08/2024	320-116104-1	R-EVE	0.23	UG/L	PQL		0.039	J	537 Modified		3535
CAP4Q24-OW-33-100824-D	10/08/2024	320-116104-2	R-PSDA	0.30	UG/L	PQL		0.035	J	537 Modified		3535
CAP4Q24-OW-33-100824-D	10/08/2024	320-116104-2	Hydrolyzed PSDA	0.054	UG/L	PQL		0.034	J	537 Modified		3535

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP4Q24-OW-33-100824-D	10/08/2024	320-116104-2	R-EVE	0.22	UG/L	PQL		0.039	J	537 Modified		3535
CAP4Q24-PIW-1D-100824	10/08/2024	320-116104-4	R-PSDA	0.29	UG/L	PQL		0.035	J	537 Modified		3535
CAP4Q24-PIW-1D-100824	10/08/2024	320-116104-4	R-EVE	0.15	UG/L	PQL		0.039	J	537 Modified		3535
CAP4Q24-PIW-1S-100824	10/08/2024	320-116104-5	R-PSDA	0.15	UG/L	PQL		0.035	J	537 Modified		3535
CAP4Q24-PIW-3D-100824	10/08/2024	320-116104-6	R-PSDA	1.1	UG/L	PQL		0.035	J	537 Modified		3535
CAP4Q24-PIW-3D-100824	10/08/2024	320-116104-6	Hydrolyzed PSDA	0.18	UG/L	PQL		0.034	J	537 Modified		3535
CAP4Q24-PIW-3D-100824	10/08/2024	320-116104-6	R-EVE	0.51	UG/L	PQL		0.039	J	537 Modified		3535
CAP4Q24-PIW-7D-101024	10/10/2024	320-116140-5	R-PSDA	0.40	UG/L	PQL		0.035	J	537 Modified		3535
CAP4Q24-PIW-7D-101024	10/10/2024	320-116140-5	Hydrolyzed PSDA	0.80	UG/L	PQL		0.034	J	537 Modified		3535
CAP4Q24-PIW-7D-101024	10/10/2024	320-116140-5	R-EVE	0.51	UG/L	PQL		0.039	J	537 Modified		3535
CAP4Q24-PIW-7S-100924	10/09/2024	320-116140-4	R-PSDA	0.60	UG/L	PQL		0.035	J	537 Modified		3535
CAP4Q24-PIW-7S-100924	10/09/2024	320-116140-4	R-EVE	0.68	UG/L	PQL		0.039	J	537 Modified		3535
CAP4Q24-PW-04-100724	10/07/2024	320-116097-7	R-PSDA	0.068	UG/L	PQL		0.035	J	537 Modified		3535
CAP4Q24-PW-07-100724	10/07/2024	320-116097-6	R-PSDA	0.14	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-PW-07-100724	10/07/2024	320-116097-6	R-EVE	0.15	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-PZ-22-100924	10/09/2024	320-116140-3	R-PSDA	0.37	UG/L	PQL		0.035	J	537 Modified		3535
CAP4Q24-PZ-22-100924	10/09/2024	320-116140-3	Hydrolyzed PSDA	1.1	UG/L	PQL		0.034	J	537 Modified		3535
CAP4Q24-PZ-22-100924	10/09/2024	320-116140-3	R-EVE	0.29	UG/L	PQL		0.039	J	537 Modified		3535
CAP4Q24-SMW-11-101124	10/11/2024	320-116167-1	R-PSDA	0.057	UG/L	PQL		0.035	J	537 Modified		3535
CAP4Q24-SMW-11-101124	10/11/2024	320-116167-1	R-EVE	0.042	UG/L	PQL		0.039	J	537 Modified		3535
CAP4Q24-SMW-12-101024	10/10/2024	320-116122-5	R-PSDA	0.084	UG/L	PQL		0.035	J	537 Modified		3535
CAP4Q24-SMW-12-101024	10/10/2024	320-116122-5	R-EVE	0.062	UG/L	PQL		0.039	J	537 Modified		3535

Site: Fayetteville

Sampling Program: CAP GW Sampling 4Q24

Validation Options: LABSTATS

Validation Reason Code: The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	PPF Acid	0.22	UG/L	PQL		0.0050	J	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	PFMOAA	0.029	ug/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	PEPA	0.097	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Perfluoropentanoic Acid	0.0035	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	R-EVE	0.0040	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	PMPA	0.33	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	Hfpo Dimer Acid	0.16	UG/L	PQL		0.0040	J	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	PFO2HxA	0.11	ug/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	PFO3OA	0.012	ug/L	PQL		0.0020	J	537 Modified		3535

Site: Fayetteville

Sampling Program: CAP GW Sampling 4Q24

Validation Options: LABSTATS

Validation Reason Code: Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP4Q24-BLADEN-1DR-100924	10/09/2024	320-116122-4	R-PSDA	0.0089	UG/L	PQL		0.0020	J	537 Modified		3535



ADQM Data Review

Site: Chemours Fayetteville

Project: CAP SW Sampling 4Q24

Project Reviewer: Bridget Gavaghan



Sample Summary

Field Sample ID	Lab Sample ID	Sample Type	Filtered	Sample Date	Sample Time	Sample Purpose
CAP4Q24-WC-2-24-102424	320-116513-1	Surface Water	N	10/24/2024	07:00	FS
CAP4Q24-WC-1-24-102424	320-116513-2	Surface Water	N	10/24/2024	07:00	FS
CAP4Q24-WC-1-24-102424-D	320-116513-3	Surface Water	N	10/24/2024	07:00	DUP
CAP4Q24-LOCK-DAM-SEEP-102324	320-116513-4	Surface Water	N	10/23/2024	12:20	FS
CAP4Q24-EQBLK-IS-102424	320-116525-1	Blank Water	N	10/24/2024	14:00	EB
CAP4Q24-EQBLK-PP-SW-102424	320-116525-2	Blank Water	N	10/24/2024	15:15	EB
CAP4Q24-OUTFALL-002-24-102424	320-116525-3	Surface Water	N	10/24/2024	10:15	FS
CAP4Q24-OLDOF-1-24-102424	320-116525-4	Surface Water	N	10/24/2024	11:34	FS
CAP4Q24-WC-3-24-102424	320-116525-5	Surface Water	N	10/24/2024	07:00	FS
CAP4Q24-LOCK-DAM-NORTH-102324	320-116530-1	Surface Water	N	10/23/2024	13:20	FS
CAP4Q24-CFR-RM-76-102324	320-116530-2	Surface Water	N	10/23/2024	09:05	FS
CAP4Q24-GBC-1-102324	320-116530-3	Surface Water	N	10/23/2024	15:20	FS
RIVER-WATER-INTAKE-24-102424	320-116530-4	Surface Water	N	10/24/2024	07:06	FS
CAP4Q24-CFR-BLADEN-102424	320-116530-5	Surface Water	N	10/24/2024	09:15	FS
CAP4Q24-CFR-TARHEEL-102424	320-116530-6	Surface Water	N	10/24/2024	09:50	FS
CAP4Q24-CFR-KINGS-102424	320-116530-7	Surface Water	N	10/24/2024	12:15	FS
CAP4Q24-CFR-TARHEEL-24-102424	320-116573-1	Surface Water	N	10/24/2024	23:24	FS

* FS=Field Sample
 DUP=Field Duplicate
 FB=Field Blank
 EB=Equipment Blank
 TB=Trip Blank



Analytical Protocol

Lab Name	Lab Method	Parameter Category	Sampling Program
Eurofins Environ Testing Northern Cali	537 Modified	Per- and Polyfluorinated Alkyl Substances (PFAS)	CAP SW Sampling 4Q24



ADQM Data Review Checklist

Item	Description	Yes	No*	DVM Narrative Report	Laboratory Report	Exception Report (ER) #
A	Did samples meet laboratory acceptability requirements upon receipt (i.e., intact, within temperature, properly preserved, and no headspace where applicable)?	X				
B	Were samples received by the laboratory in agreement with the associated chain of custody?		X		X	
C	Was the chain of custody properly completed by the laboratory and/or field team?	X				
D	Were samples prepped/analyzed by the laboratory within method holding times?	X				
E	Were data review criteria met for method blanks, LCSs/LCSDs, MSs/MSDs, PDSs, SDs, replicates, surrogates, sample results within calibration range, total/dissolved samples, field duplicates, field/equipment/trip blanks?		X	X	X	
F	Temperature upon laboratory receipt meets range not frozen to 6 C (manual check)?	X				
G	Were all data usable and not R qualified?	X				
ER#	Description					
Other QA/QC Items to Note:						

* See DVM Narrative Report, Laboratory Report, and/or ER # for further details as indicated.

The electronic data submitted for this project were reviewed via the Data Verification Module (DVM) process. Overall, the data are acceptable for use without qualification, except as noted on the attached DVM Narrative Report.

The lab reports due to a large page count are stored on a network shared drive and are available to be posted on external shared drives, or on a flash drive.



Data Verification Module (DVM)

The DVM is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software, Locus EIM™ database Data Verification Module (DVM), and manual reviewer evaluations. The data are evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike (MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- Difference/RPD between field duplicate sample pairs
- RPD between laboratory replicates for inorganic analyses
- Difference/percent difference between total and dissolved sample pairs
- Temperature upon laboratory receipt meets the range of not frozen to 6°C with a target of 4°C (manual check)

There are two qualifier fields in EIM:

Laboratory Qualifier is the qualifier assigned by the laboratory and may not reflect the usability of the data. This qualifier may have many different meanings and can vary between labs and over time within the same lab. Please refer to the laboratory report for a description of the laboratory qualifiers. As they are laboratory descriptors they are not to be used when evaluating the data.

Validation Qualifier is the 3rd party formal validation qualifier if this was performed. Otherwise this field contains the qualifier resulting from the ADQM DVM review process. This qualifier assesses the usability of the data and may not equal the laboratory qualifier. The DVM applies the following data evaluation qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

The **Validation Status Code** field is set to “DVM” if the ADQM DVM process has been performed. If the DVM has not been run, the field will be blank.

If the DVM has been run (**Validation Status Code** equals “DVM”), use the **Validation Qualifier**.

If the data have been validated by a third party, the field “**Validated By**” will be set to the validator (e.g., ESI for Environmental Standards, Inc.).

DVM Narrative Report

Site: Fayetteville

Sampling Program: CAP SW Sampling 4Q24

Validation Options: LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP4Q24-CFR-TARHEEL-24-102424	10/24/2024	280-198735-1	NVHOS, Acid Form	0.0030	UG/L	PQL		0.0030	UJ	537 Modified		3535
CAP4Q24-CFR-TARHEEL-24-102424	10/24/2024	280-198735-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535

Site: Fayetteville

Sampling Program: CAP SW Sampling 4Q24

Validation Options: LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP4Q24-WC-1-24-102424	10/24/2024	320-116513-2	R-EVE	0.070	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-CFR-TARHEEL-24-102424	10/24/2024	280-198735-1	R-EVE	0.0039	UG/L	PQL		0.0020	J	537 Modified		3535

Site: Fayetteville

Sampling Program: CAP SW Sampling 4Q24

Validation Options: LABSTATS

Validation Reason Code: High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP4Q24-WC-1-24-102424	10/24/2024	320-116513-2	NVHOS, Acid Form	0.0099	UG/L	PQL		0.0030	J	537 Modified		3535
CAP4Q24-WC-1-24-102424-D	10/24/2024	320-116513-3	NVHOS, Acid Form	0.016	UG/L	PQL		0.0030	J	537 Modified		3535

Site: Fayetteville

Sampling Program: CAP SW Sampling 4Q24

Validation Options: LABSTATS

Validation Reason Code: Only one surrogate has relative percent recovery (RPR) values outside control limits and the parameter is a PFC (Detects).

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP4Q24-CFR-TARHEEL-24-102424	10/24/2024	280-198735-1	PPF Acid	0.031	UG/L	PQL		0.0050	J	537 Modified		3535

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP4Q24-GBC-1-102324	10/23/2024	320-116530-3	R-PSDA	0.070	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-GBC-1-102324	10/23/2024	320-116530-3	R-EVE	0.070	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-LOCK-DAM-NORTH-102324	10/23/2024	320-116530-1	R-PSDA	0.27	UG/L	PQL		0.035	J	537 Modified		3535
CAP4Q24-LOCK-DAM-NORTH-102324	10/23/2024	320-116530-1	R-EVE	0.18	UG/L	PQL		0.039	J	537 Modified		3535
CAP4Q24-LOCK-DAM-SEEP-102324	10/23/2024	320-116513-4	R-PSDA	0.79	UG/L	PQL		0.035	J	537 Modified		3535
CAP4Q24-LOCK-DAM-SEEP-102324	10/23/2024	320-116513-4	Hydrolyzed PSDA	0.78	UG/L	PQL		0.034	J	537 Modified		3535
CAP4Q24-LOCK-DAM-SEEP-102324	10/23/2024	320-116513-4	R-EVE	0.27	UG/L	PQL		0.039	J	537 Modified		3535
CAP4Q24-OLDOF-1-24-102424	10/24/2024	320-116525-4	R-PSDA	0.11	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-OLDOF-1-24-102424	10/24/2024	320-116525-4	Hydrolyzed PSDA	0.099	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-OLDOF-1-24-102424	10/24/2024	320-116525-4	R-EVE	0.047	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-OUTFALL-002-24-102424	10/24/2024	320-116525-3	R-PSDA	0.076	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-OUTFALL-002-24-102424	10/24/2024	320-116525-3	Hydrolyzed PSDA	0.11	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-OUTFALL-002-24-102424	10/24/2024	320-116525-3	R-EVE	0.030	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-WC-1-24-102424	10/24/2024	320-116513-2	R-PSDA	0.15	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-WC-1-24-102424	10/24/2024	320-116513-2	Hydrolyzed PSDA	0.34	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-WC-1-24-102424-D	10/24/2024	320-116513-3	R-PSDA	0.18	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-WC-1-24-102424-D	10/24/2024	320-116513-3	Hydrolyzed PSDA	0.32	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-WC-1-24-102424-D	10/24/2024	320-116513-3	R-EVE	0.059	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-WC-2-24-102424	10/24/2024	320-116513-1	R-PSDA	0.11	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-WC-2-24-102424	10/24/2024	320-116513-1	Hydrolyzed PSDA	0.030	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-WC-2-24-102424	10/24/2024	320-116513-1	R-EVE	0.056	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-WC-3-24-102424	10/24/2024	320-116525-5	R-PSDA	0.067	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-WC-3-24-102424	10/24/2024	320-116525-5	R-EVE	0.029	UG/L	PQL		0.0020	J	537 Modified		3535

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
RIVER-WATER-INTAKE-24-102424	10/24/2024	320-116530-4	R-PSDA	0.021	UG/L	PQL		0.0020	J	537 Modified		3535
RIVER-WATER-INTAKE-24-102424	10/24/2024	320-116530-4	Hydrolyzed PSDA	0.026	UG/L	PQL		0.0020	J	537 Modified		3535
RIVER-WATER-INTAKE-24-102424	10/24/2024	320-116530-4	R-EVE	0.0083	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-CFR-BLADEN-102424	10/24/2024	320-116530-5	R-PSDA	0.0093	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-CFR-BLADEN-102424	10/24/2024	320-116530-5	Hydrolyzed PSDA	0.0048	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-CFR-BLADEN-102424	10/24/2024	320-116530-5	R-EVE	0.0043	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-CFR-KINGS-102424	10/24/2024	320-116530-7	R-PSDA	0.022	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-CFR-KINGS-102424	10/24/2024	320-116530-7	Hydrolyzed PSDA	0.0053	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-CFR-KINGS-102424	10/24/2024	320-116530-7	R-EVE	0.029	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-CFR-RM-76-102324	10/23/2024	320-116530-2	R-PSDA	0.0038	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-CFR-TARHEEL-102424	10/24/2024	320-116530-6	R-PSDA	0.0098	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-CFR-TARHEEL-102424	10/24/2024	320-116530-6	Hydrolyzed PSDA	0.0047	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-CFR-TARHEEL-102424	10/24/2024	320-116530-6	R-EVE	0.0037	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-CFR-TARHEEL-24-102424	10/24/2024	320-116573-1	R-PSDA	0.0061	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-CFR-TARHEEL-24-102424	10/24/2024	320-116573-1	Hydrolyzed PSDA	0.0040	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-CFR-TARHEEL-24-102424	10/24/2024	320-116573-1	R-EVE	0.0023	UG/L	PQL		0.0020	J	537 Modified		3535

Site: Fayetteville

Sampling Program: CAP SW Sampling 4Q24

Validation Options: LABSTATS

Validation Reason Code: Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP4Q24-CFR-TARHEEL-24-102424	10/24/2024	280-198735-1	R-PSDA	0.0074	UG/L	PQL		0.0020	J	537 Modified		3535
CAP4Q24-CFR-TARHEEL-24-102424	10/24/2024	280-198735-1	Hydrolyzed PSDA	0.0038	UG/L	PQL		0.0020	J	537 Modified		3535



ADQM Data Review

Site: Chemours Fayetteville

Project: 2024 Tarheel Sampling 4Q24

Project Reviewer: Bridget Gavaghan



Sample Summary

Field Sample ID	Lab Sample ID	Sample Type	Filtered	Sample Date	Sample Time	Sample Purpose
CFR-TARHEEL-100124	320-116063-1	Surface Water	N	10/01/2024	11:38	FS
CFR-TARHEEL-24-100324	320-116063-2	Surface Water	N	10/03/2024	23:01	FS
CFR-TARHEEL-24-100724	320-116166-1	Surface Water	N	10/07/2024	23:01	FS
CFR-TARHEEL-24-100924	320-116166-2	Surface Water	N	10/09/2024	23:01	FS
CFR-TARHEEL-24-100924-D	320-116166-3	Surface Water	N	10/09/2024	23:01	DUP
CFR-TARHEEL-24-101524	320-116344-1	Surface Water	N	10/15/2024	23:01	FS
CFR-TARHEEL-24-101724	320-116344-2	Surface Water	N	10/17/2024	23:01	FS
CFR-TARHEEL-24-102124	320-116575-1	Surface Water	N	10/21/2024	23:01	FS
CFR-TARHEEL-24-102424	320-116575-2	Surface Water	N	10/24/2024	23:01	FS
CFR-TARHEEL-24-110424	320-117045-1	Surface Water	N	11/04/2024	23:01	FS
CFR-TARHEEL-24-110724	320-117045-2	Surface Water	N	11/07/2024	23:01	FS
CFR-TARHEEL-24-111124	320-117161-1	Surface Water	N	11/11/2024	23:01	FS
CFR-TARHEEL-24-111124-D	320-117161-2	Surface Water	N	11/11/2024	23:01	DUP
CFR-TARHEEL-24-111424	320-117161-3	Surface Water	N	11/14/2024	23:01	FS
CFR-TARHEEL-13-111824	320-117392-1	Surface Water	N	11/18/2024	12:01	FS
CFR-TARHEEL-112124	320-117392-2	Surface Water	N	11/21/2024	09:37	FS
CFR-TARHEEL-24-112524	320-117449-1	Surface Water	N	11/25/2024	23:01	FS
CFR-TARHEEL-24-112724	320-117449-2	Surface Water	N	11/27/2024	23:01	FS
CFR-TARHEEL-24-120224	320-117637-1	Surface Water	N	12/02/2024	23:01	FS
CFR-TARHEEL-24-120524	320-117637-2	Surface Water	N	12/05/2024	23:01	FS
CFR-TARHEEL-24-121024	320-117750-1	Surface Water	N	12/10/2024	23:01	FS
CFR-TARHEEL-24-121224	320-117750-2	Surface Water	N	12/12/2024	23:01	FS
CFR-TARHEEL-24-121624	320-117886-1	Surface Water	N	12/16/2024	23:01	FS
CFR-TARHEEL-24-121624-D	320-117886-2	Surface Water	N	12/16/2024	23:01	DUP
CFR-TARHEEL-24-121824	320-117886-3	Surface Water	N	12/18/2024	23:01	FS
CFR-TARHEEL-24-122324	320-118070-1	Surface Water	N	12/23/2024	23:01	FS
CFR-TARHEEL-24-122624	320-118070-2	Surface Water	N	12/26/2024	23:01	FS
CFR-TARHEEL-123024	320-118070-3	Surface Water	N	12/30/2024	12:35	FS
CFR-TARHEEL-24-010225	320-118070-4	Surface Water	N	01/02/2025	23:01	FS

* FS=Field Sample
 DUP=Field Duplicate
 FB=Field Blank
 EB=Equipment Blank
 TB=Trip Blank



Analytical Protocol

Lab Name	Lab Method	Parameter Category	Sampling Program
Eurofins Environ Testing Northern Cali	537 Modified	Per- and Polyfluorinated Alkyl Substances (PFAS)	2024 Tarheel Sampling



ADQM Data Review Checklist

Item	Description	Yes	No*	DVM Narrative Report	Laboratory Report	Exception Report (ER) #
A	Did samples meet laboratory acceptability requirements upon receipt (i.e., intact, within temperature, properly preserved, and no headspace where applicable)?	X				
B	Were samples received by the laboratory in agreement with the associated chain of custody?		X		X	
C	Was the chain of custody properly completed by the laboratory and/or field team?	X				
D	Were samples prepped/analyzed by the laboratory within method holding times?	X				
E	Were data review criteria met for method blanks, LCSs/LCSDs, MSs/MSDs, PDSs, SDs, replicates, surrogates, sample results within calibration range, total/dissolved samples, field duplicates, field/equipment/trip blanks?		X	X	X	
F	Temperature upon laboratory receipt meets range not frozen to 6 C (manual check)?	X				
G	Were all data usable and not R qualified?	X				
ER#	Description					
Other QA/QC Items to Note:						

* See DVM Narrative Report, Laboratory Report, and/or ER # for further details as indicated.

The electronic data submitted for this project were reviewed via the Data Verification Module (DVM) process. Overall, the data are acceptable for use without qualification, except as noted on the attached DVM Narrative Report.

The lab reports due to a large page count are stored on a network shared drive and are available to be posted on external shared drives, or on a flash drive.



Data Verification Module (DVM)

The DVM is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software, Locus EIM™ database Data Verification Module (DVM), and manual reviewer evaluations. The data are evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike (MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- Difference/RPD between field duplicate sample pairs
- RPD between laboratory replicates for inorganic analyses
- Difference/percent difference between total and dissolved sample pairs
- Temperature upon laboratory receipt meets the range of not frozen to 6°C with a target of 4°C (manual check)

There are two qualifier fields in EIM:

Laboratory Qualifier is the qualifier assigned by the laboratory and may not reflect the usability of the data. This qualifier may have many different meanings and can vary between labs and over time within the same lab. Please refer to the laboratory report for a description of the laboratory qualifiers. As they are laboratory descriptors they are not to be used when evaluating the data.

Validation Qualifier is the 3rd party formal validation qualifier if this was performed. Otherwise this field contains the qualifier resulting from the ADQM DVM review process. This qualifier assesses the usability of the data and may not equal the laboratory qualifier. The DVM applies the following data evaluation qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

The **Validation Status Code** field is set to “DVM” if the ADQM DVM process has been performed. If the DVM has not been run, the field will be blank.

If the DVM has been run (**Validation Status Code** equals “DVM”), use the **Validation Qualifier**.

If the data have been validated by a third party, the field “**Validated By**” will be set to the validator (e.g., ESI for Environmental Standards, Inc.).

DVM Narrative Report

Site: Fayetteville

Sampling Program: 2024 Tarheel Sampling

Validation Options: LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-TARHEEL-24-101524	10/15/2024	320-116344-1	R-PSDA	0.0085	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-101524	10/15/2024	320-116344-1	Hydrolyzed PSDA	0.0035	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-101524	10/15/2024	320-116344-1	R-EVE	0.0031	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-102424	10/24/2024	320-116575-2	R-PSDA	0.0060	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-102424	10/24/2024	320-116575-2	Hydrolyzed PSDA	0.0042	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-102424	10/24/2024	320-116575-2	R-EVE	0.0022	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-111124	11/11/2024	320-117161-1	R-PSDA	0.0098	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-111124	11/11/2024	320-117161-1	Hydrolyzed PSDA	0.0063	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-111124	11/11/2024	320-117161-1	R-EVE	0.0036	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-112724	11/27/2024	320-117449-2	R-PSDA	0.0043	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-112724	11/27/2024	320-117449-2	Hydrolyzed PSDA	0.0044	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-112724	11/27/2024	320-117449-2	R-EVE	0.0022	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-120524	12/05/2024	320-117637-2	R-PSDA	0.0082	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-120524	12/05/2024	320-117637-2	Hydrolyzed PSDA	0.010	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-120524	12/05/2024	320-117637-2	R-EVE	0.0028	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-121624	12/16/2024	320-117886-1	R-PSDA	0.0033	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-121624	12/16/2024	320-117886-1	Hydrolyzed PSDA	0.0046	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-122324	12/23/2024	320-118070-1	Hydrolyzed PSDA	0.0025	UG/L	PQL		0.0020	J	537 Modified		3535

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-TARHEEL-24-101724	10/17/2024	320-116344-2	R-PSDA	0.012	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-101724	10/17/2024	320-116344-2	Hydrolyzed PSDA	0.0043	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-101724	10/17/2024	320-116344-2	R-EVE	0.0039	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-102124	10/21/2024	320-116575-1	R-PSDA	0.0058	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-102124	10/21/2024	320-116575-1	Hydrolyzed PSDA	0.0031	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-110424	11/04/2024	320-117045-1	R-PSDA	0.011	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-110424	11/04/2024	320-117045-1	Hydrolyzed PSDA	0.0042	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-110424	11/04/2024	320-117045-1	R-EVE	0.0030	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-110724	11/07/2024	320-117045-2	R-PSDA	0.0088	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-110724	11/07/2024	320-117045-2	Hydrolyzed PSDA	0.0056	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-110724	11/07/2024	320-117045-2	R-EVE	0.0034	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-111124-D	11/11/2024	320-117161-2	R-PSDA	0.0087	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-111124-D	11/11/2024	320-117161-2	Hydrolyzed PSDA	0.0062	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-111124-D	11/11/2024	320-117161-2	R-EVE	0.0032	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-111424	11/14/2024	320-117161-3	R-PSDA	0.0080	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-111424	11/14/2024	320-117161-3	Hydrolyzed PSDA	0.0052	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-111424	11/14/2024	320-117161-3	R-EVE	0.0024	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-112124	11/21/2024	320-117392-2	R-PSDA	0.012	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-112124	11/21/2024	320-117392-2	Hydrolyzed PSDA	0.0075	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-112124	11/21/2024	320-117392-2	R-EVE	0.0049	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-13-111824	11/18/2024	320-117392-1	R-PSDA	0.0086	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-13-111824	11/18/2024	320-117392-1	Hydrolyzed PSDA	0.0036	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-13-111824	11/18/2024	320-117392-1	R-EVE	0.0040	UG/L	PQL		0.0020	J	537 Modified		3535

Site: Fayetteville

Sampling Program: 2024 Tarheel Sampling

Validation Options:

LABSTATS

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-TARHEEL-24-112524	11/25/2024	320-117449-1	R-PSDA	0.0042	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-112524	11/25/2024	320-117449-1	Hydrolyzed PSDA	0.0037	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-112524	11/25/2024	320-117449-1	R-EVE	0.0022	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-120224	12/02/2024	320-117637-1	R-PSDA	0.0084	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-120224	12/02/2024	320-117637-1	Hydrolyzed PSDA	0.0089	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-120224	12/02/2024	320-117637-1	R-EVE	0.0029	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-121024	12/10/2024	320-117750-1	R-PSDA	0.0055	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-121024	12/10/2024	320-117750-1	Hydrolyzed PSDA	0.0047	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-121024	12/10/2024	320-117750-1	R-EVE	0.0028	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-121224	12/12/2024	320-117750-2	R-PSDA	0.0062	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-121224	12/12/2024	320-117750-2	Hydrolyzed PSDA	0.0031	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-121224	12/12/2024	320-117750-2	R-EVE	0.0028	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-121624-D	12/16/2024	320-117886-2	R-PSDA	0.0022	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-121624-D	12/16/2024	320-117886-2	Hydrolyzed PSDA	0.0047	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-121824	12/18/2024	320-117886-3	R-PSDA	0.0067	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-121824	12/18/2024	320-117886-3	Hydrolyzed PSDA	0.0025	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-123024	12/30/2024	320-118070-3	R-PSDA	0.0026	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-123024	12/30/2024	320-118070-3	Hydrolyzed PSDA	0.0036	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-122624	12/26/2024	320-118070-2	Hydrolyzed PSDA	0.0026	UG/L	PQL		0.0020	J	537 Modified		3535

Site: Fayetteville

Sampling Program: 2024 Tarheel Sampling

Validation Options: LABSTATS

Validation Reason Code: Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-TARHEEL-24-100724	10/07/2024	320-116166-1	R-PSDA	0.0021	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-100924	10/09/2024	320-116166-2	R-PSDA	0.0039	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-100924-D	10/09/2024	320-116166-3	R-PSDA	0.0031	UG/L	PQL		0.0020	J	537 Modified		3535



ADQM Data Review

Site: Chemours Fayetteville

Project: 2025 Tarheel Sampling (select SDG)

Project Reviewer: Bridget Gavaghan



Sample Summary

Field Sample ID	Lab Sample ID	Sample Type	Filtered	Sample Date	Sample Time	Sample Purpose
CFR-TARHEEL-24-102824	320-119082-1	Surface Water	N	10/28/2024	23:01	FS
CFR-TARHEEL-24-103124	320-119082-2	Surface Water	N	10/31/2024	23:01	FS

* FS=Field Sample
DUP=Field Duplicate
FB=Field Blank
EB=Equipment Blank
TB=Trip Blank

Analytical Protocol

Lab Name	Lab Method	Parameter Category	Sampling Program
Eurofins Environ Testing Northern Cali	537 Modified	Per- and Polyfluorinated Alkyl Substances (PFAS)	2025 Tarheel Sampling



ADQM Data Review Checklist

Item	Description	Yes	No*	DVM Narrative Report	Laboratory Report	Exception Report (ER) #
A	Did samples meet laboratory acceptability requirements upon receipt (i.e., intact, within temperature, properly preserved, and no headspace where applicable)?	X				
B	Were samples received by the laboratory in agreement with the associated chain of custody?	X				
C	Was the chain of custody properly completed by the laboratory and/or field team?	X				
D	Were samples prepped/analyzed by the laboratory within method holding times?		X	X	X	
E	Were data review criteria met for method blanks, LCSs/LCSDs, MSs/MSDs, PDSs, SDs, replicates, surrogates, sample results within calibration range, total/dissolved samples, field duplicates, field/equipment/trip blanks?	X				
F	Temperature upon laboratory receipt meets range not frozen to 6 C (manual check)?	X				
G	Were all data usable and not R qualified?	X				
ER#	Description					
Other QA/QC Items to Note:						

* See DVM Narrative Report, Laboratory Report, and/or ER # for further details as indicated.

The electronic data submitted for this project were reviewed via the Data Verification Module (DVM) process. Overall, the data are acceptable for use without qualification, except as noted on the attached DVM Narrative Report.

The lab reports due to a large page count are stored on a network shared drive and are available to be posted on external shared drives, or on a flash drive.



Data Verification Module (DVM)

The DVM is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software, Locus EIM™ database Data Verification Module (DVM), and manual reviewer evaluations. The data are evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike (MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- Difference/RPD between field duplicate sample pairs
- RPD between laboratory replicates for inorganic analyses
- Difference/percent difference between total and dissolved sample pairs
- Temperature upon laboratory receipt meets the range of not frozen to 6°C with a target of 4°C (manual check)

There are two qualifier fields in EIM:

Laboratory Qualifier is the qualifier assigned by the laboratory and may not reflect the usability of the data. This qualifier may have many different meanings and can vary between labs and over time within the same lab. Please refer to the laboratory report for a description of the laboratory qualifiers. As they are laboratory descriptors they are not to be used when evaluating the data.

Validation Qualifier is the 3rd party formal validation qualifier if this was performed. Otherwise this field contains the qualifier resulting from the ADQM DVM review process. This qualifier assesses the usability of the data and may not equal the laboratory qualifier. The DVM applies the following data evaluation qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

The **Validation Status Code** field is set to “DVM” if the ADQM DVM process has been performed. If the DVM has not been run, the field will be blank.

If the DVM has been run (**Validation Status Code** equals “DVM”), use the **Validation Qualifier**.

If the data have been validated by a third party, the field “**Validated By**” will be set to the validator (e.g., ESI for Environmental Standards, Inc.).

DVM Narrative Report

Site: Fayetteville

Sampling Program: 2025 Tarheel Sampling

Validation Options:

LABSTATS

Validation Reason Code: The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	NVHOS, Acid Form	0.0030	UG/L	PQL		0.0030	UJ	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	Hydro-PS Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	NVHOS, Acid Form	0.0030	UG/L	PQL		0.0030	UJ	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	Hydro-PS Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	Perfluoro(2-ethoxyethane)sulfonic	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	Perfluoro(2-ethoxyethane)sulfonic	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	PEPA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	R-PSDCA	0.0030	UG/L	PQL		0.0030	UJ	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	R-PSDCA	0.0030	UG/L	PQL		0.0030	UJ	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535

Validation Reason Code: The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	R-PSDA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	PPF Acid	0.018	UG/L	PQL		0.0050	J	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	R-PSDA	0.0023	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	PFO2HxA	0.0091	ug/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	PFO2HxA	0.0065	ug/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	Perfluoroheptanoic Acid	0.0025	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	PMPA	0.010	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	PPF Acid	0.020	UG/L	PQL		0.0050	J	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	PEPA	0.0021	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	Hydrolyzed PSDA	0.0029	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	Hfpo Dimer Acid	0.0054	UG/L	PQL		0.0040	J	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	Hfpo Dimer Acid	0.0057	UG/L	PQL		0.0040	J	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	PFMOAA	0.018	ug/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-102824	10/28/2024	320-119082-1	PFMOAA	0.018	ug/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	PMPA	0.0098	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	Perfluoroheptanoic Acid	0.0023	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-103124	10/31/2024	320-119082-2	Hydrolyzed PSDA	0.0025	UG/L	PQL		0.0020	J	537 Modified		3535