

# Appendix A

## Cape Fear River PFAS Mass Loading Model

### 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 the relative contributions by pathway. The following sections describe the transport pathways and 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).

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 2026) (Geosyntec, 2020a).

#### ***Mass Loading Model Transport Pathways***

The nine potential pathways representing compartments to the mass loading model were identified as potential contributors of PFAS to the river PFAS concentrations (Geosyntec, 2020a):

- **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:** Direct aerial deposition of PFAS on the Cape Fear River (see Attachment ATT2 for further details).
- **Transport Pathway 4:** 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:** Onsite Groundwater – Direct upwelling of onsite groundwater to the Cape Fear River from the Black Creek Aquifer (see Attachment ATT3 for further details).
- **Transport Pathway 6:** Seeps – Onsite groundwater seeps A, B, C and D and offsite Lock and Dam Seep above the Cape Fear River water level on the bluff face from the facility that discharge into the Cape Fear River.
- **Transport Pathway 7:** Old Outfall 002 – Groundwater discharge to Old Outfall 002 and stormwater runoff that flows into the Cape Fear River.

## Appendix A: Cape Fear River PFAS Mass Loading Model

- **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 Q2 2022 Mass loading model assessments, data sources used as model inputs for each potential pathway are described in Table A1.

## **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 report period (April 2022). A total of 34 water samples were collected, which includes surface water (seep, creeks, Old Outfall 002, Outfall 002, and Cape Fear River) and groundwater. The sample collection 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).

### ***Flow Measurements***

The flow rates measured for the seep and surface water events are reported in Table A3. 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.

### ***Water Levels and Groundwater Sample Collection***

One synoptic water level survey of the onsite groundwater monitoring well network was completed on April 7, 2022 (Table A4). Groundwater samples were collected from April 11 to 27, 2022, from 18 of the 20 monitoring wells outlined in CO Paragraph 16 (Table A5). This list of groundwater wells is derived from the Corrective Action Plan (CAP) (Geosyntec, 2019), with the following exceptions and deviations:

- INSITU-02 and BLADEN-1S were removed from the list because have been dry.
- Bladen-1D was damaged and could not be sampled.
- PW-11 was being pumped as part of the interim groundwater remediation activities and therefore could not be sampled.

The groundwater field parameters are provided in Table A6.

### ***Surface Water Sample Collection***

The seep water and river water samples were collected from April 19 to 26, 2022. During the sampling event, high river stage was not recorded (<10 feet throughout). Including the 3 samples collected at the three downstream locations along the Cape Fear River (Bladen Bluffs, Tar Heel, and Kings Bluff), a total of 16 primary samples, 1 duplicate sample, 2 equipment blanks, and 1 field blank were collected. Field parameters recorded for these samples are provided in Table A7. Recorded field parameter data are generally consistent with expectations.

## **Appendix A: Cape Fear River PFAS Mass Loading Model**

### ***Laboratory Analyses***

All samples were sent to Eurofins Scientific (West Sacramento, CA) and were analyzed for Table 3+ Laboratory SOP and 13 additional perfluoroalkyl carboxylic acid (PFCAs).

### PFAS ANALYTICAL RESULTS

The analytical results from samples during the Q2 2022 surface water and groundwater sampling events are presented in Tables A8 and A9, respectively. 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.

#### *Data Validation*

The method described in this subsection was used to validate the analytical data with samples described in this appendix and in the main report. Analytical data were reviewed using the Data Verification Module (DVM) within the Locus<sup>™</sup> Environmental Information Management (EIM) system, a commercial software program used to manage data. Following the DVM process, a secondary review of the data was conducted. The DVM and secondary review results were combined in a data review narrative report for each set of sample results, which were consistent with Stage 2b of the USEPA Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use (USEPA-540-R-08-005, 2009). The 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 quality assurance/quality control samples
- Matrix spike/matrix spike duplicate recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample/control sample duplicate recoveries and the RPD between these spike
- Surrogate spike recoveries for organic analyses
- RPD between field duplicate sample pairs

The secondary review of the data included instrument-related quality control results for calibration standards, blanks, and recoveries. It also included visual inspection of sample chromatograms for appropriate integration and verification that detections in field or equipment blanks have been applied to all applicable samples. The data review process applied the following data evaluation qualifiers to the analytical results as required:

- J: Analyte present, reported value may not be accurate or precise

## Appendix A: Cape Fear River PFAS Mass Loading Model

- 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 data review process described above was performed for laboratory chemical analytical data generated for the sampling events. The DQOs were met for the analytical results for accuracy and precision. The data collected are believed to be complete, representative and comparable, with the exception of R-PSDA, Hydrolyzed PSDA, and R-EVE.

### ***Surface Water PFAS Analytical Results***

For the surface and seep water samples, two equipment blanks and one field blank were collected and no compound was detected above the reporting limit. One field duplicate was collected at the SEEP-D\_EFF location on April 20, 2022. PFAS results for the primary (CAP2Q22-SEEP-D-EFF-24-042022) and duplicate sample (CAP2Q22-SEEP-D-EFF-24-042022-D) had relative percent differences less than 30% for the reported compounds.

Analytical results for the seep, surface, and river water samples are summarized in Tables A8 (Table 3+) and Attachment Table ATT1-12 (PFCAs). Figure A1 shows the Total Table 3+ (17 compounds) concentrations reported for samples collected in Q2 2022 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.

In general, Total Table 3+ (17 compounds) concentrations were lowest at Intake at the Facility, Outfall 002, in the near-site/downstream river samples, and the effluents to the Seep B, Seep C, Seep D flow through cells (FTCs), while the highest concentrations were observed at the Lock and Dam Seep (Table A8).

Among the river samples, Total Table 3+ (17 compounds) concentrations ranged from 4.9 ng/L (at CFR-MILE-76 in April 2022) to 46 ng/L (downstream sample at CFR-TARHEEL). Among the creeks, the Total Table 3+ (17 compounds) concentrations were lower at Georgia Branch Creek (1,400 ng/L) than at Willis Creek (3,200 ng/L) for the samples collected in Q2 2022. Among the seeps and Old Outfall 002, Seep-D effluents generally had the lowest Total Table 3+ (17 compounds) concentrations (5.6-5.9 ng/L), while Lock-Dam Seep had the highest Total Table 3+ (17 compounds) concentrations (130,000 ng/L).

Figure A3 shows the HFPO-DA concentrations in the four near-site/downstream river sampling locations. HFPO-DA concentrations were well below 140 ng/L ranging from <2 ng/L (near-site at CFR-MILE-76 in April 2022) to 11 ng/L (sample at Intake River Water at Facility on April 20, 2022).

## **Appendix A: Cape Fear River PFAS Mass Loading Model**

### ***Groundwater PFAS Analytical Results***

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

- Two equipment blank samples and one field blank sample were collected during the sampling event. No PFAS were detected above the associated reporting limits in any of the equipment blank or field blank samples.
- One field duplicate sample was collected at PW-06 (April 2022). PFAS results for the primary (CAP2Q22-PW-06-041122) and duplicate sample (CAP2Q22-PW-06-041122-D) had relative percent differences less than 30% for the reported compounds.

Individual PFAS and Total PFAS concentrations for the groundwater samples collected in Q2 2022 are summarized in Tables A9 (Table 3+) and Attachment Table ATT1-13 (PFCAs), and Figure A5. Total Table 3+ (17 compounds) concentrations ranged from non-detect below the associated reporting limits (PW-09 in April 2022) to 220,000 ng/L (PIW-7D and PZ-22). 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).

In general, the largest proportion of Total Table 3+ (17 compounds) concentrations are comprised of HFPO-DA, PFMOAA, PFO2HxA and PMPA (Table A5). On an aquifer basis, lower individual and Total Table 3+ (17 compounds) concentrations are observed in wells screened in the Surficial Aquifer. Concentrations of Total Table 3+ (17 compounds) in Floodplain Deposits and Black Creek Aquifer groundwater (Figure A4) were similar to the Lock-Dam Seep concentrations (Figure A1). Overall, results from the Q2 2022 monitoring are consistent with trends observed at these wells in previous monitoring events (Geosyntec: 2020b; 2020c; 2020d; 2021a; 2021b; 2021c; 2021d; 2022a; 2022b).

### ***Potentiometric Surfaces***

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 April 2022 (Table A4). Groundwater elevations from these synoptic water levels were used to develop potentiometric maps for the Perched Zone, Surficial Aquifer and Black Creek Aquifer (Figures A5-1, A5-2, and A5-3, respectively).

Similar to Perched Zone groundwater elevations discussed in previous assessments (Geosyntec: 2019b; 2020b; 2020c; 2020d; 2021b; 2021c; 2021d; 2021e; 2022b), groundwater elevations were highest in the central portion of the Perched Zone near the Power and Monomers IXM areas of the Site (Figure A5-1). Perched Zone groundwater elevations appear to be controlled by topography and the lateral extent of the clay lens.

Groundwater elevations in Surficial Aquifer wells (Figure A5-2) indicate groundwater flow in the northern portion of the Site is likely to be east-northeast towards both Willis Creek and Cape Fear River, and at the southern end of the Site towards Old Outfall 002, consistent with the flow



## **Appendix A: Cape Fear River PFAS Mass Loading Model**

observed in previous assessments (Geosyntec: 2019b; 2020b; 2020c; 2020d; 2021b; 2021c; 2021d; 2021e; 2022b). In the southern portion of the Site, the Surficial Aquifer groundwater discharges to the Old Outfall 002 and to Seep B.

Groundwater in the Black Creek Aquifer flows in a predominantly easterly direction to the Cape Fear River (Figure A5-3) similar to groundwater elevations discussed in previous assessments (Geosyntec: 2019b; 2020b; 2020c; 2020d; 2021b; 2021c; 2021d; 2021e; 2022b). A portion of Black Creek Aquifer groundwater flow is interpreted to also flow to the northeast, towards Willis Creek (near SMW-12) and southeast, towards Old Outfall (east of PW-11 or Glengerry Road).

The Black Creek Aquifer potentiometric surface were used to estimate hydraulic gradients in the Black Creek Aquifer. The hydraulic gradients were used as an input into the Mass loading model to estimate the contribution of onsite groundwater in the Black Creek Aquifer to the PFAS mass loading to the Cape Fear River. The details of the calculations can be found in Attachment ATT3.

## Appendix A: Cape Fear River PFAS Mass Loading Model

### MASS LOADING MODEL ASSESSMENT

The Total PFAS mass discharges upgradient of the remedies (i.e., before the water passes through the remedies, or “Before Remedies”) and downgradient of the remedies (i.e., after the water passes through the remedies, or “After Remedies”) are summarized in Tables A10-1 and A10-2, respectively. Analyte-specific mass discharges estimated from the Mass Loading Model are provided in Attachment ATT1. A comparison of relative contributions per pathway for the Q2 2022 MLM assessments is provided in Table A11.

#### ***Reductions in Modeled Mass Discharge***

The model estimated “Before Remedies” and “After Remedies” Total Table 3+ (17 compounds) mass discharge values from the Q2 2022 event are provided in Tables A10-1 and A10-2, respectively. The reduction in Total Table 3+ (17 compounds) mass discharges after remedies, calculated as the difference between the Total Table 3+ mass discharges after remedies and the Total Table 3+ (17 compounds) mass discharges before remedies, is summarized in the table below. Additionally, the operation of the Old Outfall 002 treatment system and Seep A, B, C, and D FTCs, were effective at reducing the Total Table 3+ mass discharge by 4.95 mg/s. More specifically, the reduction of mass discharge was 0.87 mg/s at Old Outfall 002; 1.84 mg/s at Seep A; 1.34 mg/s at Seep B, 0.30 mg/s at Seep C; and 0.60 mg/s at Seep D.

Pathway	After Remedies Reduction in Model-Estimated Total Table 3+ (17 Compounds) Mass Discharge (mg/s) <sup>1</sup>
	April 2022
Mass Discharge Reduction from Remedies	4.95
<i>Old Outfall 002</i>	0.87
<i>Seep A</i>	1.84
<i>Seep B</i>	1.34
<i>Seep C</i>	0.30
<i>Seep D</i>	0.60
<i>Outfall 002<sup>2</sup></i>	--

- 1 - The after remedies reduction in Total Table 3+ (17 compounds) mass discharges is the amount prevented from reaching the Cape Fear River due to the implemented remedies, calculated as the difference between the Total Table 3+ mass discharges after remedies and the Total Table 3+ mass discharges before remedies.
- 2 - The SWTS treats stormwater flows captured in the conveyance network surrounding the Monomers/IXM area that would otherwise flow to Outfall 002. There was no stormwater flow being treated by the SWTS during the April 2022 sampling event (April 19-20, 2022). Over the duration of Q2 when stormwater was flowing to the SWTS, it removed 99% or greater of HFPO-DA, PFMOAA, and PMPA from the influent flow.

Overall, the mass discharge reductions have increased in Q3 2021 through Q2 2022 compared to Q2 2021, since all four Seep FTCs and the SWTS became operational prior to Q3 2021. As

## **Appendix A: Cape Fear River PFAS Mass Loading Model**

discussed in Section 3.1, the four seep FTCs have been capturing and reducing the overall PFAS mass entering the Cape Fear River during Q2 2022.

### ***Relative Contributions by Pathway***

A summary of the relative contributions by pathway for Total Table 3+ (17 compounds) is provided in Table A11. The relative contributions using the other PFAS groupings, Total Attachment C compounds and Total Table 3+ (20 compounds), are provided in Attachment Table ATT1-11.

In April 2022, the most significant pathways upgradient of the remedies (“before” remedies) are the seeps (approximately 43% to 45%) and onsite groundwater (31% to 35%). This is consistent with previous mass loading model assessments (Geosyntec: 2019b; 2020b; 2020c; 2020d; 2021b; 2021c; 2021d; 2021e; 2022b).

In previous assessments Old Outfall 002 and the Seeps were significant contributors to the total mass discharge. The implementation of the remedies at these locations have reduced the potential loading to the Cape Fear River as follows:

- In Q2 2022, the Old Outfall 002 upgradient of the remedies contributed between 9.4% and 9.9% of the Total Table 3+ (17 compounds) mass load that potentially could reach the Cape Fear River. Implementation of the Old Outfall 002 treatment system has reduced this potential loading to less than 1% of the Total Table 3+ (17 compounds) mass load reaching the Cape Fear River.
- In Q2 2022, the seeps upgradient of the remedies contributed approximately 43% to 45% of the Total Table 3+ (17 compounds) mass load that potentially could reach the Cape Fear River. Remedy implementation at Seeps A, B, C, and D has reduced this potential loading to approximately 1% of the Total Table 3+ (17 compounds) mass load reaching the Cape Fear River.

### ***Variability in Input Parameters***

The Mass Loading Model assessments provide PFAS mass discharge estimates and relative proportions of loadings 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). To better understand the sensitivity of the model to the various pathway-specific input parameters, the uncertainties associated with the input parameters were used to conduct a sensitivity analysis in the Q1 2020 report (Geosyntec, 2020b), and the model sensitivity is being evaluated as site conditions change.

The ongoing sensitivity analysis has indicated that there are input parameters that are currently overestimating the mass loading to the river, including Segment 8 of the onsite groundwater term (transport pathway 5, see Attachment ATT3). Additional wells have been installed and will be

## **Appendix A: Cape Fear River PFAS Mass Loading Model**

monitored as part of the Performance Monitoring Plan (PMP) that will improve the resolution on Segment 8 and reduce the uncertainty in the groundwater term. These changes will be incorporated in future mass loading assessments.

### SENSITIVITY ASESMENT

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).

#### ***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 Q2 2022 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  $3.2 \times 10^{-4}$  centimeters per second (cm/s).
- No mass discharge was calculated from Segment #8 because there are no wells in that segment that are screened above the Black Creek Aquifer.

The mass discharge from the Floodplain Deposits was estimated to be 0.059 mg/s. This is only approximately 1.8% of the mass discharge from the Black Creek Aquifer (3.36 mg/s) and only 0.44% 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.

Mass discharge from the Floodplain Deposits will continue to be evaluated on an annually basis.

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

## Appendix A: Cape Fear River PFAS Mass Loading Model

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 July and August 2021. These two sampled periods were selected because they were the only two occurrences during the mass loading assessment program (from March 2020 to April 2022) when HFPO-DA was detected at the upstream river water (Cape Fear River Mile 76), which is indicative of groundwater upwelling from the offsite residential wells. The results are as follows:

- In July 2022, the estimated scaling factor using the land area method is 0.21, which is less than the scaling factor using the river length method of 0.38. The change in the relative contribution from transport pathway 8 decreases from 1.5% to 0.9%.
- In August 2022, the estimated scaling factor using the land area method is 0.16, which is less than the scaling factor using the river length method of 0.38. The change in the relative contribution from transport pathway 8 decreases from 1.5% to 0.7%.

In both sampling periods, the scaling factors using both approaches (river length versus land area) are roughly similar and have minimal change on the relative contribution from this transport pathway.

There are also 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.

The river length method will continue to be used to evaluate model transport pathway from adjacent and downstream offsite groundwater; however, the scaling factor and relative contributions using the land area method will continue to be evaluated on an annually basis.

### **SUMMARY**

The objective of the mass loading model assessments is to provide PFAS mass discharge estimates and relative proportions of loadings for a ‘snapshot’ in time. In April 2022, 34 water samples were collected from the PFAS transport pathways (seeps, creeks, Old Outfall, Outfall 002, groundwater) and were used to estimate the mass discharge and the relative contribution per transport pathway to the Cape Fear River.

The pathways with the largest PFAS mass discharges continue to be the seeps (transport pathway 6) and onsite groundwater (transport pathway 5). Previous assessments indicated that the seeps and Old Outfall 002 (transport pathways 6 and 7) were also contributors, but the implementation of the Old Outfall 002 treatment system and the seep FTC remedies have reduced the potential loading to approximately 1% of the Total Table 3+ (17 compounds) mass load reaching the Cape Fear River. Accounting for implemented remedies, the remaining largest contributing pathway is onsite groundwater.

Over this period, the implementation of remedies at the Old Outfall 002 and Seeps A, B, C, and D resulted in reductions of model-estimated mass discharges of about 4.95 mg/s. These reductions represent the estimated reductions for this single mass loading event and are similar to model-estimated reductions reported in Q1 2022 of 5.8 mg/s (Geosyntec, 2022b). The remedy reduction mass loads are expected to increase following implementation of additional remedies onsite.

Quarterly sample collection and evaluation will continue through Q4 2026. The data will continue to be incorporated into the mass loading model to estimate mass discharge to the Cape Fear River, and sensitivity assessments on the model will continue to be evaluated annually.

### **References**

- Geosyntec. 2019. 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.
- Geosyntec. 2020b. Cape Fear River Table 3+ PFAS Mass Loading Assessment – First Quarter 2020 Report, Chemours Fayetteville Works. July 31, 2020.
- Geosyntec. 2020c. Cape Fear River PFAS Mass Loading Assessment – Second Quarter 2020 Report, Chemours Fayetteville Works. September 30, 2020.
- Geosyntec. 2020d. Cape Fear River PFAS Mass Loading Assessment – Third Quarter 2020 Report, Chemours Fayetteville Works. December 23, 2020.
- Geosyntec, 2021a. Cape Fear River PFAS Mass Loading Assessment – Fourth Quarter 2020 Report, Chemours Fayetteville Works. March 31, 2021.

## Appendix A: Cape Fear River PFAS Mass Loading Model

Geosyntec, 2021b. Cape Fear River PFAS Mass Loading Assessment – First Quarter 2021 Report, Chemours Fayetteville Works. June 30, 2021, 2021.

Geosyntec 2021c. Cape Fear River PFAS Mass Loading Assessment – Second Quarter 2021 Report, Chemours Fayetteville Works. September 30, 2021.

Geosyntec 2021d. Cape Fear River PFAS Mass Loading Assessment – Third Quarter 2021 Report, Chemours Fayetteville Works. December 23, 2021.

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.

\*\*\*\*\*

### **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 <sup>1</sup>	Flow Data Source for Mass Loading Model <sup>1</sup>
1	Upstream River and Groundwater	Measured from Cape Fear River Mile 76 samples collected in April 2022 as reported in Table A8.	Measured flow rates from USGS gauging station at W.O. Huske Dam during April 2022 volumetrically adjusted for flow pathways between River Mile 76 and W.O. Huske Dam. <sup>2</sup>
2	Willis Creek	Measured from Willis Creek samples collected in April 2022 as reported in Table A8.	Measured flow rates through Marsh-McBirney method during April 2022 as reported in Attachment ATT1.
3	Aerial Deposition on River	Estimated from air deposition modeling <sup>3</sup> .	Estimated from air deposition modeling <sup>3</sup> .
4	Outfall 002	Measured from Outfall 002 samples collected in April 2022 as reported in Table A8.	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 April 2022 as reported in Table A9.	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, and D samples, and Lock and Dam Seep samples collected in April 2022 as reported in Table A8.	Measured flow rates through bucket and time for Lock and Dam Seep during April 2022 as reported in Appendix C. Historical flume data in Q2 2020 for Seep A were used while the Seep A flume was not operational. Historical flume data in Q2 2020 for Seep B were used as flows from the Seep B flume were beyond the limits of the flume. Historical flume data in Q2 2020 for Seep C were used because the flume was flooded from high river levels during the sampling event. Flow-Through Cell data for Seep D was used as flows from the Seep D flume were beyond the limits of the flume.
7	Old Outfall 002	Measured from Old Outfall 002 samples collected in April 2022 as reported in Table A8.	Measured flow rates through Marsh-McBirney method during April 2022 as reported in Attachment ATT1.
8	Adjacent and Downstream Groundwater	Estimated using a scaling factor applied to upstream mass discharge. Refer to Cape Fear River PFAS Mass Loading Calculation Protocol Version 2 (Geosyntec, 2020a) for details.	Estimated using a scaling factor applied to upstream mass discharge. Refer to Cape Fear River PFAS Mass Loading Calculation Protocol Version 2 (Geosyntec, 2020a) for details.
9	Georgia Branch Creek	Measured from Georgia Branch Creek samples collected in April 2022 as reported in Table A8.	Measured flow rates through Marsh-McBirney method during April 2022 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 COLLECTION AND FLOW MEASUREMENT SUMMARY**  
**Chemours Fayetteville Works, North Carolina**

Pathway / Location	Location ID	Location Description	April 2022	
			Sample Collection Method <sup>1</sup>	Flow Measurement Method <sup>2</sup>
Upstream River Water and Groundwater <sup>3</sup>	CFR-RM-76	Cape Fear River Mile 76	Grab	USGS Data
Willis Creek	WC-1	Mouth of Willis Creek	24-hour composite	Marsh-McBirney Flow
Intake River Water at Facility	INTAKE AT FACILITY	Water Drawn Through the Intake Sampled at the Power Area at the Site	24-hour composite	Facility DMRs
Outfall 002	OUTFALL-002	Outfall 002 in open channel	24-hour composite	Facility DMRs
Stormwater Treatment System	STS Discharge	Monomers/IXM Stormwater Treatment System Effluent	-- <sup>4</sup>	-- <sup>4</sup>
Seep A	SEEP-A	Effluent Basin of Seep A FTC	24-hour composite	-- <sup>5</sup>
Seep B	SEEP-B	Effluent Basin of Seep B FTC	24-hour composite	-- <sup>6</sup>
Seep C	SEEP-C	Effluent Basin of Seep C FTC	24-hour composite	-- <sup>7</sup>
Seep D	SEEP-D	Effluent Basin of Seep D FTC	24-hour composite	FTC <sup>8</sup>
Lock and Dam Seep	LOCK-DAM-SEEP	Southside of the boat ramp at the Lock and Dam Seep	Grab	Bucket and timer
Lock and Dam North	LOCK-DAM-NORTH	Northside of the boat ramp at the Lock and Dam Seep	-- <sup>9</sup>	-- <sup>9</sup>
Old Outfall 002	OLDOF-1	Mouth of Old Outfall 002	24-hour composite	Marsh-McBirney Flow
Georgia Branch Creek	GBC-1	Mouth of Georgia Branch Creek	Grab	Marsh-McBirney Flow
Tar Heel Ferry Road Bridge <sup>3</sup>	CFR-TARHEEL	Cape Fear River at Tar Heel Ferry Road Bridge	Grab	USGS Data
Bladen Bluffs <sup>3</sup>	CFR-BLADEN	Cape Fear River at Bladen Bluffs	Grab	USGS Data
Kings Bluffs <sup>10</sup>	CFR-KINGS	Cape Fear River at Kings Bluff Raw Water	Grab	USGS Data

**Notes:**

- 1 - Samples analyzed for PFAS by EPA Method 537 Mod and Table 3+ Lab SOP.
  - 2 - Estimated flow results are included in Table A3. Supplemented flow measurement data are included in Attachment ATT1.
  - 3 - USGS data measurements were recorded from the USGS flow gauging station at the W.O. Huske Dam, ID 02105500 (USGS, 2022).
  - 4 - No sample was collected and flow was not measured at the Stormwater Treatment System because there was no flow at that location during the sampling event.
  - 5 - Instantaneous flows were estimated using median wet weather flows measured at the Seep A flume during Q2 2020 because there was flume damage and channel blockage at Seep A from a 4-inch rainfall.
  - 6 - Seep B flume data measured in Q2 2020 were used instead as flows from the Seep B flume were beyond the limits of the flume.
  - 7 - Seep C flume data measured in Q2 2020 were used instead because the flume was flooded from high river levels during the sampling event.
  - 8 - The flows from Seep D FTC were used instead as flows from the Seep D flume were beyond the limits of the flume and the sampling interval from the Seep D flume data measured in Q2 2020 were insufficient to estimate flow.
  - 9 - A sample was not collected and flow was not measured at Lock and Dam Seep North since the location was flooded during the sampling event.
  - 10 - Flow rate measured at USGS gauging station #02105769 located at Lock #1 near Kelly used to estimate flow rate at Kings Bluff.
- - not measured  
DMRs - Discharge Monitoring Reports  
FTC - flow through cell  
EPA - Environmental Protection Agency  
PFAS - per- and polyfluoroalkyl substances  
USGS - United States Geological Survey

**TABLE A3**  
**FLOW SUMMARY FOR SEEPS, SURFACE AND RIVER WATER LOCATIONS**  
**Chemours Fayetteville Works, North Carolina**

Pathway / Location	April 2022		
	Flow Measurement Date	Instantaneous Flow Rate (ft <sup>3</sup> /s) <sup>1</sup>	Flow Rate (gpm)
Upstream River Water and Groundwater <sup>2</sup>	04/19/22	2,620	1,175,941
Willis Creek	04/26/22	4	1,712
Outfall 002	04/20/22	22	9,989
Seep A <sup>4</sup>	04/20/22	0.38	172
Seep B <sup>5</sup>	04/20/22	0.23	101
Seep C <sup>6</sup>	04/20/22	0.12	56
Seep D <sup>7</sup>	04/20/22	0.22	98
Lock and Dam Seep	04/19/22	0.012	5.3
Old Outfall 002	04/26/22	0.9	387
Georgia Branch Creek	04/19/22	3.6	1,638
TARHEEL <sup>8</sup>	04/20/22	8,601	4,423,407
TARHEEL <sup>9</sup>	04/19/22	2,540	1,140,035
CFR-BLADEN <sup>10</sup>	04/19/22	2,660	1,193,895
CFR-KINGS <sup>11</sup>	04/21/22	11,900	5,341,108

**Notes**

1 - Flow measurement methods are described in Table A2. Detailed flow data and calculations are provided in Attachment ATT1.

2 - 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.

3 - There was no flow to the Stormwater Treatment System during the April 2022 sampling event, therefore a sample was not collected and flow was not measured at this location for that month.

4 - In April 2022, flows could not be measured at Seep A due to flume damage and channel blockage resulting from a 4-inch rainfall. Instantaneous flows were estimated using median wet weather flows measured at Seep A during Q1 2020 (Geosyntec, 2021b).

5 - Historical flume data in Q2 2020 for Seep B were used as flows from the Seep B flume were beyond the limits of the flume.

6 - Historical flume data in Q2 2020 for Seep C were used because the flume was flooded from high river levels during the sampling event.

7 - Flow-Through Cell data for Seep D was used as flows from the Seep D flume were beyond the limits of the flume.

8 - 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 the 24 hr period between the collection of the composite sample on April 19 to 20, 2022.

9 - 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.

10 - 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.

11 - 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.

ft<sup>3</sup>/s - cubic feet per second

gpm - gallon per minute

**TABLE A4  
GROUNDWATER ELEVATIONS - Q2 2022  
Chemours Fayetteville Works, North Carolina**

Area <sup>1</sup>	Water Bearing Unit <sup>2</sup>	Well ID	Gauging Date	Northing (ft, SPCS NAD83) <sup>3</sup>	Easting (ft, SPCS NAD83) <sup>3</sup>	Screened Interval (ft)	TOC Elevation (ft, NAVD 88) <sup>4</sup>	Depth to Water (ft from TOC)	Water Level (ft, NAVD88) <sup>4</sup>
Onsite	Black Creek Aquifer	BCA-01	04/07/22	399779.96	2050662.48	91 to 101	146.25	NM	--
Onsite	Black Creek Aquifer	BCA-03R	04/07/22	398582.23	2049522.22	88 to 98	150.82	51.23	99.59
Onsite	Black Creek Aquifer	BCA-04	04/07/22	395877.665	2047823.03	94 to 104	150.31	30.61	119.70
Onsite	Black Creek Aquifer	EW-1	04/07/22	399934.65	2051297.51	40 to 60	91.33	32.42	58.91
Onsite	Black Creek Aquifer	EW-2	04/07/22	396164.48	2052232.61	40 to 65	77.25	32.32	44.93
Onsite	Black Creek Aquifer	EW-3	04/07/22	395059.78	2052214.66	37 to 67	76.48	16.21	60.27
Onsite	Black Creek Aquifer	EW-4	04/07/22	398581.51	2051805.58	53 to 73	80.64	30.52	50.12
Onsite	Black Creek Aquifer	EW-5	04/07/22	397200.16	2052052.65	37 to 67	78.50	33.03	45.47
Onsite	Perched Zone	FTA-01	04/07/22	397906.09	2049370.01	12.0 to 22.0	149.60	17.19	132.41
Onsite	Perched Zone	FTA-02	04/07/22	397784.99	2049203.29	11.5 to 22.0	149.30	17.99	131.31
Onsite	Perched Zone	FTA-03	04/07/22	397766.23	2049310.46	12.0 to 22.0	150.10	18.21	131.89
Onsite	Surficial Aquifer	INSITU-01	04/07/22	401657.39	2046078.99	7.0 to 17.0	89.12	6.21	82.91
Onsite	Surficial Aquifer	INSITU-02	04/07/22	401863.46	2049136.62	7.0 to 17.0	113.12	DRY	--
Onsite	Floodplain Deposits	LTW-01	04/07/22	399565.01	2052150.62	11.0 to 26.0	52.71	15.61	37.10
Onsite	Black Creek Aquifer	LTW-02	04/07/22	398847.57	2052355.48	28.0 to 38.0	51.39	8.54	42.85
Onsite	Floodplain Deposits	LTW-03	04/07/22	398114.45	2052558.35	15.0 to 30.0	51.75	12.32	39.43
Onsite	Floodplain Deposits	LTW-04	04/07/22	397279.61	2052584.95	12.0 to 27.0	50.66	7.33	43.33
Onsite	Black Creek Aquifer	LTW-05	04/07/22	396430.31	2052740.4	29.0 to 44.0	50.94	9.12	41.82
Onsite	Perched Zone	MW-11	04/07/22	396544.4	2049051.06	11.5 to 21.5	148.53	23.56	124.97
Onsite	Perched Zone	MW-12S	04/07/22	397262.9	2049269.37	17.5 to 22.5	151.08	20.64	130.44
Onsite	Surficial Aquifer	MW-13D	04/07/22	397119.015	2049821.123	57 to 67	148.65	45.77	102.88
Onsite	Surficial Aquifer	MW-14D	04/07/22	396974.485	2049074.561	62 to 72	149.73	42.22	107.51
Onsite	Surficial Aquifer	MW-15DRR	04/07/22	398580.71	2049511.75	52.5 to 62.5	150.92	49.32	101.60
Onsite	Surficial Aquifer	MW-16D	04/07/22	398493.703	2048402.838	72 to 82	148.41	37.84	110.57
Onsite	Surficial Aquifer	MW-17D	04/07/22	398401.741	2047366.496	57 to 67	146.12	31.48	114.64
Onsite	Surficial Aquifer	MW-18D	04/07/22	400947.3	2046574.35	50 to 60	108.10	20.81	87.29
Onsite	Surficial Aquifer	MW-19D	04/07/22	401151.43	2048272.93	46 to 56	139.36	52.15	87.21
Onsite	Perched Zone	MW-1S	04/07/22	397080.69	2049117.99	21.0 to 24.0	148.88	19.31	129.57
Onsite	Surficial Aquifer	MW-20D	04/07/22	400791.01	2048733.71	65 to 75	137.20	48.65	88.55
Onsite	Surficial Aquifer	MW-21D	04/07/22	399501.88	2047074.92	72 to 82	151.42	47.08	104.34
Onsite	Surficial Aquifer	MW-22D	04/07/22	398518.4	2048362.48	52 to 72	149.09	37.79	111.30
Onsite	Perched Zone	MW-23	04/07/22	396237.61	2051063.25	9.5 to 14.5	148.34	14.87	133.47
Onsite	Perched Zone	MW-24	04/07/22	397303.94	2048767.69	18.8 to 23.8	150.31	21.88	128.43
Onsite	Perched Zone	MW-25	04/07/22	396753.37	2050989.82	12 to 17	147.59	14.45	133.14
Onsite	Perched Zone	MW-26	04/07/22	396265.18	2051484.67	5 to 10	147.70	11.82	135.88
Onsite	Perched Zone	MW-26	04/07/22	396265.18	2051484.67	5 to 10	147.70	11.82	135.88
Onsite	Perched Zone	MW-27	04/07/22	396010.33	2051472	10 to 15	146.83	15.18	131.65
Onsite	Perched Zone	MW-28	04/07/22	395719.79	2051165.93	9 to 14	144.70	14.34	130.36
Onsite	Perched Zone	MW-30	04/07/22	397340.79	2050776.09	10 to 15	147.67	14.44	133.23
Onsite	Perched Zone	MW-31	04/07/22	396390.698	2049622.884	17 to 22	147.70	16.57	131.13
Onsite	Perched Zone	MW-32	04/07/22	396359.577	2049651.789	13 to 18.5	147.11	15.48	131.63
Onsite	Perched Zone	MW-33	04/07/22	396337.507	2049678.558	12 to 17	146.82	14.96	131.86

**TABLE A4  
GROUNDWATER ELEVATIONS - Q2 2022  
Chemours Fayetteville Works, North Carolina**

Area <sup>1</sup>	Water Bearing Unit <sup>2</sup>	Well ID	Gauging Date	Northing (ft, SPCS NAD83) <sup>3</sup>	Easting (ft, SPCS NAD83) <sup>3</sup>	Screened Interval (ft)	TOC Elevation (ft, NAVD 88) <sup>4</sup>	Depth to Water (ft from TOC)	Water Level (ft, NAVD88) <sup>4</sup>
Onsite	Perched Zone	MW-34	04/07/22	396352.902	2049619.086	17 to 22	147.97	16.43	131.54
Onsite	Perched Zone	MW-35	04/07/22	396332.943	2049631.155	14 to 19	147.54	15.86	131.68
Onsite	Perched Zone	MW-36	04/07/22	396320.088	2049651.174	12 to 17	147.89	16.14	131.75
Onsite	Perched Zone	MW-7S	04/07/22	397444.5245	2049809.731	NA	147.47	11.58	135.89
Onsite	Perched Zone	MW-8S	04/07/22	397096.4767	2049867.768	NA	146.48	0.82	145.66
Onsite	Perched Zone	MW-9S	04/07/22	396760.1617	2049734.296	17.5 to 22.5	154.39	21.93	132.46
Onsite	Perched Zone	NAF-01	04/07/22	398348.58	2050339.68	5.0 to 15.0	148.65	10.23	138.42
Onsite	Perched Zone	NAF-02	04/07/22	398660.16	2050634.55	5.0 to 15.0	149.28	10.72	138.56
Onsite	Perched Zone	NAF-03	04/07/22	398578.63	2050743.04	5.0 to 15.0	149.41	10.76	138.65
Onsite	Perched Zone	NAF-04	04/07/22	398445.89	2050713.13	5.0 to 15.0	146.77	8.02	138.75
Onsite	Perched Zone	NAF-06	04/07/22	398808.81	2050913.93	2.75 to 12.75	145.43	12.85	132.58
Onsite	Perched Zone	NAF-07	04/07/22	398898.69	2050618.12	5.5 to 15.5	149.03	10.03	139.00
Onsite	Perched Zone	NAF-08A	04/07/22	398098.22	2050886.93	5.0 to 15.0	147.74	9.48	138.26
Onsite	Surficial Aquifer	NAF-08B	04/07/22	398095.97	2050880.18	43.5 to 53.5	147.83	53.13	94.70
Onsite	Perched Zone	NAF-09	04/07/22	397708.78	2050807.44	7.0 to 17.0	148.62	12.80	135.82
Onsite	Perched Zone	NAF-10	04/07/22	397611.81	2050425.2	8.25 to 18.25	149.25	13.40	135.85
Onsite	Perched Zone	NAF-11A	04/07/22	398907.08	2050999.77	2.5 to 7.5	139.74	6.76	132.98
Onsite	Surficial Aquifer	NAF-11B	04/07/22	398911.13	2050995.88	33.5 to 43.5	140.74	46.66	94.08
Onsite	Perched Zone	NAF-12	04/07/22	398270.555	2050777.49	18 to 23	145.79	7.39	138.40
Onsite	Black Creek Aquifer	OW-1	04/07/22	399930.53	2051287.87	40 to 50	95.01	35.87	59.14
Onsite	Black Creek Aquifer	OW-10	04/07/22	399948.17	2051291.21	40 to 50	94.39	35.27	59.12
Onsite	Black Creek Aquifer	OW-2	04/07/22	398572.28	2051801.62	63 to 73	84.37	34.55	49.82
Onsite	Black Creek Aquifer	OW-3	04/07/22	398601.08	2051812.32	63 to 73	84.64	34.99	49.65
Onsite	Black Creek Aquifer	OW-4	04/07/22	395049.16	2052210.81	47 to 57	80.85	20.63	60.22
Onsite	Black Creek Aquifer	OW-5	04/07/22	395070.03	2052196.97	54 to 64	81.61	21.19	60.42
Onsite	Black Creek Aquifer	OW-6	04/07/22	396168.41	2052223.54	50 to 60	80.53	37.67	42.86
Onsite	Black Creek Aquifer	OW-7	04/07/22	397180.06	2052052.69	57 to 67	81.45	36.00	45.45
Onsite	Black Creek Aquifer	OW-8	04/07/22	397202.33	2052041.98	57 to 67	82.30	37.60	44.70
Onsite	Black Creek Aquifer	OW-9	04/07/22	395075.14	2052211.07	54 to 64	79.78	19.42	60.36
Onsite	Black Creek Aquifer	PIW-10DR	04/07/22	395093.99	2052297.3	53 to 58	75.91	NM	--
Onsite	Surficial Aquifer	PIW-10S	04/07/22	395104.95	2052296.98	7 to 17	76.32	18.88	57.44
Onsite	Black Creek Aquifer	PIW-11	04/07/22	401911.03	2050416.29	47 to 57	67.02	23.04	43.98
Onsite	Black Creek Aquifer	PIW-12	04/07/22	401703.1	2051025.77	64 to 74	83.78	48.91	34.87
Onsite	Black Creek Aquifer	PIW-13	04/07/22	401464.29	2051122.6	54 to 64	83.18	48.06	35.12
Onsite	Black Creek Aquifer	PIW-14	04/07/22	401163.98	2051186.57	56 to 66	87.43	51.61	35.82
Onsite	Black Creek Aquifer	PIW-15	04/07/22	400706.51	2051532.8	34 to 44	67.85	33.50	34.35
Onsite	Black Creek Aquifer	PIW-16D	04/07/22	396257.96	2046587.07	90 to 100	150.06	22.72	127.34
Onsite	Black Creek Aquifer	PIW-16S	04/07/22	396267.84	2046586.09	35 to 45	149.74	19.49	130.25
Onsite	Surficial Aquifer	PIW-1D	04/07/22	400548	2051801.28	24.5 to 29.5	52.16	17.44	34.72
Onsite	Floodplain Deposits	PIW-1S	04/07/22	400541.03	2051792.39	7.8 to 17.8	54.04	20.12	33.92
Onsite	Black Creek Aquifer	PIW-2D	04/07/22	399925.4	2051315.8	40 to 50	96.19	36.08	60.11
Onsite	Black Creek Aquifer	PIW-3D	04/07/22	399711.25	2052086.94	19 to 24	53.42	16.50	36.92

**TABLE A4  
GROUNDWATER ELEVATIONS - Q2 2022  
Chemours Fayetteville Works, North Carolina**

Area <sup>1</sup>	Water Bearing Unit <sup>2</sup>	Well ID	Gauging Date	Northing (ft, SPCS NAD83) <sup>3</sup>	Easting (ft, SPCS NAD83) <sup>3</sup>	Screened Interval (ft)	TOC Elevation (ft, NAVD 88) <sup>4</sup>	Depth to Water (ft from TOC)	Water Level (ft, NAVD88) <sup>4</sup>
Onsite	Black Creek Aquifer	PIW-4D	04/07/22	398816.52	2052101.94	32.3 to 37.3	52.85	9.62	43.23
Onsite	Surficial Aquifer	PIW-5S	04/07/22	398519.7	2051950.49	9.8 to 19.8	75.02	14.78	60.24
Onsite	Floodplain Deposits	PIW-6S	04/07/22	398117.93	2052539.79	18 to 28	53.40	13.71	39.69
Onsite	Black Creek Aquifer	PIW-7D	04/07/22	396787.77	2052595.65	29 to 34	48.93	5.13	43.80
Onsite	Floodplain Deposits	PIW-7S	04/07/22	396786.97	2052589.1	7 to 17	47.97	4.96	43.01
Onsite	Black Creek Aquifer	PIW-8D	04/07/22	396403.37	2052682.1	35.5 to 40	48.66	6.84	41.82
Onsite	Black Creek Aquifer	PIW-9D	04/07/22	396155.84	2052250.84	40 to 45	79.64	NM	--
Onsite	Surficial Aquifer	PIW-9S	04/07/22	396148.52	2052251.03	24.8 to 29.8	79.64	30.68	48.96
Onsite	Perched Zone	PW-01	04/07/22	399064.799	2049654.303	11 to 21	149.55	15.89	133.66
Onsite	Surficial Aquifer	PW-02	04/07/22	399779.064	2050649.466	50 to 60	146.43	57.78	88.65
Onsite	Surficial Aquifer	PW-03	04/07/22	397339.809	2050765.319	35 to 45	147.97	32.27	115.70
Onsite	Surficial Aquifer	PW-04	04/07/22	394659.549	2050940.657	17 to 27	97.75	29.17	68.58
Onsite	Surficial Aquifer	PW-05	04/07/22	395873.1	2047812.929	65 to 75	150.34	31.30	119.04
Onsite	Surficial Aquifer	PW-06	04/07/22	392868	2045288.765	19 to 29	147.69	19.95	127.74
Onsite	Surficial Aquifer	PW-07	04/07/22	390847.706	2049258.256	28 to 38	148.16	41.23	106.93
Onsite	Black Creek Aquifer	PW-09	04/07/22	402000.079	2048979.111	44 to 54	72.93	25.06	47.87
Onsite	Black Creek Aquifer	PW-10R	04/07/22	398516.115	2051936.585	57 to 67	75.90	27.02	48.88
Onsite	Black Creek Aquifer	PW-11	04/07/22	394354.363	2052226.721	53 to 63	73.26	32.96	40.30
Onsite	Black Creek Aquifer	PW-12	04/07/22	399500.447	2047063.51	109 to 119	150.61	58.78	91.83
Onsite	Black Creek Aquifer	PW-13	04/07/22	397584.263	2048029.184	120 to 130	149.36	34.27	115.09
Onsite	Black Creek Aquifer	PW-14	04/07/22	397325.648	2050766.359	136 to 146	147.97	NM	--
Onsite	Black Creek Aquifer	PW-15R	04/07/22	398900.875	2051011.753	110 to 120	136.14	NM	--
Onsite	Perched Zone	PZ-11	04/07/22	398646.2549	2049820.937	15 to 20	151.03	11.62	139.41
Onsite	Perched Zone	PZ-12	04/07/22	399091.19	2048978.89	15.1 to 20.1	149.89	19.79	130.10
Onsite	Perched Zone	PZ-13	04/07/22	397707.82	2050985.25	7.1 to 12.1	148.14	12.09	136.05
Onsite	Perched Zone	PZ-14	04/07/22	397589.9185	2050618.271	9.0 to 14.0	148.38	12.06	136.32
Onsite	Perched Zone	PZ-15	04/07/22	396806.39	2050107.5	10.2 to 15.2	147.76	14.10	133.66
Onsite	Perched Zone	PZ-17	04/07/22	396614.815	2048872.689	21.1 to 26.1	150.08	28.33	121.75
Onsite	Perched Zone	PZ-19R	04/07/22	397998.663	2049919.516	16 to 21	150.05	14.53	135.52
Onsite	Perched Zone	PZ-20R	04/07/22	398185.809	2049784.598	15 to 20	151.29	15.76	135.53
Onsite	Perched Zone	PZ-21R	04/07/22	398445.157	2049883.125	17 to 22	150.67	14.25	136.42
Onsite	Black Creek Aquifer	PZ-22	04/07/22	397271.94	2052585.34	42.5 to 47.5	50.70	6.88	43.82
Onsite	Perched Zone	PZ-24	04/07/22	396117.94	2050744.07	11 to 16	147.53	14.77	132.76
Onsite	Perched Zone	PZ-25R	04/07/22	395971.54	2050748.23	6 to 16	147.51	19.01	128.50
Onsite	Perched Zone	PZ-26	04/07/22	396059.78	2050382.35	11 to 16	147.70	13.47	134.23
Onsite	Perched Zone	PZ-27	04/07/22	395922.11	2050376.76	12 to 17	147.17	14.34	132.83
Onsite	Perched Zone	PZ-28	04/07/22	396304.55	2049933.79	13 to 18	148.64	13.90	134.74
Onsite	Perched Zone	PZ-29	04/07/22	396377.59	2049771.59	12 to 18	147.74	15.29	132.45
Onsite	Perched Zone	PZ-31	04/07/22	396428.73	2049594.355	14 to 19	148.00	18.82	129.18
Onsite	Perched Zone	PZ-32	04/07/22	396418.471	2049713.787	13 to 18	148.47	16.32	132.15
Onsite	Perched Zone	PZ-33	04/07/22	396308.915	2049707.661	12.5 to 17.5	146.72	14.66	132.06
Onsite	Perched Zone	PZ-34	04/07/22	396292.05	2049595.039	13.5 to 18.5	147.70	16.21	131.49

**TABLE A4  
GROUNDWATER ELEVATIONS - Q2 2022  
Chemours Fayetteville Works, North Carolina**

Area <sup>1</sup>	Water Bearing Unit <sup>2</sup>	Well ID	Gauging Date	Northing (ft, SPCS NAD83) <sup>3</sup>	Easting (ft, SPCS NAD83) <sup>3</sup>	Screened Interval (ft)	TOC Elevation (ft, NAVD 88) <sup>4</sup>	Depth to Water (ft from TOC)	Water Level (ft, NAVD88) <sup>4</sup>
Onsite	Perched Zone	PZ-35	04/07/22	398232.643	2050020.494	13 to 18	150.43	14.12	136.31
Onsite	Perched Zone	PZ-36	04/07/22	396086.17	2051331.44	5 to 8.5	135.20	2.46	132.74
Onsite	Perched Zone	PZ-37	04/07/22	396042.4	2051050.05	5 to 8	135.56	2.84	132.72
Onsite	Perched Zone	PZ-38	04/07/22	395970.01	2050569.66	5 to 9	137.34	8.76	128.58
Onsite	Perched Zone	PZ-39	04/07/22	395921.87	2050238.18	5 to 10	137.93	3.81	134.12
Onsite	Perched Zone	PZ-40	04/07/22	395943.02	2050031.9	5 to 9	138.51	4.18	134.33
Onsite	Perched Zone	PZ-41	04/07/22	395979.29	2050048.97	5 to 8.5	138.13	3.53	134.60
Onsite	Perched Zone	PZ-42	04/07/22	395961.73	2050230.23	3 to 7	138.17	3.86	134.31
Onsite	Perched Zone	PZ-43	04/07/22	396011.61	2050567.89	5 to 9	137.06	7.09	129.97
Onsite	Perched Zone	PZ-44	04/07/22	396082.75	2051045.25	5 to 7	136.26	3.42	132.84
Onsite	Perched Zone	PZ-45	04/07/22	396124.41	2051323.03	2 to 4	135.69	3.02	132.67
Onsite	Surficial Aquifer	PZ-L	04/07/22	396745.804	2048684.008	13 to 28	147.86	30.02	117.84
Onsite	Surficial Aquifer	SMW-01	04/07/22	395297.97	2043688.29	5.0 to 15.0	150.58	13.17	137.41
Onsite	Perched Zone	SMW-02	04/07/22	399982.23	2050655.91	5.0 to 20.0	144.59	16.78	127.81
Onsite	Surficial Aquifer	SMW-02B	04/07/22	399983.75	2050654.77	43.0 to 53.0	147.93	56.00	91.93
Onsite	Perched Zone	SMW-03	04/07/22	399779.32	2049445.32	10.0 to 20.0	151.09	DRY	--
Onsite	Black Creek Aquifer	SMW-03B	04/07/22	399785.752	2049421.539	72 to 82	150.43	58.77	91.66
Onsite	Perched Zone	SMW-04A	04/07/22	399668.71	2048387.57	19.5 to 34.5	148.09	37.16	110.93
Onsite	Surficial Aquifer	SMW-04B	04/07/22	399666.21	2048392.37	43.0 to 53.0	147.65	47.37	100.28
Onsite	Perched Zone	SMW-05	04/07/22	399334.0651	2048557.335	10.0 to 20.0	148.10	22.91	125.19
Onsite	Surficial Aquifer	SMW-05P	04/07/22	399391.46	2049235.07	45.0 to 60.0	149.66	46.18	103.48
Onsite	Perched Zone	SMW-06	04/07/22	399172.346	2048759.478	12.0 to 22.0	150.97	DRY	--
Onsite	Surficial Aquifer	SMW-06B	04/07/22	399144.744	2048764.939	58 to 68	150.32	49.22	101.10
Onsite	Perched Zone	SMW-07	04/07/22	398931.13	2048611.74	13.0 to 23.0	146.79	19.80	126.99
Onsite	Perched Zone	SMW-08	04/07/22	399064.972	2048468.783	21.0 to 31.0	151.02	34.22	116.80
Onsite	Surficial Aquifer	SMW-08B	04/07/22	399058.325	2048478.84	58 to 68	148.81	42.77	106.04
Onsite	Surficial Aquifer	SMW-09	04/07/22	401076.889	2050017.409	52 to 62	141.43	57.74	83.69
Onsite	Surficial Aquifer	SMW-10	04/07/22	402307.305	2047923.84	39 to 49	76.26	29.41	46.85
Onsite	Surficial Aquifer	SMW-11	04/07/22	401996.154	2048975.382	13 to 23	71.95	13.99	57.96
Onsite	Black Creek Aquifer	SMW-12	04/07/22	401314.202	2051007.222	88 to 98	118.22	83.51	34.71
Offsite	Black Creek Aquifer	BLADEN-1D	04/07/22	387522.245	2050247.399	37 to 47	76.96	19.80	57.16
Offsite	Surficial Aquifer	BLADEN-1S	04/07/22	387518.967	2050233.347	5 to 10	76.74	10.16	66.58
Offsite	Black Creek Aquifer	BLADEN-2D	04/07/22	368827.094	2042878.344	70 to 75	138.27	18.72	119.55
Offsite	Surficial Aquifer	BLADEN-2S	04/07/22	368821.463	2042882.917	10 to 20	138.04	7.18	130.86
Offsite	Black Creek Aquifer	BLADEN-3D	04/07/22	396856.978	2059006.562	33.75 to 43.75	75.52	10.13	65.39
Offsite	Surficial Aquifer	BLADEN-3S	04/07/22	396862.307	2059012.932	5 to 15	74.27	9.02	65.25
Offsite	Black Creek Aquifer	BLADEN-4D	04/07/22	363255.115	2087636.869	46.75 to 51.75	59.66	1.34	58.32
Offsite	Surficial Aquifer	BLADEN-4S	04/07/22	363263.191	2087637.461	4.75 to 14.75	59.68	5.65	54.03
Offsite	Black Creek Aquifer	CUMBERLAND-1D	04/07/22	431459.947	2011071.39	40 to 50	174.60	6.62	167.98
Offsite	Surficial Aquifer	CUMBERLAND-1S	04/07/22	431459.947	2011071.39	15 to 25	174.73	6.32	168.41
Offsite	Black Creek Aquifer	CUMBERLAND-2D	04/07/22	449987.54	2074019.139	47 to 57	129.23	4.89	124.34
Offsite	Surficial Aquifer	CUMBERLAND-2S	04/07/22	449979.1	2074020.858	7 to 17	129.06	4.79	124.27

**TABLE A4**  
**GROUNDWATER ELEVATIONS - Q2 2022**  
**Chemours Fayetteville Works, North Carolina**

Area <sup>1</sup>	Water Bearing Unit <sup>2</sup>	Well ID	Gauging Date	Northing (ft, SPCS NAD83) <sup>3</sup>	Easting (ft, SPCS NAD83) <sup>3</sup>	Screened Interval (ft)	TOC Elevation (ft, NAVD 88) <sup>4</sup>	Depth to Water (ft from TOC)	Water Level (ft, NAVD88) <sup>4</sup>
Offsite	Black Creek Aquifer	CUMBERLAND-3D	04/07/22	423248.115	2060409.157	22 to 27	78.79	8.34	70.45
Offsite	Surficial Aquifer	CUMBERLAND-3S	04/07/22	423254.641	2060413.302	9 to 14	79.06	8.08	70.98
Offsite	Black Creek Aquifer	CUMBERLAND-4D	04/07/22	413095.774	2078249.953	57 to 67	119.22	14.85	104.37
Offsite	Surficial Aquifer	CUMBERLAND-4S	04/07/22	413086.626	2078255.528	10 to 20	119.36	8.88	110.48
Offsite	Black Creek Aquifer	CUMBERLAND-5D	04/07/22	405619.17	2138238.586	52 to 57	106.67	8.63	98.04
Offsite	Surficial Aquifer	CUMBERLAND-5S	04/07/22	405623.274	2138233.369	14 to 24	106.65	4.90	101.75
Offsite	Black Creek Aquifer	ROBESON-1D	04/07/22	381416.282	2020158.933	42.75 to 52.75	156.36	15.65	140.71
Offsite	Surficial Aquifer	ROBESON-1S	04/07/22	381408.19	2020156.855	17 to 27	156.66	13.86	142.80

**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.
- ft - feet  
NAVD88 - North American Vertical Datum of 1988  
NM - Not measured, well inaccessible during monitoring event.  
NA - Not available.  
SPCS NAD83 - State Plane Coordinate System North American Datum 1983  
TOC - top of casing



**TABLE A5**  
**GROUNDWATER MONITORING WELL SAMPLE COLLECTION AND WATER LEVEL MEASUREMENT SUMMARY**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

Area	Water Bearing Unit <sup>1</sup>	Well ID	Adjacent Surface Water Feature	April 2022	
				Sample Collection Date	Synoptic Water Level Date
Onsite	Black Creek Aquifer	EW-3	Cape Fear River	4/27/2022	4/7/2022
Onsite	Floodplain Deposits	LTW-01	Cape Fear River	4/14/2022	4/7/2022
Onsite	Black Creek Aquifer	LTW-02	Cape Fear River	4/15/2022	4/7/2022
Onsite	Floodplain Deposits	LTW-03	Cape Fear River	4/26/2022	4/7/2022
Onsite	Floodplain Deposits	LTW-04	Cape Fear River	4/13/2022	4/7/2022
Onsite	Black Creek Aquifer	LTW-05	Cape Fear River	4/26/2022	4/7/2022
Onsite	Surficial Aquifer	PIW-1D	Cape Fear River / Willis Creek	4/12/2022	4/7/2022
Onsite	Floodplain Deposits	PIW-1S	Cape Fear River / Willis Creek	4/12/2022	4/7/2022
Onsite	Black Creek Aquifer	PIW-3D	Cape Fear River	4/14/2022	4/7/2022
Onsite	Black Creek Aquifer	PIW-7D	Cape Fear River	4/26/2022	4/7/2022
Onsite	Floodplain Deposits	PIW-7S	Cape Fear River	4/26/2022	4/7/2022
Onsite	Surficial Aquifer	PW-04	Old Outfall	4/15/2022	4/7/2022
Onsite	Surficial Aquifer	PW-06	Georgia Branch Creek	4/11/2022	4/7/2022
Onsite	Surficial Aquifer	PW-07	Georgia Branch Creek	-- <sup>2</sup>	4/7/2022
Onsite	Black Creek Aquifer	PW-09	Willis Creek	4/28/2022	4/7/2022
Onsite	Black Creek Aquifer	PZ-22	Cape Fear River	4/13/2022	4/7/2022
Onsite	Surficial Aquifer	SMW-10	Willis Creek	4/11/2022	4/7/2022
Onsite	Surficial Aquifer	SMW-11	Willis Creek	4/12/2022	4/7/2022
Onsite	Black Creek Aquifer	SMW-12	Willis Creek	4/27/2022	4/7/2022

**Notes:**

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

2 - PW-07 dry during Q2 sampling event and could not be sampled.

-- - Sample not collected

**TABLE A6**  
**GROUNDWATER FIELD PARAMETERS**  
**Chemours Fayetteville Works, North**  
**Carolina**

Location	Date	Time	pH (S.U.)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Specific Conductance (µS/cm)	Temperature (°C)
LTW-01	04/14/22	14:00	4.2	0.92	431	3.0	129	17.9
EW-3	04/27/22	14:00	4.8	0.08	132	18	162	21.2
LTW-02	04/15/22	12:40	5.2	2.7	170	0.34	67	18.9
LTW-03	04/26/22	12:25	4.5	0.36	222	2.6	92	18.5
LTW-04	04/13/22	16:10	4.5	0	313	20	91	19.7
LTW-05	04/26/22	12:22	5.9	0.10	254	2.7	109	18.4
PIW-1D	04/12/22	13:05	3.6	0.03	399	19	165	18.8
PIW-1S	04/12/22	10:45	4.1	3.1	327	111	164	25.4
PIW-3D	04/14/22	13:50	3.9	0.08	158	2.2	83	18.0
PIW-7D	04/26/22	13:55	4.1	0.03	223	20	98	19.7
PIW-7S	04/26/22	14:15	7.9	0.09	23	5.2	143	18.1
PW-04 <sup>1</sup>	04/13/22	13:46	--	--	--	--	--	--
PW-06	04/11/22	11:25	4.5	4.4	262	1.5	54	17.3
PW-07	04/12/22	10:15	5.6	5.9	211	69.2	58	25.1
PW-09 <sup>2</sup>	04/28/22	11:00	--	--	--	--	--	--
PZ-22	04/13/22	16:20	4.9	0.12	155	1.8	101	18.9
SMW-10	04/11/22	14:55	5.3	0.07	65	2.5	80	20.0
SMW-11	04/12/22	14:25	4.2	4.7	395	1.9	49	18.3
SMW-12	04/27/22	15:40	3.5	0.45	151	11	235	18.1

**Notes:**

- 1 - Well went dry; field parameters were not recorded.
- 2 - Stabilized Parameters were unattainable even after numerous trials.
- °C - degrees Celsius
- mg/L - milligrams per liter
- µS/cm - microsiemens per centimeter
- mV- millivolts
- NTU - nephelometric Turbidity Unit
- S.U. - Standard Units
- - not measured

**TABLE A7**  
**SEEP AND SURFACE WATER FIELD PARAMETERS**  
**Chemours Fayetteville Works, North Carolina**

Location	Date	pH (S.U.)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Specific Conductivity ( $\mu$ S/cm)	Temperature ( $^{\circ}$ C)
CFR-BLADEN	04/19/22	6.5	6.1	66.2	13	118	18.9
CFR-RM-76	04/19/22	5.2	6.4	400.1	10	96	18.4
CFR-KINGS	04/21/22	7.1	7.7	155.3	68	630	22.2
CFR-TARHEEL	04/19/22	6.5	6.0	308.7	16	118	19.2
GBC-1	04/19/22	5.2	7.5	310.0	10	118	16.9
LOCK-DAM-NORTH <sup>1</sup>	--	--	--	--	--	--	--
LOCK-DAM-SEEP	04/19/22	6.3	7.0	66.5	31.1	156	16.4
OLD-1	04/26/22	5.2	7.4	178.3	6.3	190	26.4
OUTFALL 002	04/20/22	7.1	9.4	4.9	21.1	186	17.6
INTAKE AT FACILITY	04/20/22	7.0	8.4	434.1	10.5	131	20.3
SEEP-A-EFF	04/20/22	4.7	2.3	185.2	0	131	14.9
SEEP-B-EFF	04/20/22	6.1	3.6	141.2	0	135	15.1
SEEP-C-EFF	04/20/22	6.6	4.4	8.4	0	118	17.1
SEEP-D-EFF	04/20/22	6.3	3.2	27.8	0	133	15.7
WC-1	04/26/22	4.6	7.2	228.8	4.6	89	26.8

**Notes:**

1 - Lock and Dam North was inaccessible due to river height.

-- - not measured

$^{\circ}$ C - degrees Celsius

mg/L - milligrams per liter

$\mu$ S/cm - microsiemens per centimeter

mV- millivolts

NTU - Nephelometric Turbidity Units

S.U. - Standard Units

**TABLE A8**  
**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	CAP2Q22-CFR-BLADEN-041922	CAP2Q22-CFR-KINGS-042122	CAP2Q22-CFR-RM-76-041922	CAP2Q22-CFR-TARHEEL-041922
Sample Date	04/19/22	04/21/22	04/19/22	04/19/22
QA/QC				
Sample Delivery Group (SDG)	320-87040-1	320-87069-1	320-87040-1	320-87040-1
Lab Sample ID	320-87040-3	320-87069-1	320-87040-2	320-87040-4
<b>Table 3+ SOP (ng/L)</b>				
HFPO-DA	7.4	3.3	<2.0	8.5
PFMOAA	9.2	<2.0	<2.0	8.1
PFO2HxA	6.2	4.0	<2.0	7.7
PFO3OA	2.6	<2.0	<2.0	2.6
PFO4DA	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0
PMPA	<10	<10	<10	<10
PEPA	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0
R-PSDA	3.4 J	3.8 J	<2.0	3.9 J
Hydrolyzed PSDA	2.5 J	<2.0	<2.0	2.2 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0
NVHOS	2.7	5.5	4.9	4.9
EVE Acid	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0	<2.0	<2.0	<2.0
PES	<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
Perfluoroheptanoic Acid	3.2	3.0	3.3	3.4
<b>Total Attachment C<sup>1,2</sup></b>	<b>25</b>	<b>7.3</b>	<b>ND</b>	<b>27</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>28</b>	<b>13</b>	<b>4.9</b>	<b>32</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>34</b>	<b>17</b>	<b>4.9</b>	<b>38</b>

**TABLE A8**  
**SEEP AND SURFACE WATER ANALYTICAL RESULTS**  
**Chemours Fayetteville Works, North Carolina**

Location ID	CFR-TARHEEL	GBC-1	Lock-Dam Seep	OLDOF-1
Field Sample ID	CAP2Q22-CFR-TARHEEL-24-042022	CAP2Q22-GBC-1-041922	CAP2Q22-LOCK-DAM-SEEP-041922	CAP2Q22-OLDOF-1-24-042622
Sample Date	04/20/22	04/19/22	04/19/22	04/26/22
QA/QC				
Sample Delivery Group (SDG)	320-87069-1	320-87040-1	320-87040-1	320-87316-1
Lab Sample ID	320-87069-2	320-87040-5	320-87040-1	320-87316-2
<b>Table 3+ SOP (ng/L)</b>				
HFPO-DA	4.1 J	480	7,900	260
PFMOAA	19 J	38	75,000	310
PFO2HxA	9.3 J	240	25,000	450
PFO3OA	2.8 J	49	10,000	160
PFO4DA	<2.0	15	2,100	62
PFO5DA	<2.0	<2.0	130	21
PMPA	<10	390	6,500	180
PEPA	<20	170	2,300	68
PS Acid	<2.0	<2.0	<9.8	<2.0
Hydro-PS Acid	<2.0	21	150	8.3
R-PSDA	24 J	12 J	400 J	9.3 J
Hydrolyzed PSDA	10 J	<2.0	350 J	10 J
R-PSDCA	<2.0	<2.0	<8.7	<2.0
NVHOS	11 J	4.5	1,100	16
EVE Acid	<2.0	<2.0	<8.7	<2.0
Hydro-EVE Acid	<2.0	<2.0	130	5.0
R-EVE	5.0 J	5.7 J	130 J	<2.0
PES	<2.0	<2.0	<3.4	<2.0
PFECA B	<2.0	<2.0	<13	<2.0
PFECA-G	<2.0	<2.0	<24	<2.0
Perfluoroheptanoic Acid	3.3	2.1	64	<2.0
<b>Total Attachment C<sup>1,2</sup></b>	<b>35</b>	<b>1,400</b>	<b>130,000</b>	<b>1,500</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>46</b>	<b>1,400</b>	<b>130,000</b>	<b>1,500</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>85</b>	<b>1,400</b>	<b>130,000</b>	<b>1,600</b>

**TABLE A8  
SEEP AND SURFACE WATER ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Location ID	OUTFALL 002	RIVER WATER INTAKE 2	SEEP-A-EFF	SEEP-B-EFF
Field Sample ID	CAP2Q22-OUTFALL-002-24-042022	RIVER-WATER-INTAKE2-24-042022	CAP2Q22-SEEP-A-EFF-24-042022	CAP2Q22-SEEP-B-EFF-24-042022
Sample Date	04/20/22	04/20/22	04/20/22	04/20/22
QA/QC				
Sample Delivery Group (SDG)	320-87040-1	320-87040-1	320-87042-1	320-87042-1
Lab Sample ID	320-87040-7	320-87040-8	320-87042-1	320-87042-2
<b>Table 3+ SOP (ng/L)</b>				
HFPO-DA	47	11	46	3.7
PFMOAA	8.2	<2.0	110	<2.0
PFO2HxA	9.4	6.6	78	6.9
PFO3OA	3.4	<2.0	29	<2.0
PFO4DA	<2.0	<2.0	16	<2.0
PFO5DA	<2.0	<2.0	8.7	<2.0
PMPA	11	<10	18	<10
PEPA	<20	<20	<20	<20
PS Acid	<2.0	<2.0	4.4	<2.0
Hydro-PS Acid	<2.0	<2.0	2.7	<2.0
R-PSDA	4.9 J	5.0 J	3.6 J	<2.0
Hydrolyzed PSDA	4.4 J	<2.0	23 J	<2.0
R-PSDCA	<2.0	<2.0	<2.0	<2.0
NVHOS	4.2	4.5	2.3	<2.0
EVE Acid	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	3.0	<2.0
R-EVE	<2.0	2.1 J	<2.0	<2.0
PES	<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
Perfluoroheptanoic Acid	3.2	2.6	<2.0	<2.0
<b>Total Attachment C<sup>1,2</sup></b>	<b>79</b>	<b>18</b>	<b>310</b>	<b>11</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>83</b>	<b>22</b>	<b>320</b>	<b>11</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>93</b>	<b>29</b>	<b>340</b>	<b>11</b>

**TABLE A8  
SEEP AND SURFACE WATER ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Location ID	SEEP-C-EFF	SEEP-D-EFF	SEEP-D-EFF	WC-1
Field Sample ID	CAP2Q22-SEEP-C-EFF-24-042022	CAP2Q22-SEEP-D-EFF-24-042022	CAP2Q22-SEEP-D-EFF-24-042022-D	CAP2Q22-WC-1-24-042622
Sample Date	04/20/22	04/20/22	04/20/22	04/26/22
QA/QC			Field Duplicate	
Sample Delivery Group (SDG)	320-87042-1	320-87042-1	320-87042-1	320-87316-1
Lab Sample ID	320-87042-3	320-87042-4	320-87042-5	320-87316-1
<b>Table 3+ SOP (ng/L)</b>				
HFPO-DA	9.8	2.4	2.2	510
PFMOAA	<2.0	<2.0	<2.0	1,100
PFO2HxA	14	3.5 J	3.4	620
PFO3OA	2.3	<2.0	<2.0	120
PFO4DA	<2.0	<2.0	<2.0	24
PFO5DA	<2.0	<2.0	<2.0	<2.0
PMPA	<10	<10 UJ	<10	580
PEPA	<20	<20	<20	160
PS Acid	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	12
R-PSDA	<2.0	<2.0 UJ	<2.0	49 J
Hydrolyzed PSDA	<2.0	<2.0 UJ	<2.0	310 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0
NVHOS	<2.0	<2.0 UJ	<2.0	23
EVE Acid	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	9.5
R-EVE	<2.0	<2.0 UJ	<2.0	25 J
PES	<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
Perfluoroheptanoic Acid	<2.0	<2.0	<2.0	2.4
<b>Total Attachment C<sup>1,2</sup></b>	<b>26</b>	<b>5.9</b>	<b>5.6</b>	<b>3,100</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>26</b>	<b>5.9</b>	<b>5.6</b>	<b>3,200</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>26</b>	<b>5.9</b>	<b>5.6</b>	<b>3,500</b>

**TABLE A8  
SEEP AND SURFACE WATER ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Location ID	EB	EB	FBLK
Field Sample ID	CAP2Q22-EQBLK-PP-041922	CAP2Q22-EQBLK-IS-042022	CAP2Q22-FBLK-042022
Sample Date	04/19/22	04/20/22	04/20/22
QA/QC	Equipment Blank	Equipment Blank	Field Blank
Sample Delivery Group (SDG)	320-87040-1	320-87042-1	320-87042-1
Lab Sample ID	320-87040-6	320-87042-6	320-87042-7
<b>Table 3+ SOP (ng/L)</b>			
HFPO-DA	<2.0	<2.0	<2.0
PFMOAA	<2.0	<2.0	<2.0
PFO2HxA	<2.0	<2.0	<2.0
PFO3OA	<2.0	<2.0	<2.0
PFO4DA	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0
PMPA	<10	<10	<10
PEPA	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0
R-PSDA	<2.0	<2.0	<2.0
Hydrolyzed PSDA	<2.0	<2.0	<2.0
R-PSDCA	<2.0	<2.0	<2.0
NVHOS	<2.0	<2.0	<2.0
EVE Acid	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0
R-EVE	<2.0	<2.0	<2.0
PES	<2.0	<2.0	<2.0
PFECA B	<2.0	<2.0	<2.0
PFECA-G	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	<2.0	<2.0	<2.0
<b>Total Attachment C<sup>1,2</sup></b>	ND	ND	ND
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	ND	ND	ND
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	ND	ND	ND

**Notes:**

- B - analyte detected in an associated blank
- Bold** - Analyte detected above associated reporting limit
- EPA - Environmental Protection Agency
- 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
- SOP - standard operating procedure
- < - Analyte not detected above associated reporting limit.
- - Data not available
- 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, and R-EVE.



**TABLE A9  
GROUNDWATER ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit <sup>1</sup>	Black Creek Aquifer	Floodplain Deposits	Black Creek Aquifer	Floodplain Deposits
Location ID	EW-3	LTW-01	LTW-02	LTW-03
Field Sample ID	CAP2Q22-EW-3-042722	CAP2Q22-LTW-01-041422	CAP2Q22-LTW-02-041522	CAP2Q22-LTW-03-042622
Sample Date	04/27/22	04/14/22	04/15/22	04/26/22
QA/QC				
Sample Delivery Group (SDG)	320-87314-1	320-87044-1	320-87044-1	320-87314-1
Lab Sample ID	320-87314-7	320-87044-5	320-87044-6	320-87314-3
<b>Table 3+ SOP (ng/L)</b>				
HFPO-DA	15,000	16,000	4,500	11,000
PFMOAA	37,000	19,000	15,000	130,000
PFO2HxA	18,000	19,000	7,500	36,000
PFO3OA	6,900	4,400	1,700	6,100
PFO4DA	1,800	1,500	150	220
PFO5DA	<78	300	<78	<78
PMPA	6,000	16,000	3,600	12,000
PEPA	2,100	5,400	950	3,100
PS Acid	<20	<20	<20	<20
Hydro-PS Acid	260	350	<6.1	<6.1
R-PSDA	740 J	740 J	<71	720 J
Hydrolyzed PSDA	3,100 J	400 J	530 J	4,600 J
R-PSDCA	<17	<17	<17	<17
NVHOS	490	320	210	1,200
EVE Acid	<17	<17	<17	<17
Hydro-EVE Acid	1,000	120	26	45
R-EVE	650 J	440 J	<72	420 J
PES	<6.7	<6.7	<6.7	<6.7
PFECA B	<27	<27	<27	<27
PFECA-G	<48	<48	<48	<48
Perfluoroheptanoic Acid	90	47	7.3	20
<b>Total Attachment C<sup>2,3</sup></b>	<b>87,000</b>	<b>82,000</b>	<b>33,000</b>	<b>200,000</b>
<b>Total Table 3+ (17 compounds)<sup>3,4</sup></b>	<b>89,000</b>	<b>82,000</b>	<b>34,000</b>	<b>200,000</b>
<b>Total Table 3+ (20 compounds)<sup>3</sup></b>	<b>93,000</b>	<b>84,000</b>	<b>34,000</b>	<b>210,000</b>

**TABLE A9  
GROUNDWATER ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit <sup>1</sup>	Floodplain Deposits	Black Creek Aquifer	Black Creek Aquifer	Floodplain Deposits
Location ID	LTW-04	LTW-05	PIW-1D	PIW-1S
Field Sample ID	CAP2Q22-LTW-04-041322	CAP2Q22-LTW-05-042622	CAP2Q22-PIW-1D-041222	CAP2Q22-PIW-1S-041222
Sample Date	04/13/22	04/26/22	04/12/22	04/12/22
QA/QC				
Sample Delivery Group (SDG)	320-87044-1	320-87314-1	320-86778-1	320-87044-1
Lab Sample ID	320-87044-7	320-87314-4	320-86778-6	320-87044-3
<b>Table 3+ SOP (ng/L)</b>				
HFPO-DA	22,000	14,000	9,900	13,000
PFMOAA	69,000	130,000	10,000	4,600
PFO2HxA	27,000	36,000	7,700	8,500
PFO3OA	5,500	8,300	1,500	1,500
PFO4DA	750	2,300	480	390
PFO5DA	<78	<78	<78	<78
PMPA	21,000	3,600	7,500	9,600
PEPA	7,400	480	2,600	3,400
PS Acid	<20	<20	<20	<20
Hydro-PS Acid	180	170	74	110
R-PSDA	1,900 J	350 J	<71	520 J
Hydrolyzed PSDA	4,500 J	720 J	<38	<38
R-PSDCA	<17	17	<17	<17
NVHOS	1,500	970	170	100
EVE Acid	<17	<17	<17	<17
Hydro-EVE Acid	580	650	28	28
R-EVE	1,900 J	500 J	<72	370 J
PES	15	<6.7	<6.7	17
PFECA B	<27	<27	<27	<27
PFECA-G	<48	<48	<48	<48
Perfluoroheptanoic Acid	70	200	18	21
<b>Total Attachment C<sup>2,3</sup></b>	<b>150,000</b>	<b>190,000</b>	<b>40,000</b>	<b>41,000</b>
<b>Total Table 3+ (17 compounds)<sup>3,4</sup></b>	<b>150,000</b>	<b>200,000</b>	<b>40,000</b>	<b>41,000</b>
<b>Total Table 3+ (20 compounds)<sup>3</sup></b>	<b>160,000</b>	<b>200,000</b>	<b>40,000</b>	<b>42,000</b>

**TABLE A9  
GROUNDWATER ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit <sup>1</sup>	Floodplain Deposits	Black Creek Aquifer	Black Creek Aquifer	Floodplain Deposits
Location ID	PIW-1S	PIW-3D	PIW-7D	PIW-7S
Field Sample ID	CAP2Q22-PIW-1S-041222-Z	CAP2Q22-PIW-3D-041422	CAP2Q22-PIW-7D-042622	CAP2Q22-PIW-7S-042622
Sample Date	04/12/22	04/14/22	04/26/22	04/26/22
QA/QC				
Sample Delivery Group (SDG)	320-87044-1	320-87044-1	320-87314-1	320-87314-1
Lab Sample ID	320-87044-4	320-87044-8	320-87314-2	320-87314-1
<b>Table 3+ SOP (ng/L)</b>				
HFPO-DA	13,000	12,000	18,000	9,100
PFMOAA	6,700	5,900	140,000	11,000
PFO2HxA	10,000	9,300	41,000	7,100
PFO3OA	1,800	1,800	7,300	2,500
PFO4DA	430	870	1,700	300
PFO5DA	<78	<78	<78	<78
PMPA	11,000	10,000	4,600	5,100
PEPA	4,000	3,400	920	2,100
PS Acid	<20	<20	<20	<20
Hydro-PS Acid	51	140	170	180
R-PSDA	520 J	400 J	730 J	460 J
Hydrolyzed PSDA	<38	<38	1,200 J	<38
R-PSDCA	<17	<17	<17	<17
NVHOS	160	140	1,200	440
EVE Acid	<17	<17	<17	<17
Hydro-EVE Acid	25	48	500	280
R-EVE	440 J	<72	850 J	610 J
PES	30	<6.7	<6.7	<6.7
PFECA B	<27	<27	<27	<27
PFECA-G	<48	<48	<48	<48
Perfluoroheptanoic Acid	19	29	110	29
<b>Total Attachment C<sup>2,3</sup></b>	<b>47,000</b>	<b>43,000</b>	<b>210,000</b>	<b>37,000</b>
<b>Total Table 3+ (17 compounds)<sup>3,4</sup></b>	<b>47,000</b>	<b>44,000</b>	<b>220,000</b>	<b>38,000</b>
<b>Total Table 3+ (20 compounds)<sup>3</sup></b>	<b>48,000</b>	<b>44,000</b>	<b>220,000</b>	<b>39,000</b>

**TABLE A9  
GROUNDWATER ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit <sup>1</sup>	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer
Location ID	PW-04	PW-04	PW-06	PW-06
Field Sample ID	CAP2Q22-PW-04-041522	CAP2Q22-PW-04-041522-Z	CAP2Q22-PW-06-041122	CAP2Q22-PW-06-041122-D
Sample Date	04/15/22	04/15/22	04/11/22	04/11/22
QA/QC				Field Duplicate
Sample Delivery Group (SDG)	320-87044-1	320-87044-1	320-86778-1	320-86778-1
Lab Sample ID	320-87044-1	320-87044-2	320-86778-1	320-86778-2
<b>Table 3+ SOP (ng/L)</b>				
HFPO-DA	1,100	880	1,700	1,800
PFMOAA	350	330	200	230
PFO2HxA	1,000	1,000	760	760
PFO3OA	480	430	120	120
PFO4DA	<59	<59	94	130
PFO5DA	<78	<78	<78	<78
PMPA	1,300	2,000	1,200	1,500
PEPA	440	420	520	500
PS Acid	<20	<20	<20	<20
Hydro-PS Acid	<6.1	<6.1	<6.1	<6.1
R-PSDA	<71	<71	<71	<71
Hydrolyzed PSDA	<38	<38	<38	<38
R-PSDCA	<17	<17	<17	<17
NVHOS	<15	<15	<15	<15
EVE Acid	<17	<17	<17	<17
Hydro-EVE Acid	<14	<14	<14	<14
R-EVE	<72	<72	<72	<72
PES	8.6	34	<6.7	<6.7
PFECA B	<27	<27	<27	<27
PFECA-G	<48	<48	<48	<48
Perfluoroheptanoic Acid	6.6	5.4	6.9	6.6
<b>Total Attachment C<sup>2,3</sup></b>	<b>4,700</b>	<b>5,100</b>	<b>4,600</b>	<b>5,000</b>
<b>Total Table 3+ (17 compounds)<sup>3,4</sup></b>	<b>4,700</b>	<b>5,100</b>	<b>4,600</b>	<b>5,000</b>
<b>Total Table 3+ (20 compounds)<sup>3</sup></b>	<b>4,700</b>	<b>5,100</b>	<b>4,600</b>	<b>5,000</b>

**TABLE A9  
GROUNDWATER ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit <sup>1</sup>	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Surficial Aquifer
Location ID	PW-09	PW-09	PZ-22	SMW-10
Field Sample ID	CAP2Q22-PW-09-042822	CAP2Q22-PW-09-042822-Z	CAP2Q22-PZ-22-041322	CAP2Q22-SMW-10-041122
Sample Date	04/28/22	04/28/22	04/13/22	04/11/22
QA/QC				
Sample Delivery Group (SDG)	320-87314-1	320-87314-1	320-87044-1	320-86778-1
Lab Sample ID	320-87314-8	320-87314-9	320-87044-9	320-86778-3
<b>Table 3+ SOP (ng/L)</b>				
HFPO-DA	<81	<81	12,000	2.6
PFMOAA	<80	<80	160,000	100
PFO2HxA	<27	<27	40,000	8.3
PFO3OA	<39	<39	4,000	<2.0
PFO4DA	<59	<59	160	<2.0
PFO5DA	<78	<78	<78	<2.0
PMPA	<620	<620	5,200	18
PEPA	<20	<20	1,100	<20
PS Acid	<20	<20	<20	<2.0
Hydro-PS Acid	<6.1	<6.1	21	<2.0
R-PSDA	<71	<71	370 J	<2.0
Hydrolyzed PSDA	<38	<38	780 J	<2.0
R-PSDCA	<17	<17	<17	<2.0
NVHOS	<15	<15	1,200	<2.0
EVE Acid	<17	<17	<17	<2.0
Hydro-EVE Acid	<14	<14	41	<2.0
R-EVE	<72	<72	370 J	<2.0
PES	<6.7	<6.7	<6.7	<2.0
PFECA B	<27	<27	<27	<2.0
PFECA-G	<48	<48	<48	<2.0
Perfluoroheptanoic Acid	<2.0	<2.0	18	<2.0
<b>Total Attachment C<sup>2,3</sup></b>	ND	ND	220,000	130
<b>Total Table 3+ (17 compounds)<sup>3,4</sup></b>	ND	ND	220,000	130
<b>Total Table 3+ (20 compounds)<sup>3</sup></b>	ND	ND	230,000	130

**TABLE A9  
GROUNDWATER ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit <sup>1</sup>	Surficial Aquifer	Black Creek Aquifer	--
Location ID	SMW-11	SMW-12	EB
Field Sample ID	CAP2Q22-SMW-11-041222	CAP2Q22-SMW-12-042722	CAP2Q22-EQBLK-PP-041122
Sample Date	04/12/22	04/27/22	04/11/22
QA/QC			Equipment Blank
Sample Delivery Group (SDG)	320-86778-1	320-87314-1	320-86778-1
Lab Sample ID	320-86778-7	320-87314-6	320-86778-5
<b>Table 3+ SOP (ng/L)</b>			
HFPO-DA	<b>4,800</b>	<b>1,600</b>	<2.0
PFMOAA	<b>3,700</b>	<b>4,000</b>	<2.0
PFO2HxA	<b>3,200</b>	<b>1,700</b>	<2.0
PFO3OA	<b>520</b>	<b>130</b>	<2.0
PFO4DA	<b>330</b>	<59	<2.0
PFO5DA	<78	<78	<2.0
PMPA	<b>3,000</b>	<b>2,100</b>	<10
PEPA	<b>830</b>	<b>440</b>	<20
PS Acid	<20	<20	<2.0
Hydro-PS Acid	<b>64</b>	<6.1	<2.0
R-PSDA	<71	<71	<2.0
Hydrolyzed PSDA	<38	<38	<2.0
R-PSDCA	<17	<17	<2.0
NVHOS	<b>130</b>	<b>68</b>	<2.0
EVE Acid	<17	<17	<2.0
Hydro-EVE Acid	<b>24</b>	<14	<2.0
R-EVE	<72	<72	<2.0
PES	<6.7	<6.7	<2.0
PFECA B	<27	<27	<2.0
PFECA-G	<48	<48	<2.0
Perfluoroheptanoic Acid	<b>14</b>	<2.0	<2.0
<b>Total Attachment C<sup>2,3</sup></b>	<b>16,000</b>	<b>10,000</b>	ND
<b>Total Table 3+ (17 compounds)<sup>3,4</sup></b>	<b>17,000</b>	<b>10,000</b>	ND
<b>Total Table 3+ (20 compounds)<sup>3</sup></b>	<b>17,000</b>	<b>10,000</b>	ND

**TABLE A9  
GROUNDWATER ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

<b>Water Bearing Unit<sup>1</sup></b>	--	--
<b>Location ID</b>	<b>EB</b>	<b>FBLK</b>
<b>Field Sample ID</b>	<b>CAP2Q22-EQBLK-DV-042722</b>	<b>CAP2Q22-FBLK-041122</b>
<b>Sample Date</b>	<b>04/27/22</b>	<b>04/11/22</b>
<b>QA/QC</b>	<b>Equipment Blank</b>	<b>Field Blank</b>
<b>Sample Delivery Group (SDG)</b>	<b>320-87314-1</b>	<b>320-86778-1</b>
<b>Lab Sample ID</b>	<b>320-87314-5</b>	<b>320-86778-4</b>
<b>Table 3+ SOP (ng/L)</b>		
HFPO-DA	<2.0	<2.0
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	<10	<10
PEPA	<20	<20
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	<2.0	<2.0
NVHOS	<2.0	<2.0
EVE Acid	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0
R-EVE	<2.0	<2.0
PES	<2.0	<2.0
PFECA B	<2.0	<2.0
PFECA-G	<2.0	<2.0
Perfluoroheptanoic Acid	<2.0	<2.0
<b>Total Attachment C<sup>2,3</sup></b>	ND	ND
<b>Total Table 3+ (17 compounds)<sup>3,4</sup></b>	ND	ND
<b>Total Table 3+ (20 compounds)<sup>3</sup></b>	ND	ND

**Notes:**

- Bold** - Analyte detected above associated reporting limit
- B - analyte detected in an associated blank
- EPA - Environmental Protection Agency
- 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
- SOP - standard operating procedure
- 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, and R-EVE.

**TABLE A10-1  
SUMMARY OF TOTAL PFAS MASS DISCHARGE BY PATHWAY BEFORE REMEDIES  
Chemours Fayetteville Works, North Carolina**

Pathway	Pathway Name	Total Flow Volume on Sample Date (MG) <sup>1</sup>	Total Attachment C <sup>2</sup>		Total Table 3+ (17 compounds) <sup>3</sup>		Total Table 3+ (20 compounds)	
			Concentration (ng/L)	Mass Loading (mg/s)	Concentration (ng/L)	Mass Loading (mg/s)	Concentration (ng/L)	Mass Loading (mg/s)
1	Upstream River Water and Groundwater <sup>4</sup>	2,319	0	0	5	0.50	5	0.50
2	Willis Creek	2.5	3,100	0.33	3,200	0.35	3,500	0.38
3	Aerial Deposition on Water Features	--	--	5.5E-03	--	5.5E-03	--	5.7E-03
4	Outfall 002 <sup>5</sup>	13.3	61	3.5E-02	61	3.5E-02	64	3.7E-02
4A	Stormwater Treatment System <sup>6</sup>	--	--	--	--	--	--	--
5	Onsite Groundwater (Lower Bound) <sup>7</sup>	--	--	2.79	--	2.85	--	2.94
	Onsite Groundwater (Upper Bound) <sup>7</sup>	--	--	3.29	--	3.37	--	3.47
6A	Seep A <sup>8</sup>	0.25	170,000	1.84	170,000	1.84	200,000	2.17
6B	Seep B <sup>8</sup>	0.15	200,000	1.28	210,000	1.34	230,000	1.47
6C	Seep C <sup>8</sup>	0.08	85,000	0.30	86,000	0.30	88,000	0.31
6D	Seep D <sup>8</sup>	0.14	95,000	0.59	97,000	0.60	99,000	0.61
6E	Lock and Dam Seep	0.01	130,000	0.04	130,000	0.04	130,000	0.04
6F	Lock and Dam Seep North <sup>9</sup>	--	--	--	--	--	--	--
7	Old Outfall 002 <sup>8</sup>	0.56	37,000	0.90	37,000	0.90	37,000	0.90
8	Offsite Adjacent and Downstream Groundwater	--	--	0	--	0	--	0
9	Georgia Branch Creek	2.36	1,400	0.14	1,400	0.14	1,400	0.14
<b>Calculated Total Table 3+ Loading (mg/s) at Tar Heel (Lower Bound)</b>				<b>8.27</b>		<b>9.11</b>		<b>9.71</b>
<b>Calculated Total Table 3+ Loading (mg/s) at Tar Heel (Upper Bound)</b>				<b>8.77</b>		<b>9.62</b>		<b>10.2</b>

**Notes:**

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, Old Outfall 002, 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, and R-EVE.

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 - 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.

6 - 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 April Sampling Event there was no stormwater flow to the stormwater treatment system, so there was no mass loading calculated for this location.

7 - Mass Discharge for Onsite Groundwater was determined using calculations described in Attachment ATT3. The lower and upper bounds on the mass discharge were calculated using two different contour elevation differences in the vicinity of the river frontage: a ten-foot elevation difference (between the 40 and 50 ft contours) and a twenty-foot elevation difference (between the 40 and 60 ft contours) as described in Attachment ATT3.

8 - For April 2022, the concentrations from the influent samples collected at the Old Outfall 002 treatment system and Seep A, B, C and D flow through cell were used to calculate the Before Remedy mass discharge for these pathways.

9 - Lock Dam North was not sampled during the April Sampling event because the seep was under water due the river height.



**TABLE A10-2  
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) <sup>1</sup>	Total Attachment C <sup>2</sup>		Total Table 3+ (17 compounds) <sup>3</sup>		Total Table 3+ (20 compounds)	
			Concentration (ng/L)	Mass Loading (mg/s)	Concentration (ng/L)	Mass Loading (mg/s)	Concentration (ng/L)	Mass Loading (mg/s)
1	Upstream River Water and Groundwater <sup>4</sup>	2,319	0	0	5	0.50	5	0.50
2	Willis Creek	2.5	3,100	0.33	3,200	0.35	3,500	0.38
3	Aerial Deposition on Water Features	--	--	0.01	--	0.01	--	0.01
4	Outfall 002 <sup>5</sup>	13.3	61	0.04	61	0.04	64	0.04
4A	Stormwater Treatment System <sup>6</sup>	--	--	--	--	--	--	--
5	Onsite Groundwater (Lower Bound) <sup>7</sup>	--	--	2.79	--	2.85	--	2.94
	Onsite Groundwater (Upper Bound) <sup>7</sup>	--	--	3.29	--	3.37	--	3.47
6A	Seep A <sup>8</sup>	0.25	310	3.4E-03	320	3.5E-03	340	3.7E-03
6B	Seep B <sup>8</sup>	0.15	11	7.0E-05	11	7.0E-05	11	7.0E-05
6C	Seep C <sup>8</sup>	0.08	26	9.2E-05	26	9.2E-05	26	9.2E-05
6D	Seep D <sup>8</sup>	0.14	5.9	3.7E-05	5.9	3.7E-05	5.9	3.7E-05
6E	Lock and Dam Seep	7.6E-03	130,000	0.04	130,000	0.04	130,000	0.04
6F	Lock and Dam Seep North <sup>9</sup>	--	--	--	--	--	--	--
7	Old Outfall 002 <sup>8</sup>	0.56	1,500	0.04	1,500	0.04	1,600	0.04
8	Offsite Adjacent and Downstream Groundwater	--	--	0	--	0.19	--	0.19
9	Georgia Branch Creek	2.4	1,400	0.14	1,400	0.14	1,400	0.14
<b>Calculated Total Table 3+ Loading (mg/s) at Tar Heel (Lower Bound)</b>				<b>3.39</b>		<b>4.15</b>		<b>4.28</b>
<b>Calculated Total Table 3+ Loading (mg/s) at Tar Heel (Upper Bound)</b>				<b>3.89</b>		<b>4.67</b>		<b>4.80</b>

**Notes:**

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, Old Outfall 002, 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 Perfluorohexanoic acid (PFHpA).

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

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 - 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.

6 - 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 April Sampling Event there was no stormwater flow to the stormwater treatment system, so there was no mass loading calculated for this location.

7 - Mass Discharge for Onsite Groundwater was determined using calculations described in Attachment ATT3. The lower and upper bounds on the mass discharge were calculated using two different contour elevation differences in the vicinity of the river frontage: a ten-foot elevation difference (between the 40 and 50 ft contours) and a twenty-foot elevation difference (between the 40 and 60 ft contours) as described in Attachment ATT3.

8 - For April 2022, the concentrations from the Old Outfall 002 sample collected downgradient from the 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.

9 - Lock Dam North was not sampled during the April Sampling event because the seep was under water due the river height.

**CAPE FEAR RIVER TOTAL TABLE 3+ (17 COMPOUNDS) RELATIVE  
MASS DISCHARGE PER PATHWAY  
Chemours Fayetteville Works, North Carolina**

Pathway <sup>1</sup>	April 2022	
	Lower	Upper
[1] Upstream River Water and Groundwater	5%	5%
[2] Willis Creek	4%	4%
[3] Aerial Deposition on Water Features	<1%	<1%
[4] Outfall 002	<1%	<1%
<i>Outfall 002 (After Remedies)<sup>2</sup></i>	-- <sup>2</sup>	-- <sup>2</sup>
[5] Onsite Groundwater	31%	35%
[6] Seeps	45%	43%
<i>Seeps (After Remedies)<sup>3</sup></i>	1%	<1%
[7] Old Outfall 002	9.9%	9.4%
<i>Old Outfall 002 (After Remedies)<sup>4</sup></i>	<1%	<1%
[8] Offsite Adjacent and Downstream Groundwater	2%	2%
[9] Georgia Branch Creek	2%	2%

**Notes:**

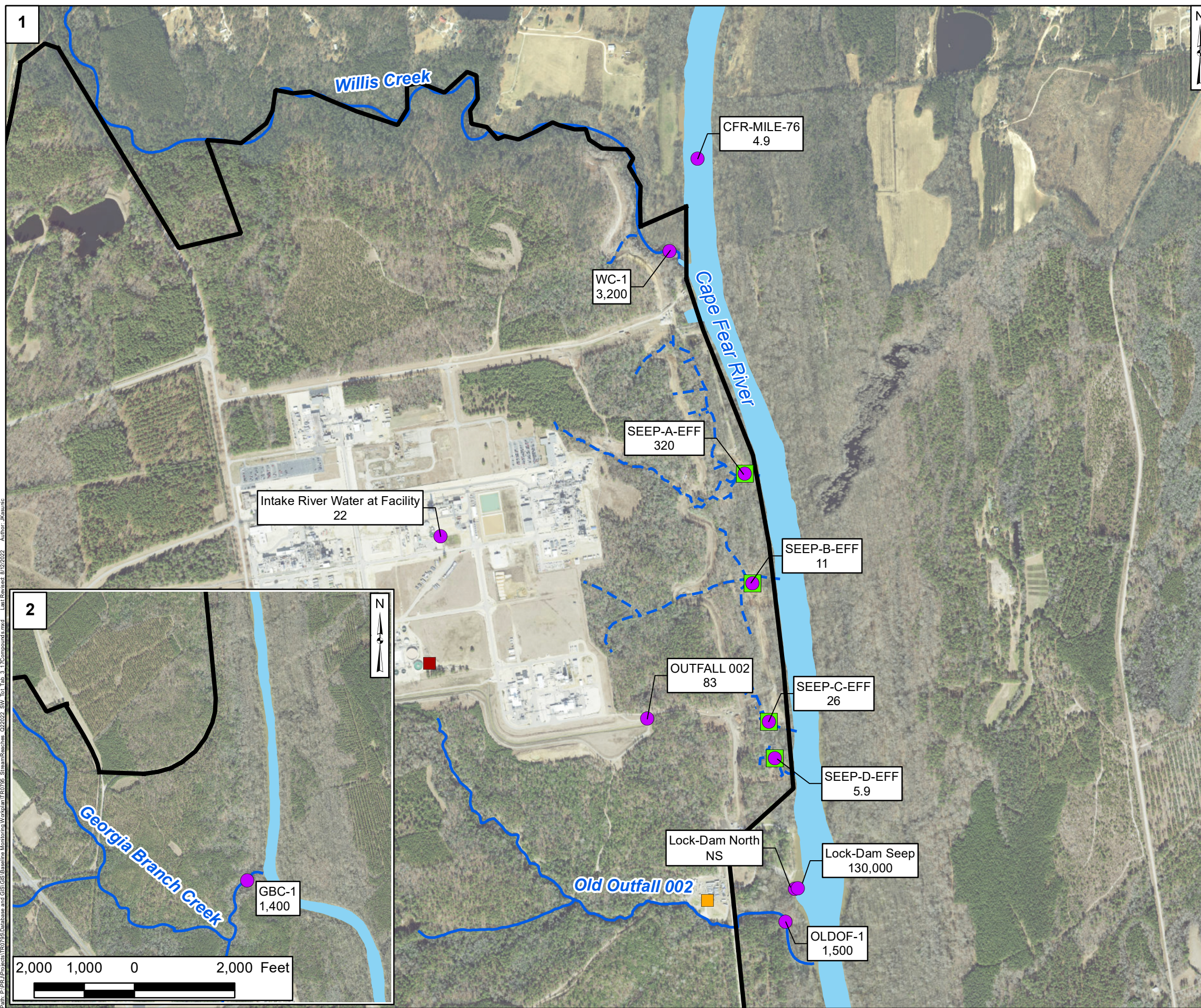
< - less than indicated value.

1 - Relative contributions were calculated using the before remedies Total Table 3+ (17 compounds) model-estimated mass discharges (Table ATT11-1). These relative contributions are presented as a range, which represents the upper and lower bound model estimates. Relative contributions for Total Attachment C and Total Table 3+ (20 compounds) are provided in Attachment ATT1.

2 - The Stormwater Treatment System captures storm water flows in the conveyance network surrounding the Monomers/IXM area that would otherwise flow to Outfall 002 during storm events. There was no flow being treated by the Stormwater Treatment System during the April 2022 sampling events.

3 - The Seeps (After Remedies) relative contributions for April 2022 were calculated using the After Remedies model-estimated mass discharges at Seeps A to D, Lock and Dam Seep (Table ATT11-2).

4 - The Old Outfall 002 (After Remedies) relative contributions for April 2022 were calculated using the After Remedies model-estimated mass discharges at Old Outfall 002 (Attachment ATT1).



**Legend**

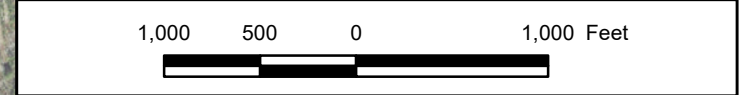
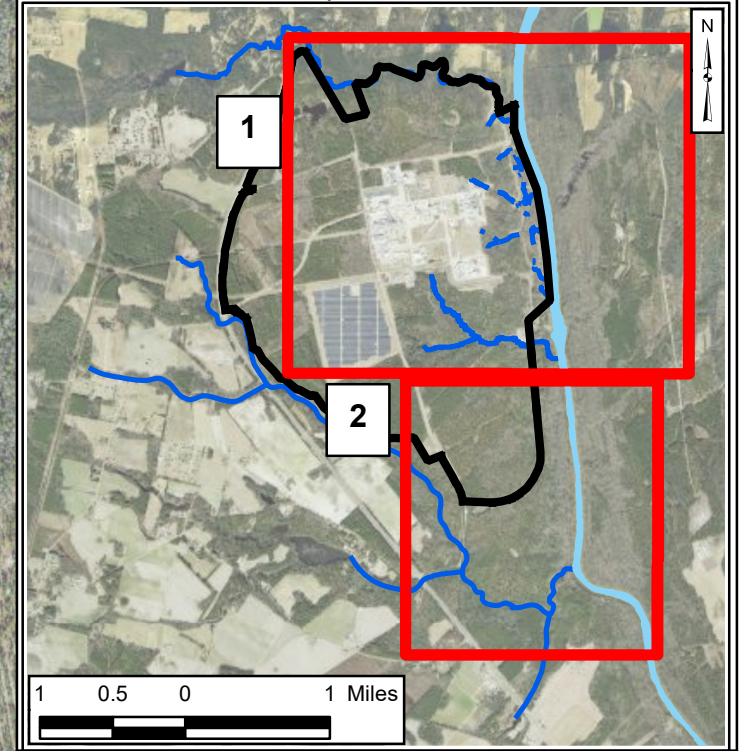
- Sample Location
- Flow-Through Cell
- Old Outfall 002 Treatment System
- Stormwater Treatment System
- Site Boundary
- Observed Seep
- Nearby Tributary

OUTFALL 002 83

Location Name

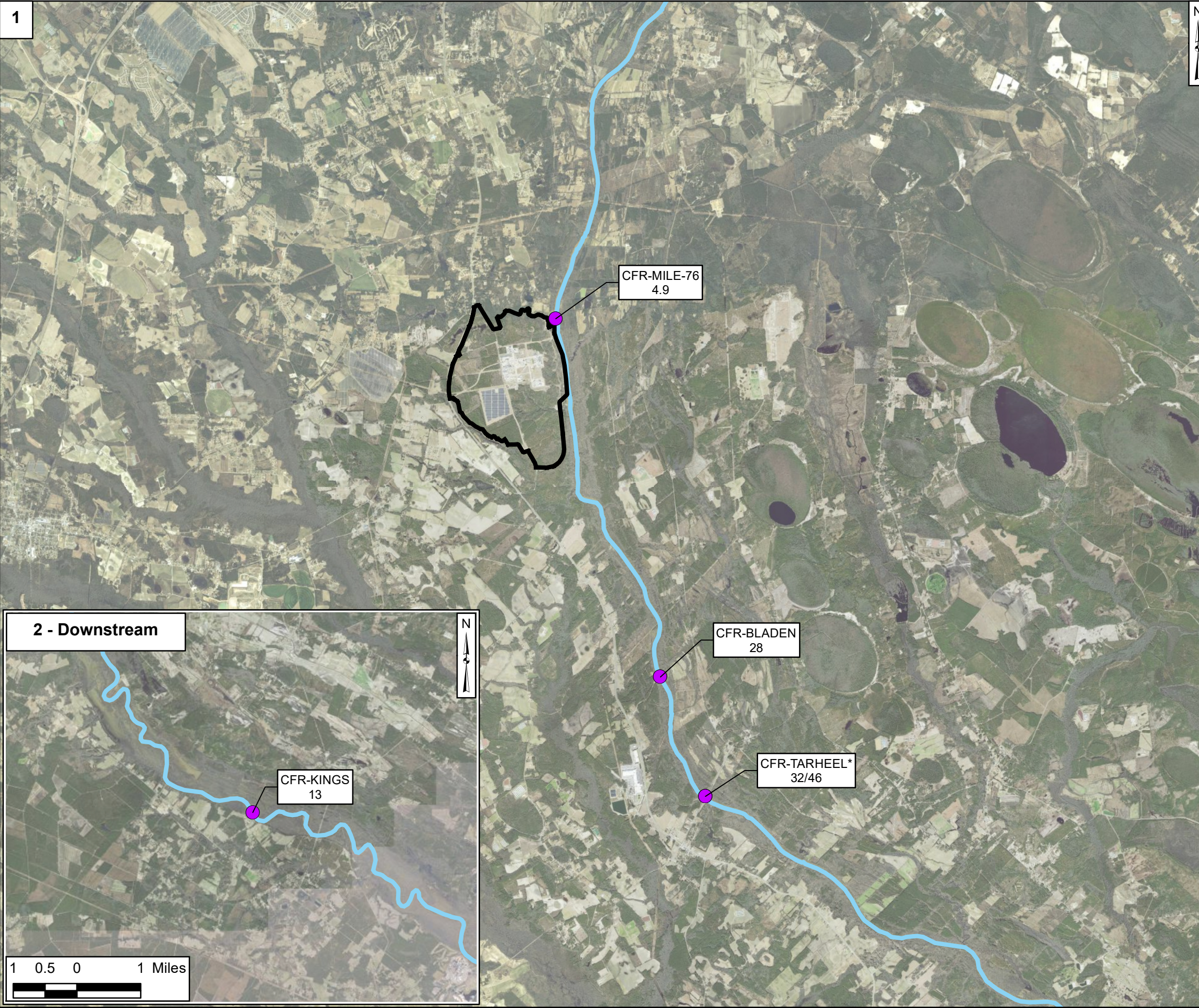
Total Table 3+ Concentration (ng/L)

- Notes:**
- NS - not sampled
  1. All results are in nanograms per liter (ng/L).
  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, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.



**Total Table 3+ Concentrations (17 Compounds) in Surface Water - April 2022**  
Chemours Fayetteville Works, North Carolina

Path: P:\P\Projects\TR0765 Database and GIS\GIS\Baseline Monitor\Workplan\TR0765\_StreamReaches\_C02022\_SV\_T01\_T01\_3\_TPCompounds.mxd Last Revised: 8/22/2022 Author: Jkaurinc  
 Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet Units in Foot US



**Legend**

— Site Boundary    — Cape Fear River

CFR-BLADEN 28 — Location Name

**Notes:**

- \* - Multiple results are shown at CFR-TARHEEL for grab and composite samples.
- 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, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

**2 - Downstream**

**Cape Fear River Total Table 3+ Concentrations (17 Compounds) - April 2022**

Chemours Fayetteville Works, North Carolina

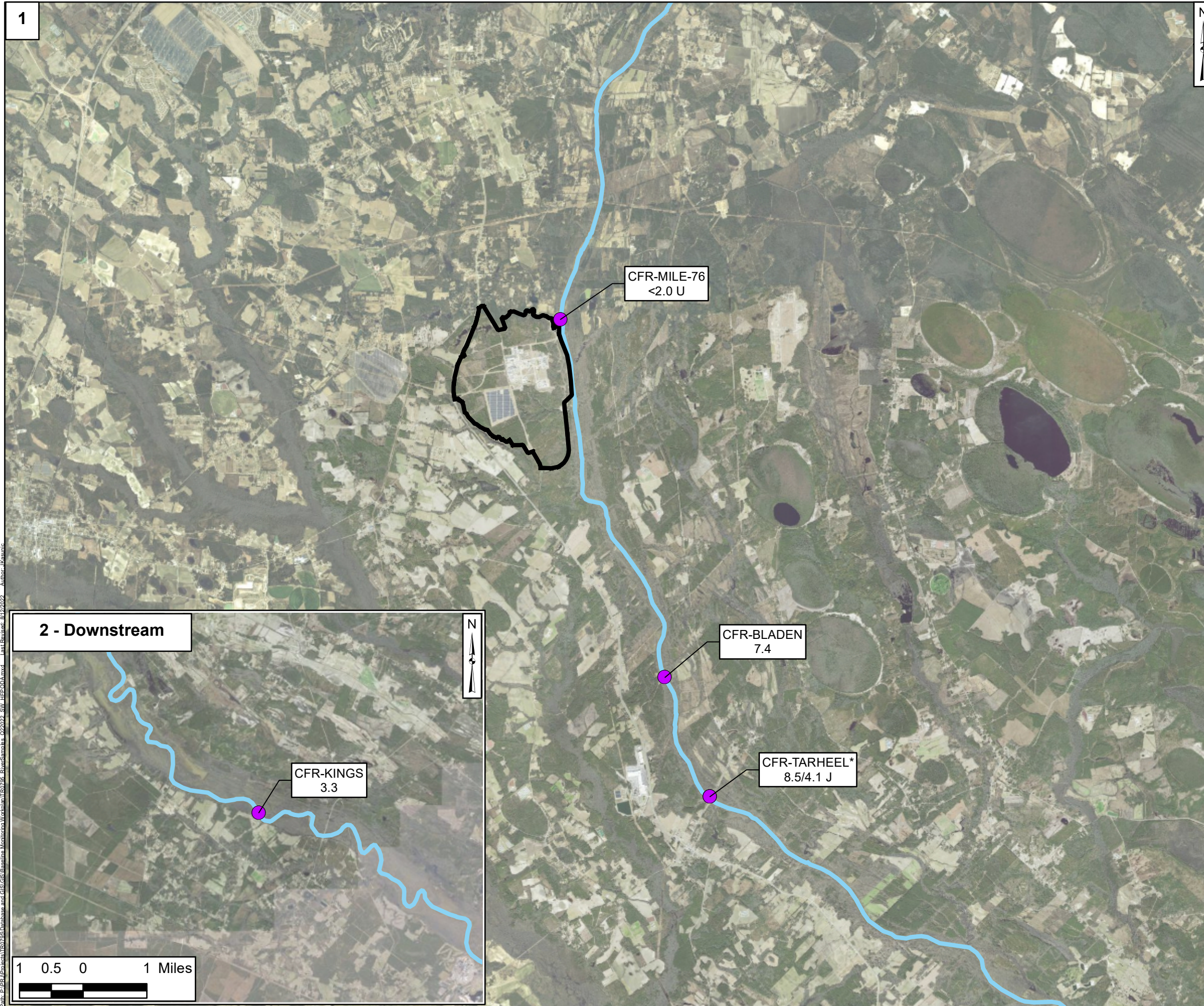
**Geosyntec consultants**    Geosyntec Consultants of NC, P.C.    NC License No.: C 3500 and C 295

Raleigh    September 2022

**Figure A2**

Path: P:\P\Projects\TR0795 Database and GIS\GIS Database\Monitor\Workshop\TR0795\_RiverSamples\_C22022\_SW\_Tot\_Tab\_3\_17Compounds.mxd    Last Revised: 8/12/2022    Author: Kmanic

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



**Legend**

- Sample Location
- Cape Fear River
- Site Boundary

CFR-BLADEN 7.4 ← Location Name

**Notes:**

- \* - Multiple results are shown at CFR-TARHEEL for grab and composite samples.
- < - Analyte not detected above associated reporting limit.
- J - Analyte detected. Reported value may not be accurate or precise.
- U - Analyte not detected.

- All results are in nanograms per liter.
- Basemap sources: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

**Cape Fear River HFPO-DA Concentrations April 2022**

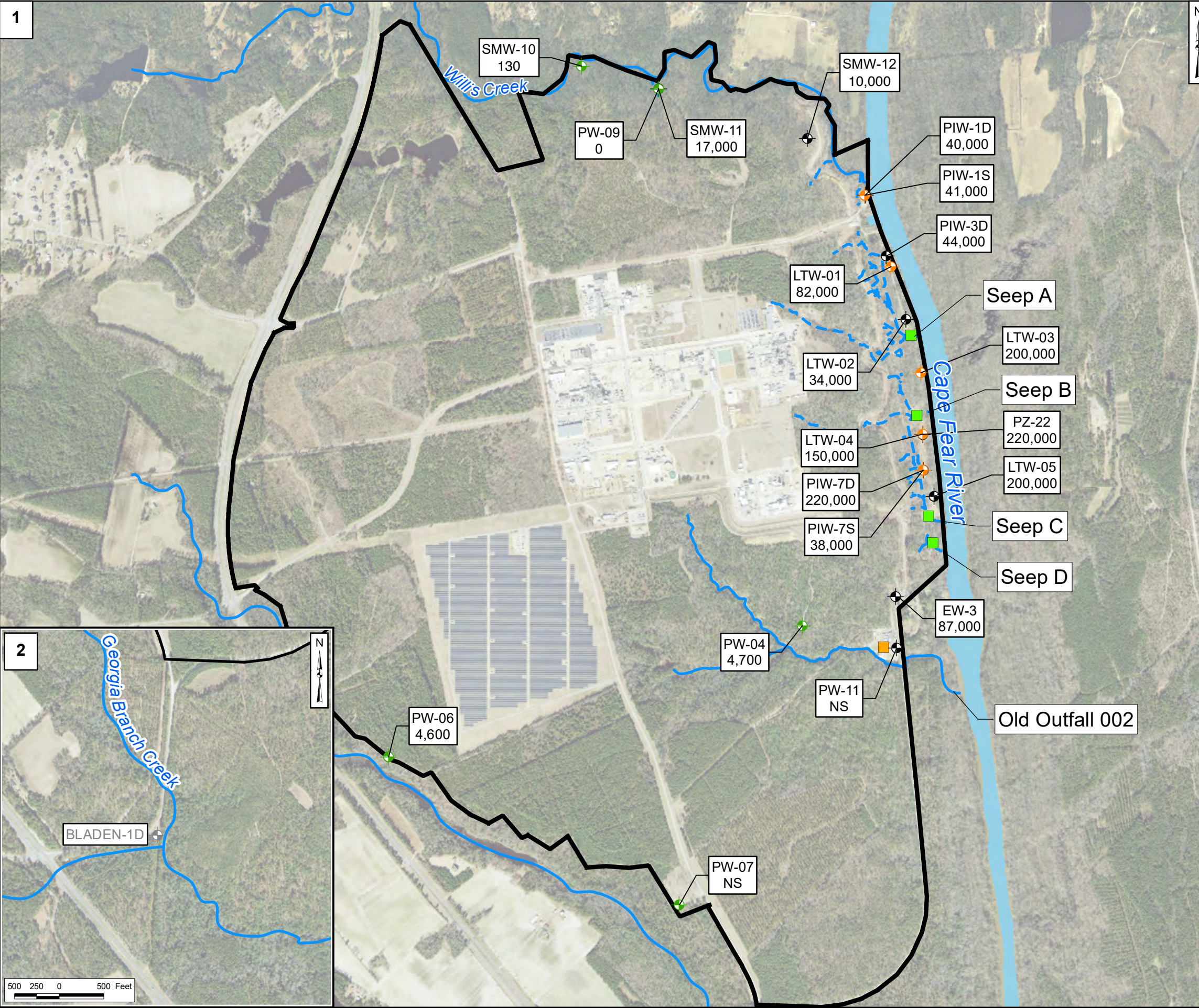
Chemours Fayetteville Works, North Carolina

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

Raleigh      September 2022

**Figure A3**

Path: P:\EPA\Bioscience\HFPO-DA\Baseline and GIS\GIS\Baseline\Monitor\Monitors\CFR256\_River\MapDocs\_CFR256\_Six\_HFPO-DA.mxd - Last Saved: 10/12/2022 - Author: J.Krause



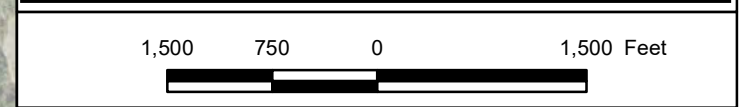
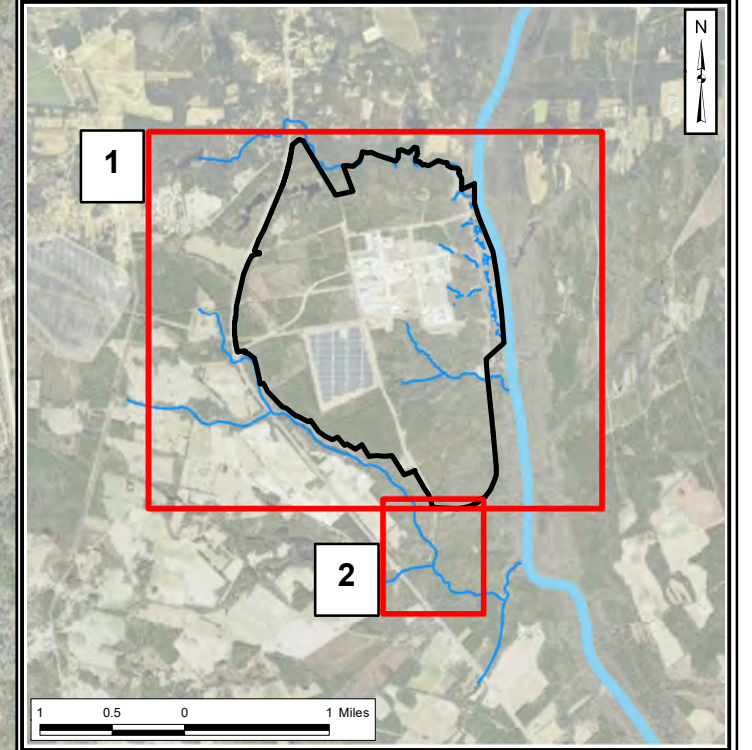
**Legend**

- Damaged
- Flow-Through Cell
- Old Outfall 002 Treatment System
- Observed Seep
- Nearby Tributary
- Site Boundary

PIW-1D 35,000 ← Location Name

**Notes:**

- NS - not sampled
- 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, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

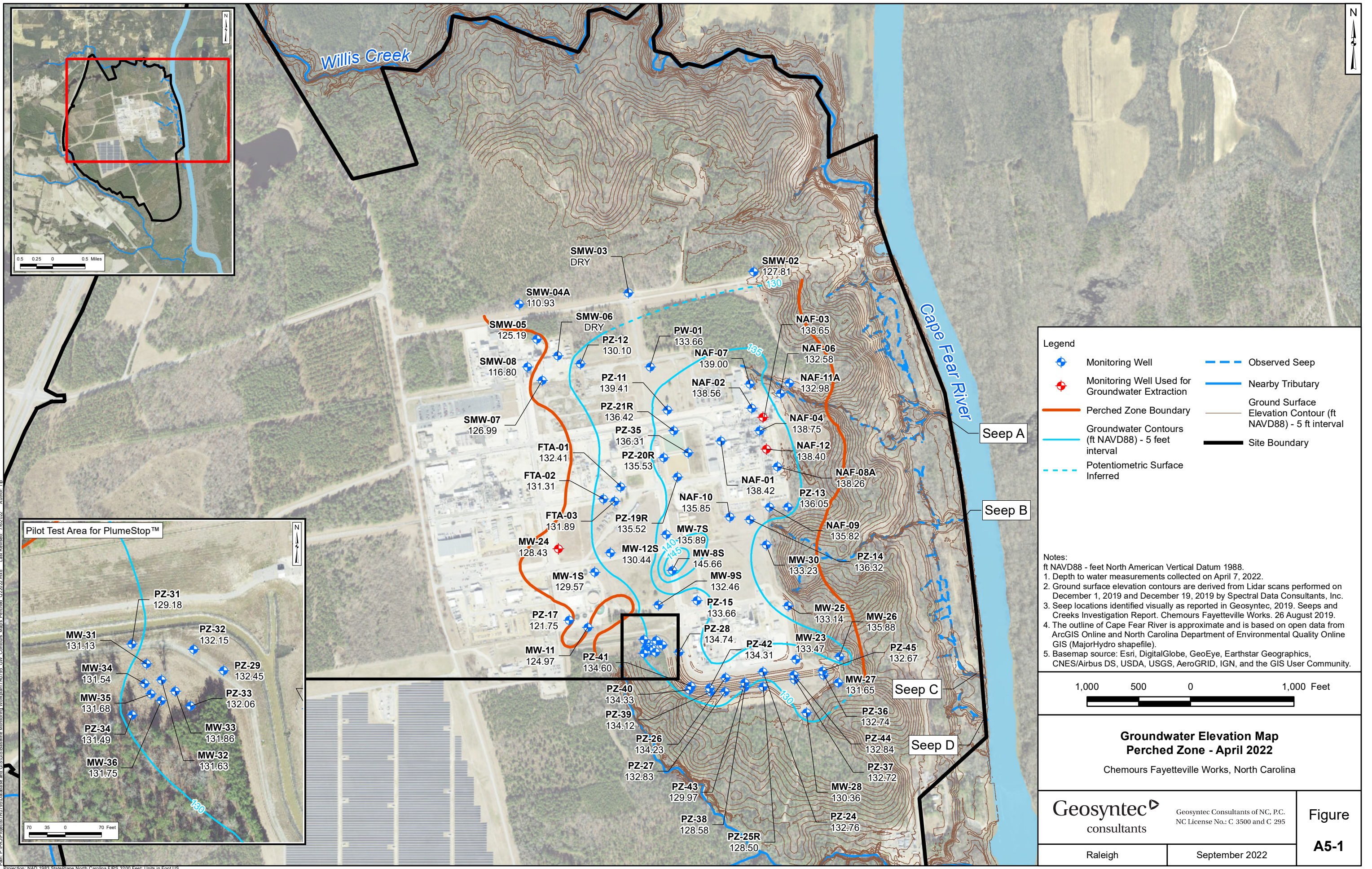


Chemours Fayetteville Works, North Carolina

	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295	<b>Figure</b>  <b>A4</b>
	Raleigh	

Path: P:\PDS\Projects\TR0725 Database and GIS\GIS Baseline Monitoring\Map\Map1\TR0725\_GW\_MW\_Tbl\_3\_C22022\_17Compounds.mxd  
 Last Revised: 8/17/2022  
 Author: KKaenic

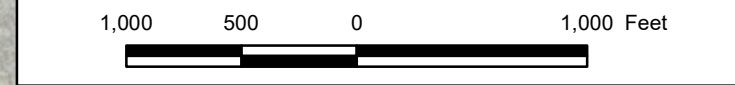
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet Units in Foot US



**Legend**

- ◆ Monitoring Well
- ◆ Monitoring Well Used for Groundwater Extraction
- Perched Zone Boundary
- Groundwater Contours (ft NAVD88) - 5 feet interval
- - - Potentiometric Surface Inferred
- - - Observed Seep
- Nearby Tributary
- Ground Surface Elevation Contour (ft NAVD88) - 5 ft interval
- Site Boundary

- Notes:**  
 ft NAVD88 - feet North American Vertical Datum 1988.  
 1. Depth to water measurements collected on April 7, 2022.  
 2. Ground surface elevation contours are derived from Lidar scans performed on December 1, 2019 and December 19, 2019 by Spectral Data Consultants, Inc.  
 3. Seep locations identified visually as reported in Geosyntec, 2019. Seeps and Creeks Investigation Report. Chemours Fayetteville Works. 26 August 2019.  
 4. 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).  
 5. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

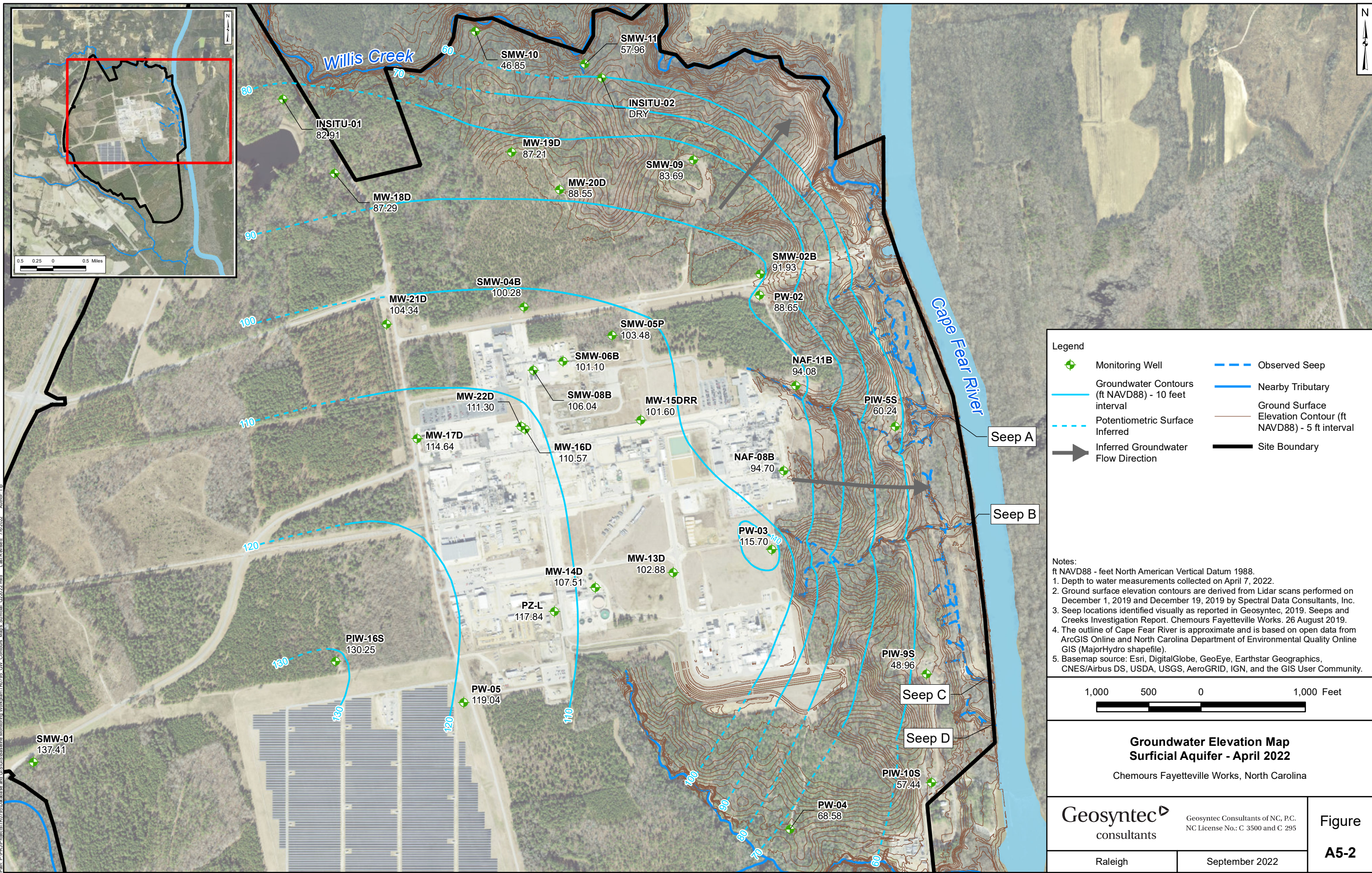


**Groundwater Elevation Map  
 Perched Zone - April 2022**  
 Chemours Fayetteville Works, North Carolina

	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295	<b>Figure          A5-1</b>
	Raleigh	

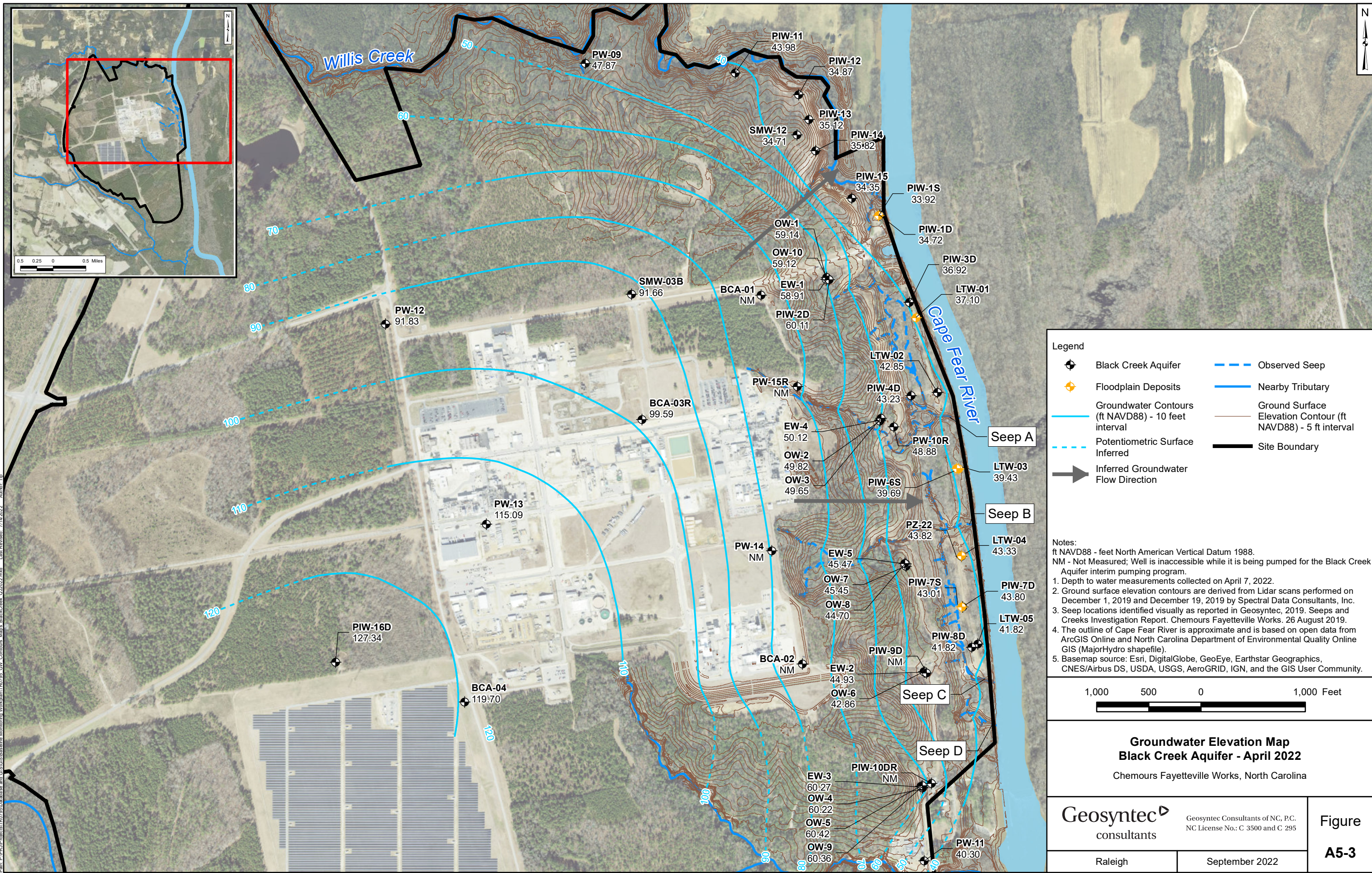
Path: P:\P\Projects\180725\Database and GIS\GIS\Baseline Monitor\Work\m180725\_GW\_Combus\_Map\_Patched\_Q2022.mxd - Last Revised: 7/16/2022 - Author: Tlp

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



Path: P:\P\UP\Projects\180725\Baseline Monitor\Work\km180725\_GW\_Combus\_Map\_Sunfall\_C20222.med - Last Revised: 7/6/2022 - Author: TJP  
 Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet, Units in Foot US



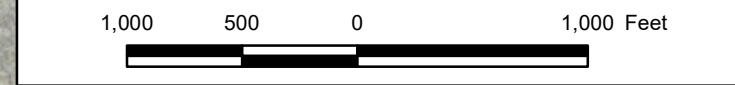


**Legend**

- Black Creek Aquifer
- Floodplain Deposits
- Observed Seep
- Nearby Tributary
- Groundwater Contours (ft NAVD88) - 10 feet interval
- Ground Surface Elevation Contour (ft NAVD88) - 5 ft interval
- Potentiometric Surface Inferred
- Site Boundary
- Inferred Groundwater Flow Direction

**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.

- Depth to water measurements collected on April 7, 2022.
- Ground surface elevation contours are derived from Lidar scans performed on December 1, 2019 and December 19, 2019 by Spectral Data Consultants, Inc.
- Seep locations identified visually as reported in Geosyntec, 2019. Seeps and Creeks Investigation Report. Chemours Fayetteville Works. 26 August 2019.
- 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).
- Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.



**Groundwater Elevation Map**  
**Black Creek Aquifer - April 2022**  
 Chemours Fayetteville Works, North Carolina

Path: P:\P\Projects\180725\Baseline Monitors\Work\km180725\_GW\_Combus\_Map\BlackCreek\_022022.mxd; Last Revised: 7/14/2022; Author: TP

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**  
**HISTORICAL SEEP A FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/01/20 0:00	221	0.49	3.9
04/01/20 0:30	225	0.50	3.9
04/01/20 1:00	216	0.48	3.8
04/01/20 1:30	227	0.51	3.8
04/01/20 2:00	199	0.44	3.8
04/01/20 2:30	209	0.47	3.8
04/01/20 3:00	200	0.45	3.8
04/01/20 3:30	213	0.48	3.8
04/01/20 4:00	228	0.51	3.8
04/01/20 4:30	249	0.56	3.8
04/01/20 5:00	194	0.43	3.8
04/01/20 5:30	209	0.47	3.8
04/01/20 6:00	163	0.36	3.8
04/01/20 6:30	197	0.44	3.8
04/01/20 7:00	167	0.37	3.8
04/01/20 7:30	196	0.44	3.8
04/01/20 8:00	185	0.41	3.8
04/01/20 8:30	213	0.48	3.8
04/01/20 9:00	180	0.40	3.8
04/01/20 9:30	194	0.43	3.8
04/01/20 10:00	165	0.37	3.8
04/01/20 10:30	181	0.40	3.8
04/01/20 11:00	178	0.40	3.8
04/01/20 11:30	182	0.41	3.8
04/01/20 12:00	193	0.43	3.8
04/01/20 12:30	191	0.43	3.8
04/01/20 13:00	199	0.44	3.8
04/01/20 13:30	197	0.44	3.8
04/01/20 14:00	190	0.42	3.7
04/01/20 14:30	178	0.40	3.8
04/01/20 15:00	198	0.44	3.8
04/01/20 15:30	202	0.45	3.7
04/01/20 16:00	190	0.42	3.7
04/01/20 16:30	187	0.42	3.8
04/01/20 17:00	190	0.42	3.8
04/01/20 17:30	205	0.46	3.7
04/01/20 18:00	169	0.38	3.7
04/01/20 18:30	193	0.43	3.7
04/01/20 19:00	163	0.36	3.7
04/01/20 19:30	187	0.42	3.7
04/01/20 20:00	147	0.33	3.7
04/01/20 20:30	163	0.36	3.7
04/01/20 21:00	159	0.35	3.7
04/01/20 21:30	181	0.40	3.7
04/01/20 22:00	167	0.37	3.7
04/01/20 22:30	174	0.39	3.7
04/01/20 23:00	165	0.37	3.7
04/01/20 23:30	173	0.38	3.7
04/02/20 0:00	178	0.40	3.7
04/02/20 0:30	182	0.41	3.7

**TABLE ATT1-1**  
**HISTORICAL SEEP A FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/02/20 1:00	172	0.38	3.7
04/02/20 1:30	172	0.38	3.7
04/02/20 2:00	178	0.40	3.7
04/02/20 2:30	178	0.40	3.7
04/02/20 3:00	183	0.41	3.7
04/06/20 21:00	132	0.29	2.1
04/06/20 21:30	134	0.30	2.2
04/06/20 22:00	136	0.30	2.2
04/06/20 22:30	130	0.29	2.1
04/06/20 23:00	126	0.28	2.2
04/06/20 23:30	127	0.28	2.1
04/07/20 0:00	124	0.28	2.2
04/07/20 0:30	136	0.30	2.1
04/07/20 1:00	129	0.29	2.1
04/07/20 1:30	141	0.31	2.1
04/07/20 2:00	132	0.29	2.1
04/07/20 2:30	141	0.31	2.1
04/07/20 3:00	139	0.31	2.1
04/07/20 3:30	124	0.28	2.1
04/07/20 4:00	125	0.28	2.1
04/07/20 4:30	116	0.26	2.1
04/07/20 5:00	119	0.26	2.1
04/07/20 5:30	113	0.25	2.1
04/07/20 6:00	115	0.26	2.1
04/07/20 6:30	109	0.24	2.1
04/07/20 7:00	110	0.24	2.1
04/07/20 7:30	116	0.26	2.1
04/07/20 8:00	119	0.27	2.1
04/07/20 8:30	126	0.28	2.1
04/07/20 9:00	130	0.29	2.1
04/07/20 9:30	131	0.29	2.1
04/07/20 10:00	120	0.27	2.1
04/07/20 10:30	143	0.32	2.1
04/07/20 11:00	133	0.30	2.1
04/07/20 11:30	161	0.36	2.1
04/07/20 12:00	142	0.32	2.1
04/07/20 12:30	167	0.37	2.1
04/07/20 13:00	143	0.32	2.1
04/07/20 13:30	161	0.36	2.1
04/07/20 14:00	137	0.31	2.1
04/07/20 14:30	156	0.35	2.1
04/07/20 15:00	148	0.33	2.1
04/07/20 15:30	138	0.31	2.1
04/07/20 16:00	119	0.26	2.1
04/07/20 16:30	144	0.32	2.1
04/07/20 17:00	138	0.31	2.1
04/07/20 17:30	140	0.31	2.1
04/07/20 18:00	130	0.29	2.1
04/07/20 18:30	126	0.28	2.1
04/07/20 19:00	129	0.29	2.1

**TABLE ATT1-1**  
**HISTORICAL SEEP A FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/07/20 19:30	122	0.27	2.1
04/07/20 20:00	121	0.27	2.1
04/07/20 20:30	109	0.24	2.1
04/08/20 21:30	204	0.45	2.1
04/08/20 22:00	250	0.56	2.1
04/08/20 22:30	258	0.58	2.1
04/08/20 23:00	202	0.45	2.1
04/08/20 23:30	253	0.56	2.1
04/09/20 0:00	224	0.50	2.1
04/09/20 0:30	204	0.46	2.2
04/09/20 1:00	188	0.42	2.1
04/09/20 1:30	193	0.43	2.1
04/09/20 2:00	179	0.40	2.2
04/09/20 2:30	199	0.44	2.1
04/09/20 3:00	166	0.37	2.1
04/09/20 3:30	189	0.42	2.2
04/09/20 4:00	170	0.38	2.2
04/09/20 4:30	190	0.42	2.2
04/09/20 5:00	208	0.46	2.2
04/09/20 5:30	106	0.24	2.2
04/09/20 6:00	107	0.24	2.2
04/09/20 6:30	102	0.23	2.2
04/09/20 7:00	99	0.22	2.2
04/09/20 7:30	180	0.40	2.2
04/09/20 8:00	220	0.49	2.2
04/09/20 8:30	159	0.35	2.2
04/09/20 9:00	161	0.36	2.2
04/09/20 9:30	173	0.38	2.2
04/09/20 10:00	155	0.34	2.2
04/09/20 10:30	205	0.46	2.2
04/09/20 11:00	190	0.42	2.2
04/09/20 11:30	214	0.48	2.2
04/09/20 12:00	188	0.42	2.2
04/09/20 12:30	181	0.40	2.2
04/09/20 13:00	160	0.36	2.2
04/09/20 13:30	173	0.38	2.2
04/09/20 14:00	149	0.33	2.2
04/09/20 14:30	194	0.43	2.2
04/09/20 15:00	179	0.40	2.2
04/09/20 15:30	172	0.38	2.3
04/09/20 16:00	154	0.34	2.2
04/09/20 16:30	139	0.31	2.2
04/09/20 17:00	132	0.29	2.2
04/09/20 17:30	130	0.29	2.2
04/09/20 18:00	133	0.30	2.2
04/09/20 18:30	130	0.29	2.2
04/09/20 19:00	141	0.31	2.2
04/09/20 19:30	100	0.22	2.2
04/09/20 20:00	109	0.24	2.2
04/09/20 20:30	87	0.19	2.2

**TABLE ATT1-1**  
**HISTORICAL SEEP A FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/09/20 21:00	100	0.22	2.2
04/09/20 21:30	101	0.22	2.2
04/09/20 22:00	117	0.26	2.2
04/09/20 22:30	98	0.22	2.2
04/09/20 23:00	115	0.26	2.2
04/09/20 23:30	80	0.18	2.2
04/10/20 0:00	90	0.20	2.2
04/10/20 0:30	94	0.21	2.2
04/10/20 1:00	112	0.25	2.2
04/10/20 1:30	95	0.21	2.2
04/10/20 2:00	107	0.24	2.2
04/10/20 2:30	95	0.21	2.3
04/10/20 3:00	99	0.22	2.3
04/10/20 3:30	98	0.22	2.3
04/10/20 4:00	112	0.25	2.3
04/10/20 4:30	104	0.23	2.2
04/10/20 5:00	114	0.25	2.3
04/10/20 5:30	100	0.22	2.2
04/10/20 6:00	113	0.25	2.2
04/10/20 6:30	86	0.19	2.2
04/10/20 7:00	103	0.23	2.3
04/10/20 7:30	74	0.16	2.3
04/10/20 8:00	93	0.21	2.3
04/10/20 8:30	78	0.17	2.3
04/13/20 7:30	217	0.48	2.1
04/13/20 8:00	357	0.80	2.1
04/13/20 8:30	208	0.46	2.1
04/13/20 9:00	162	0.36	2.1
04/13/20 9:30	179	0.40	2.1
04/13/20 10:00	173	0.38	2.2
04/13/20 10:30	193	0.43	2.2
04/13/20 11:00	207	0.46	2.2
04/13/20 11:30	163	0.36	2.2
04/13/20 12:00	158	0.35	2.2
04/13/20 12:30	175	0.39	2.2
04/13/20 13:00	187	0.42	2.3
04/13/20 13:30	160	0.36	2.3
04/13/20 14:00	153	0.34	2.3
04/13/20 14:30	152	0.34	2.3
04/13/20 15:00	160	0.36	2.3
04/13/20 15:30	152	0.34	2.3
04/13/20 16:00	168	0.37	2.3
04/13/20 16:30	112	0.25	2.4
04/13/20 17:00	124	0.28	2.4
04/13/20 17:30	101	0.23	2.4
04/13/20 18:00	129	0.29	2.4
04/13/20 18:30	107	0.24	2.4
04/13/20 19:00	121	0.27	2.4
04/13/20 19:30	92	0.20	2.4
04/13/20 20:00	108	0.24	2.4

**TABLE ATT1-1**  
**HISTORICAL SEEP A FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/13/20 20:30	87	0.19	2.4
04/13/20 21:00	103	0.23	2.4
04/13/20 21:30	102	0.23	2.4
04/13/20 22:00	112	0.25	2.4
04/13/20 22:30	114	0.25	2.4
04/13/20 23:00	119	0.26	2.4
04/13/20 23:30	111	0.25	2.4
04/14/20 0:00	115	0.26	2.4
04/14/20 0:30	106	0.24	2.4
04/14/20 1:00	109	0.24	2.4
04/14/20 1:30	121	0.27	2.4
04/14/20 2:00	134	0.30	2.4
04/14/20 2:30	118	0.26	2.4
04/14/20 3:00	120	0.27	2.4
04/14/20 3:30	96	0.21	2.4
04/14/20 4:00	105	0.23	2.4
04/14/20 4:30	95	0.21	2.4
04/14/20 5:00	110	0.25	2.4
04/14/20 5:30	87	0.19	2.4
04/14/20 6:00	91	0.20	2.4
04/14/20 6:30	98	0.22	2.4
04/14/20 7:00	107	0.24	2.4
04/14/20 7:30	125	0.28	2.5
04/14/20 8:00	121	0.27	2.5
04/14/20 8:30	129	0.29	2.5
04/18/20 11:30	164	0.36	3.7
04/18/20 12:00	179	0.40	3.6
04/18/20 12:30	154	0.34	3.6
04/18/20 13:00	145	0.32	3.6
04/18/20 13:30	142	0.32	3.6
04/18/20 14:00	142	0.32	3.6
04/18/20 14:30	163	0.36	3.6
04/18/20 15:00	167	0.37	3.6
04/18/20 15:30	154	0.34	3.6
04/18/20 17:00	136	0.30	3.6
04/18/20 17:30	119	0.27	3.6
04/18/20 18:00	134	0.30	3.5
04/18/20 18:30	126	0.28	3.5
04/18/20 19:00	147	0.33	3.5
04/18/20 19:30	121	0.27	3.5
04/18/20 20:00	137	0.31	3.5
04/18/20 20:30	117	0.26	3.5
04/18/20 21:00	128	0.29	3.5
04/18/20 21:30	127	0.28	3.4
04/18/20 22:00	139	0.31	3.4
04/18/20 22:30	141	0.31	3.4
04/18/20 23:00	150	0.33	3.4
04/18/20 23:30	133	0.30	3.4
04/19/20 0:00	129	0.29	3.4
04/19/20 0:30	140	0.31	3.4

**TABLE ATT1-1**  
**HISTORICAL SEEP A FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/19/20 1:00	143	0.32	3.4
04/19/20 1:30	143	0.32	3.3
04/19/20 2:00	149	0.33	3.3
04/19/20 2:30	147	0.33	3.3
04/19/20 3:00	147	0.33	3.3
04/19/20 3:30	144	0.32	3.3
04/19/20 4:00	140	0.31	3.3
04/19/20 4:30	164	0.36	3.3
04/19/20 5:00	172	0.38	3.3
04/19/20 5:30	150	0.33	3.3
04/19/20 6:00	134	0.30	3.3
04/19/20 6:30	153	0.34	3.3
04/19/20 7:00	150	0.33	3.2
04/19/20 7:30	168	0.38	3.2
04/19/20 8:00	154	0.34	3.2
04/19/20 8:30	188	0.42	3.2
04/19/20 9:00	180	0.40	3.2
04/19/20 9:30	158	0.35	3.2
04/19/20 10:00	134	0.30	3.2
04/19/20 10:30	176	0.39	3.2
04/19/20 11:00	180	0.40	3.2
04/20/20 2:00	176	0.39	2.8
04/20/20 2:30	201	0.45	2.8
04/20/20 3:00	170	0.38	2.8
04/20/20 3:30	185	0.41	2.8
04/20/20 4:00	161	0.36	2.8
04/20/20 4:30	244	0.54	2.8
04/20/20 5:00	225	0.50	2.8
04/20/20 5:30	258	0.58	2.8
04/20/20 6:00	231	0.51	2.8
04/20/20 6:30	231	0.52	2.8
04/20/20 7:00	221	0.49	2.7
04/20/20 7:30	235	0.52	2.7
04/20/20 8:00	211	0.47	2.7
04/20/20 8:30	213	0.47	2.7
04/20/20 9:00	232	0.52	2.7
04/20/20 9:30	172	0.38	2.7
04/20/20 10:00	220	0.49	2.7
04/20/20 10:30	179	0.40	2.7
04/20/20 11:00	188	0.42	2.7
04/20/20 11:30	337	0.75	2.7
04/20/20 12:00	384	0.86	2.7
04/20/20 12:30	625	1.39	2.7
04/20/20 13:00	463	1.03	2.7
04/20/20 13:30	347	0.77	2.7
04/20/20 14:00	370	0.82	2.7
04/20/20 14:30	300	0.67	2.7
04/20/20 15:00	326	0.73	2.7
04/20/20 15:30	234	0.52	2.7
04/20/20 17:00	203	0.45	2.7



**TABLE ATT1-1**  
**HISTORICAL SEEP A FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/20/20 17:30	162	0.36	2.7
04/20/20 18:00	172	0.38	2.7
04/20/20 18:30	158	0.35	2.7
04/20/20 19:00	177	0.39	2.7
04/20/20 19:30	151	0.34	2.7
04/20/20 20:00	163	0.36	2.7
04/20/20 20:30	136	0.30	2.7
04/20/20 21:00	142	0.32	2.7
04/20/20 21:30	160	0.36	2.7
04/20/20 22:00	172	0.38	2.7
04/20/20 22:30	181	0.40	2.7
04/20/20 23:00	175	0.39	2.7
04/20/20 23:30	176	0.39	2.7
04/21/20 0:00	171	0.38	2.7
04/21/20 0:30	162	0.36	2.7
04/21/20 1:00	153	0.34	2.7
04/21/20 1:30	185	0.41	2.7
04/21/20 2:00	190	0.42	2.7
04/21/20 2:30	166	0.37	2.7
04/21/20 3:00	157	0.35	2.7
04/21/20 3:30	157	0.35	2.7
04/21/20 4:00	162	0.36	2.7
04/21/20 4:30	154	0.34	2.7
04/21/20 5:00	155	0.35	2.7
04/21/20 5:30	151	0.34	2.7
04/21/20 6:00	151	0.34	2.7
04/21/20 6:30	154	0.34	2.7
04/21/20 7:00	157	0.35	2.7
04/21/20 7:30	165	0.37	2.7
04/21/20 8:00	163	0.36	2.7
04/21/20 8:30	180	0.40	2.7
04/21/20 9:00	172	0.38	2.7
04/21/20 9:30	185	0.41	2.7
04/21/20 10:00	175	0.39	2.7
04/21/20 10:30	189	0.42	2.7
04/21/20 11:00	163	0.36	2.7
04/21/20 11:30	220	0.49	2.7
04/21/20 12:00	197	0.44	2.8
04/23/20 11:30	143	0.32	3.1
04/23/20 12:00	154	0.34	3.1
04/23/20 12:30	128	0.29	3.1
04/23/20 13:00	157	0.35	3.1
04/23/20 13:30	79	0.18	3.1
04/23/20 14:00	162	0.36	3.1
04/23/20 14:30	137	0.31	3.1
04/23/20 15:00	160	0.36	3.1
04/23/20 15:30	105	0.23	3.1
04/23/20 17:00	156	0.35	3.1
04/23/20 17:30	161	0.36	3.1
04/23/20 18:00	157	0.35	3.1

**TABLE ATT1-1**  
**HISTORICAL SEEP A FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/23/20 18:30	131	0.29	3.1
04/23/20 19:00	157	0.35	3.1
04/23/20 19:30	109	0.24	3.1
04/23/20 20:00	157	0.35	3.1
04/23/20 20:30	195	0.43	3.1
04/23/20 21:00	160	0.36	3.1
04/23/20 21:30	203	0.45	3.1
04/23/20 22:00	176	0.39	3.0
04/23/20 22:30	170	0.38	3.1
04/23/20 23:00	201	0.45	3.0
04/23/20 23:30	185	0.41	3.0
04/24/20 0:00	218	0.49	3.0
04/24/20 0:30	169	0.38	3.0
04/24/20 1:00	214	0.48	3.0
04/24/20 1:30	194	0.43	3.0
04/24/20 2:00	204	0.45	3.0
04/24/20 2:30	197	0.44	3.0
04/24/20 3:00	197	0.44	3.0
04/24/20 3:30	202	0.45	3.0
04/24/20 4:00	191	0.43	3.0
04/24/20 4:30	184	0.41	3.0
04/24/20 5:00	187	0.42	3.0
04/24/20 5:30	184	0.41	3.0
04/24/20 6:00	183	0.41	3.0
04/24/20 6:30	165	0.37	3.0
04/24/20 7:00	181	0.40	3.0
04/24/20 7:30	182	0.41	3.0
04/24/20 8:00	176	0.39	3.0
04/24/20 8:30	175	0.39	3.0
04/24/20 9:00	178	0.40	2.9
04/24/20 9:30	177	0.39	2.9
04/24/20 10:00	171	0.38	2.9
04/24/20 10:30	166	0.37	2.9
04/24/20 11:00	174	0.39	2.9
04/24/20 11:30	174	0.39	2.9
04/24/20 12:00	173	0.39	2.9
04/24/20 12:30	160	0.36	2.9
04/24/20 13:00	169	0.38	2.9
04/24/20 13:30	168	0.37	2.9
04/24/20 14:15	125	0.28	2.9
04/24/20 14:45	110	0.24	2.9
04/24/20 15:15	121	0.27	2.9
04/24/20 15:45	114	0.25	2.9
04/24/20 16:45	125	0.28	2.9
04/24/20 17:15	124	0.28	2.9
04/24/20 17:45	126	0.28	2.8
04/24/20 18:15	132	0.29	2.8
04/24/20 18:45	144	0.32	2.8
04/24/20 19:15	131	0.29	2.8
04/24/20 19:45	149	0.33	2.8

TABLE ATT1-1

Geosyntec Consultants of NC, P.C.

**HISTORICAL SEEP A FLUME DATA - Q2 2020 WET WEATHER EVENTS**

**Chemours Fayetteville Works, North Carolina**

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/24/20 20:15	130	0.29	2.8
04/24/20 20:45	154	0.34	2.8
04/24/20 21:15	133	0.30	2.8
04/24/20 21:45	156	0.35	2.8
04/24/20 22:15	129	0.29	2.8
04/24/20 22:45	137	0.31	2.8
04/24/20 23:15	134	0.30	2.8
04/24/20 23:45	147	0.33	2.8
04/25/20 0:15	125	0.28	2.8
04/30/20 5:15	146	0.33	2.7
04/30/20 5:45	142	0.32	2.7
04/30/20 6:15	724	1.61	2.7
04/30/20 6:45	1137	2.53	2.7
04/30/20 7:15	1048	2.34	2.7
04/30/20 7:45	1302	2.90	2.7
04/30/20 8:15	1067	2.38	2.7
04/30/20 8:45	1164	2.59	2.6
04/30/20 9:15	1218	2.71	2.7
04/30/20 9:45	1235	2.75	2.7
04/30/20 10:15	1051	2.34	2.7
04/30/20 10:45	918	2.05	2.7
04/30/20 11:15	1002	2.23	2.7
04/30/20 11:45	886	1.97	2.8
04/30/20 12:15	852	1.90	2.8
04/30/20 12:45	760	1.69	2.8
04/30/20 13:15	658	1.47	2.8
04/30/20 13:45	590	1.31	2.8
04/30/20 14:15	495	1.10	2.8
04/30/20 14:45	532	1.19	2.9
04/30/20 15:15	438	0.98	2.9
04/30/20 15:45	359	0.80	2.9
04/30/20 16:45	309	0.69	3.0
04/30/20 17:15	309	0.69	3.0
04/30/20 17:45	298	0.66	3.0
04/30/20 18:15	288	0.64	3.1
04/30/20 18:45	264	0.59	3.1
04/30/20 19:15	274	0.61	3.1
04/30/20 19:45	285	0.64	3.1
04/30/20 20:15	253	0.56	3.2
04/30/20 20:45	258	0.58	3.2
04/30/20 21:15	246	0.55	3.2
04/30/20 21:45	271	0.60	3.2
04/30/20 22:15	234	0.52	3.3
04/30/20 22:45	237	0.53	3.3
04/30/20 23:15	215	0.48	3.3
04/30/20 23:45	216	0.48	3.3
05/01/20 0:15	221	0.49	3.3
05/01/20 0:45	235	0.52	3.4
05/01/20 1:15	211	0.47	3.4
05/01/20 1:45	211	0.47	3.4

**TABLE ATT1-1**  
**HISTORICAL SEEP A FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
05/01/20 2:15	204	0.45	3.4
05/01/20 2:45	196	0.44	3.4
05/01/20 3:15	206	0.46	3.5
05/01/20 3:45	214	0.48	3.5
05/01/20 4:15	200	0.44	3.5
05/01/20 4:45	202	0.45	3.5
05/01/20 5:15	206	0.46	3.5
05/01/20 5:45	232	0.52	3.6
05/01/20 6:15	203	0.45	3.6
05/01/20 6:45	224	0.50	3.6
05/01/20 7:15	196	0.44	3.6
05/01/20 7:45	224	0.50	3.7
05/01/20 8:15	195	0.43	3.7
05/01/20 8:45	203	0.45	3.7
05/01/20 9:15	190	0.42	3.7
05/01/20 9:45	194	0.43	3.8
05/01/20 10:15	192	0.43	3.8
05/01/20 10:45	200	0.45	3.8
05/01/20 11:15	187	0.42	3.9
05/06/20 12:45	209	0.47	4.5
05/06/20 13:15	208	0.46	4.5
05/06/20 13:45	205	0.46	4.5
05/06/20 14:15	213	0.47	4.5
05/06/20 14:45	227	0.51	4.5
05/06/20 15:15	232	0.52	4.5
05/06/20 15:45	218	0.49	4.5
05/06/20 16:45	222	0.49	4.5
05/06/20 17:15	206	0.46	4.5
05/06/20 17:45	212	0.47	4.5
05/06/20 18:15	216	0.48	4.5
05/06/20 18:45	218	0.49	4.5
05/06/20 19:15	338	0.75	4.5
05/06/20 19:45	200	0.45	4.5
05/06/20 20:15	199	0.44	4.5
05/06/20 20:45	204	0.45	4.5
05/06/20 21:15	260	0.58	4.5
05/06/20 21:45	205	0.46	4.5
05/06/20 22:15	237	0.53	4.5
05/06/20 22:45	190	0.42	4.5
05/06/20 23:15	193	0.43	4.5
05/06/20 23:45	194	0.43	4.5
05/07/20 0:15	201	0.45	4.5
05/07/20 0:45	189	0.42	4.4
05/07/20 1:15	206	0.46	4.4
05/07/20 1:45	183	0.41	4.5
05/07/20 2:15	176	0.39	4.4
05/07/20 2:45	185	0.41	4.4
05/07/20 3:15	182	0.41	4.4
05/07/20 3:45	187	0.42	4.4
05/07/20 4:15	190	0.42	4.4

**TABLE ATT1-1**  
**HISTORICAL SEEP A FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
05/07/20 4:45	190	0.42	4.4
05/07/20 5:15	201	0.45	4.4
05/07/20 5:45	191	0.43	4.4
05/07/20 6:15	210	0.47	4.4
05/07/20 6:45	190	0.42	4.4
05/07/20 7:15	220	0.49	4.4
05/07/20 7:45	183	0.41	4.4
05/07/20 8:15	188	0.42	4.3
05/07/20 8:45	189	0.42	4.3
05/07/20 9:15	210	0.47	4.3
05/07/20 9:45	190	0.42	4.3
05/07/20 10:15	197	0.44	4.3
05/07/20 10:45	187	0.42	4.3
05/07/20 11:15	191	0.43	4.2
05/07/20 11:45	183	0.41	4.2
05/07/20 12:15	171	0.38	4.2
05/07/20 12:45	179	0.40	4.2
05/07/20 13:15	162	0.36	4.1
05/07/20 13:45	176	0.39	4.1
05/07/20 14:15	165	0.37	4.1
05/07/20 14:45	171	0.38	4.1
05/07/20 15:15	161	0.36	4.1
05/07/20 15:45	170	0.38	4.1
05/07/20 16:45	174	0.39	4.0
05/07/20 17:15	177	0.40	4.0
05/07/20 17:45	178	0.40	4.0
05/07/20 18:15	184	0.41	4.0
05/07/20 18:45	173	0.39	3.9
05/07/20 19:15	190	0.42	3.9
05/07/20 19:45	180	0.40	3.9
05/07/20 20:15	203	0.45	3.9
05/07/20 20:45	176	0.39	3.9
05/18/20 21:00	219	0.49	1.5
05/18/20 21:30	224	0.50	1.5
05/18/20 22:00	232	0.52	1.5
05/18/20 22:30	254	0.57	1.5
05/18/20 23:00	220	0.49	1.5
05/18/20 23:30	220	0.49	1.5
<b>Median Flow Rate</b>	172.0	0.4	

**Notes**

Measurements are recorded from the flume at Seep A.

ft<sup>3</sup>/sec - cubic feet per second

ft - feet

gpm - gallons per minute

TABLE ATT1-2

Geosyntec Consultants of NC, P.C.

**HISTORICAL SEEP B FLUME DATA - Q2 2020 WET WEATHER EVENTS**

**Chemours Fayetteville Works, North Carolina**

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/01/20 0:00	106	0.24	3.9
04/01/20 0:30	91	0.20	3.9
04/01/20 1:00	107	0.24	3.8
04/01/20 1:30	84	0.19	3.8
04/01/20 2:00	89	0.20	3.8
04/01/20 2:30	89	0.20	3.8
04/01/20 3:00	96	0.21	3.8
04/01/20 3:30	98	0.22	3.8
04/01/20 4:00	112	0.25	3.8
04/01/20 4:30	76	0.17	3.8
04/01/20 5:00	88	0.20	3.8
04/01/20 5:30	61	0.14	3.8
04/01/20 6:00	75	0.17	3.8
04/01/20 6:30	67	0.15	3.8
04/01/20 7:00	75	0.17	3.8
04/01/20 7:30	72	0.16	3.8
04/01/20 8:00	90	0.20	3.8
04/01/20 8:30	71	0.16	3.8
04/01/20 9:00	84	0.19	3.8
04/01/20 9:30	65	0.14	3.8
04/01/20 10:00	76	0.17	3.8
04/01/20 10:30	75	0.17	3.8
04/01/20 11:00	81	0.18	3.8
04/01/20 11:30	89	0.20	3.8
04/01/20 12:00	91	0.20	3.8
04/01/20 12:30	98	0.22	3.8
04/01/20 13:00	96	0.21	3.8
04/01/20 13:30	95	0.21	3.8
04/01/20 14:00	92	0.21	3.7
04/01/20 14:30	100	0.22	3.8
04/01/20 15:00	101	0.23	3.8
04/01/20 15:30	93	0.21	3.7
04/01/20 16:00	93	0.21	3.7
04/01/20 16:30	87	0.19	3.8
04/01/20 17:00	95	0.21	3.8
04/01/20 17:30	76	0.17	3.7
04/01/20 18:00	85	0.19	3.7
04/01/20 18:30	64	0.14	3.7
04/01/20 19:00	82	0.18	3.7
04/01/20 19:30	60	0.13	3.7
04/01/20 20:00	69	0.15	3.7
04/01/20 20:30	66	0.15	3.7
04/01/20 21:00	78	0.17	3.7
04/01/20 21:30	74	0.16	3.7
04/01/20 22:00	78	0.17	3.7
04/01/20 22:30	75	0.17	3.7
04/01/20 23:00	77	0.17	3.7
04/01/20 23:30	80	0.18	3.7
04/02/20 0:00	86	0.19	3.7
04/02/20 0:30	78	0.17	3.7

**TABLE ATT1-2**  
**HISTORICAL SEEP B FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/02/20 1:00	84	0.19	3.7
04/02/20 1:30	85	0.19	3.7
04/02/20 2:00	87	0.19	3.7
04/02/20 2:30	88	0.20	3.7
04/02/20 3:00	89	0.20	3.7
04/06/20 21:00	94	0.21	2.1
04/06/20 21:30	96	0.21	2.2
04/06/20 22:00	99	0.22	2.2
04/06/20 22:30	105	0.23	2.1
04/06/20 23:00	104	0.23	2.2
04/06/20 23:30	102	0.23	2.1
04/07/20 0:00	97	0.22	2.2
04/07/20 0:30	108	0.24	2.1
04/07/20 1:00	102	0.23	2.1
04/07/20 1:30	110	0.24	2.1
04/07/20 2:00	102	0.23	2.1
04/07/20 2:30	108	0.24	2.1
04/07/20 3:00	105	0.23	2.1
04/07/20 3:30	94	0.21	2.1
04/07/20 4:00	94	0.21	2.1
04/07/20 4:30	85	0.19	2.1
04/07/20 5:00	86	0.19	2.1
04/07/20 5:30	81	0.18	2.1
04/07/20 6:00	87	0.19	2.1
04/07/20 6:30	77	0.17	2.1
04/07/20 7:00	81	0.18	2.1
04/07/20 7:30	86	0.19	2.1
04/07/20 8:00	87	0.19	2.1
04/07/20 8:30	96	0.21	2.1
04/07/20 9:00	94	0.21	2.1
04/07/20 9:30	101	0.23	2.1
04/07/20 10:00	95	0.21	2.1
04/07/20 10:30	116	0.26	2.1
04/07/20 11:00	108	0.24	2.1
04/07/20 11:30	135	0.30	2.1
04/07/20 12:00	118	0.26	2.1
04/07/20 12:30	142	0.32	2.1
04/07/20 13:00	121	0.27	2.1
04/07/20 14:00	128	0.28	2.1
04/07/20 14:30	150	0.33	2.1
04/07/20 15:00	137	0.31	2.1
04/07/20 15:30	126	0.28	2.1
04/07/20 16:00	108	0.24	2.1
04/07/20 16:30	130	0.29	2.1
04/07/20 17:00	126	0.28	2.1
04/07/20 17:30	127	0.28	2.1
04/07/20 18:00	118	0.26	2.1
04/07/20 18:30	117	0.26	2.1
04/07/20 19:00	118	0.26	2.1
04/07/20 19:30	112	0.25	2.1

TABLE ATT1-2

Geosyntec Consultants of NC, P.C.

**HISTORICAL SEEP B FLUME DATA - Q2 2020 WET WEATHER EVENTS**

**Chemours Fayetteville Works, North Carolina**

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/07/20 20:00	112	0.25	2.1
04/07/20 20:30	102	0.23	2.1
04/08/20 21:30	178	0.40	2.1
04/08/20 22:00	155	0.35	2.1
04/08/20 22:30	159	0.35	2.1
04/08/20 23:00	174	0.39	2.1
04/08/20 23:30	240	0.54	2.1
04/09/20 0:00	210	0.47	2.1
04/09/20 0:30	180	0.40	2.2
04/09/20 1:00	163	0.36	2.1
04/09/20 1:30	155	0.35	2.1
04/09/20 2:00	142	0.32	2.2
04/09/20 2:30	158	0.35	2.1
04/09/20 3:00	132	0.29	2.1
04/09/20 3:30	154	0.34	2.2
04/09/20 4:00	138	0.31	2.2
04/09/20 4:30	155	0.35	2.2
04/09/20 5:00	170	0.38	2.2
04/09/20 5:30	84	0.19	2.2
04/09/20 6:00	85	0.19	2.2
04/09/20 6:30	82	0.18	2.2
04/09/20 7:00	79	0.17	2.2
04/09/20 7:30	152	0.34	2.2
04/09/20 8:00	192	0.43	2.2
04/09/20 8:30	121	0.27	2.2
04/09/20 9:00	106	0.24	2.2
04/09/20 9:30	128	0.29	2.2
04/09/20 10:00	127	0.28	2.2
04/09/20 10:30	181	0.40	2.2
04/09/20 11:00	167	0.37	2.2
04/09/20 11:30	190	0.42	2.2
04/09/20 12:00	162	0.36	2.2
04/09/20 12:30	154	0.34	2.2
04/09/20 13:00	136	0.30	2.2
04/09/20 13:30	144	0.32	2.2
04/09/20 14:00	123	0.27	2.2
04/09/20 14:30	158	0.35	2.2
04/09/20 15:00	147	0.33	2.2
04/09/20 15:30	144	0.32	2.3
04/09/20 16:00	131	0.29	2.2
04/09/20 16:30	115	0.26	2.2
04/09/20 17:00	111	0.25	2.2
04/09/20 17:30	112	0.25	2.2
04/09/20 18:00	113	0.25	2.2
04/09/20 18:30	112	0.25	2.2
04/09/20 19:00	121	0.27	2.2
04/09/20 19:30	86	0.19	2.2
04/09/20 20:00	95	0.21	2.2
04/09/20 20:30	74	0.17	2.2
04/09/20 21:00	87	0.19	2.2



TABLE ATT1-2

Geosyntec Consultants of NC, P.C.

**HISTORICAL SEEP B FLUME DATA - Q2 2020 WET WEATHER EVENTS**

**Chemours Fayetteville Works, North Carolina**

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/09/20 21:30	88	0.20	2.2
04/09/20 22:00	104	0.23	2.2
04/09/20 22:30	87	0.19	2.2
04/09/20 23:00	100	0.22	2.2
04/09/20 23:30	70	0.16	2.2
04/10/20 0:00	81	0.18	2.2
04/10/20 0:30	86	0.19	2.2
04/10/20 1:00	101	0.22	2.2
04/10/20 1:30	85	0.19	2.2
04/10/20 2:00	96	0.21	2.2
04/10/20 2:30	86	0.19	2.3
04/10/20 3:00	88	0.20	2.3
04/10/20 3:30	87	0.19	2.3
04/10/20 4:00	100	0.22	2.3
04/10/20 4:30	92	0.21	2.2
04/10/20 5:00	100	0.22	2.3
04/10/20 5:30	86	0.19	2.2
04/10/20 6:00	95	0.21	2.2
04/10/20 6:30	74	0.17	2.2
04/10/20 7:00	87	0.19	2.3
04/10/20 7:30	63	0.14	2.3
04/10/20 8:00	77	0.17	2.3
04/10/20 8:30	65	0.14	2.3
04/13/20 7:30	198	0.44	2.1
04/13/20 8:00	313	0.70	2.1
04/13/20 8:30	125	0.28	2.1
04/13/20 9:00	121	0.27	2.1
04/13/20 9:30	160	0.36	2.1
04/13/20 10:00	153	0.34	2.2
04/13/20 10:30	167	0.37	2.2
04/13/20 11:00	170	0.38	2.2
04/13/20 11:30	122	0.27	2.2
04/13/20 12:00	115	0.26	2.2
04/13/20 12:30	134	0.30	2.2
04/13/20 13:00	140	0.31	2.3
04/13/20 13:30	118	0.26	2.3
04/13/20 14:00	115	0.26	2.3
04/13/20 14:30	117	0.26	2.3
04/13/20 15:00	123	0.27	2.3
04/13/20 15:30	120	0.27	2.3
04/13/20 16:00	134	0.30	2.3
04/13/20 16:30	89	0.20	2.4
04/13/20 17:00	97	0.22	2.4
04/13/20 17:30	78	0.17	2.4
04/13/20 18:00	103	0.23	2.4
04/13/20 18:30	85	0.19	2.4
04/13/20 19:00	99	0.22	2.4
04/13/20 19:30	78	0.17	2.4
04/13/20 20:00	95	0.21	2.4
04/13/20 20:30	76	0.17	2.4

**TABLE ATT1-2**  
**HISTORICAL SEEP B FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/13/20 21:00	90	0.20	2.4
04/13/20 21:30	87	0.19	2.4
04/13/20 22:00	96	0.21	2.4
04/13/20 22:30	98	0.22	2.4
04/13/20 23:00	103	0.23	2.4
04/13/20 23:30	95	0.21	2.4
04/14/20 0:00	99	0.22	2.4
04/14/20 0:30	90	0.20	2.4
04/14/20 1:00	92	0.21	2.4
04/14/20 1:30	103	0.23	2.4
04/14/20 2:00	114	0.25	2.4
04/14/20 2:30	102	0.23	2.4
04/14/20 3:00	104	0.23	2.4
04/14/20 3:30	82	0.18	2.4
04/14/20 4:00	88	0.20	2.4
04/14/20 4:30	81	0.18	2.4
04/14/20 5:00	95	0.21	2.4
04/14/20 5:30	73	0.16	2.4
04/14/20 6:00	76	0.17	2.4
04/14/20 6:30	80	0.18	2.4
04/14/20 7:00	89	0.20	2.4
04/14/20 7:30	107	0.24	2.5
04/14/20 8:00	101	0.23	2.5
04/14/20 8:30	109	0.24	2.5
04/18/20 11:30	103	0.23	3.7
04/18/20 12:00	118	0.26	3.6
04/18/20 12:30	98	0.22	3.6
04/18/20 13:00	92	0.21	3.6
04/18/20 13:30	92	0.20	3.6
04/18/20 14:00	91	0.20	3.6
04/18/20 14:30	106	0.24	3.6
04/18/20 15:00	111	0.25	3.6
04/18/20 15:30	103	0.23	3.6
04/18/20 17:00	85	0.19	3.6
04/18/20 17:30	71	0.16	3.6
04/18/20 18:00	82	0.18	3.5
04/18/20 18:30	76	0.17	3.5
04/18/20 19:00	90	0.20	3.5
04/18/20 19:30	69	0.15	3.5
04/18/20 20:00	80	0.18	3.5
04/18/20 20:30	65	0.14	3.5
04/18/20 21:00	72	0.16	3.5
04/18/20 21:30	70	0.16	3.4
04/18/20 22:00	79	0.18	3.4
04/18/20 22:30	79	0.18	3.4
04/18/20 23:00	86	0.19	3.4
04/18/20 23:30	72	0.16	3.4
04/19/20 0:00	73	0.16	3.4
04/19/20 0:30	79	0.18	3.4
04/19/20 1:00	81	0.18	3.4

TABLE ATT1-2

Geosyntec Consultants of NC, P.C.

**HISTORICAL SEEP B FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Date and Time	Flow Rate (gpm)	Flow Rate (ft <sup>3</sup> /s)	Gage Height (ft)
04/19/20 1:30	83	0.19	3.3
04/19/20 2:00	85	0.19	3.3
04/19/20 2:30	81	0.18	3.3
04/19/20 3:00	83	0.19	3.3
04/19/20 3:30	83	0.18	3.3
04/19/20 4:00	77	0.17	3.3
04/19/20 4:30	93	0.21	3.3
04/19/20 5:00	99	0.22	3.3
04/19/20 5:30	84	0.19	3.3
04/19/20 6:00	73	0.16	3.3
04/19/20 6:30	85	0.19	3.3
04/19/20 7:00	85	0.19	3.2
04/19/20 7:30	97	0.22	3.2
04/19/20 8:00	88	0.20	3.2
04/19/20 8:30	108	0.24	3.2
04/19/20 9:00	105	0.23	3.2
04/19/20 9:30	91	0.20	3.2
04/19/20 10:00	80	0.18	3.2
04/19/20 10:30	108	0.24	3.2
04/19/20 11:00	117	0.26	3.2
04/20/20 2:00	105	0.23	2.8
04/20/20 2:30	122	0.27	2.8
04/20/20 3:00	95	0.21	2.8
04/20/20 3:30	105	0.23	2.8
04/20/20 4:00	85	0.19	2.8
04/20/20 4:30	142	0.32	2.8
04/20/20 5:00	124	0.28	2.8
04/20/20 5:30	153	0.34	2.8
04/20/20 6:00	130	0.29	2.8
04/20/20 6:30	138	0.31	2.8
04/20/20 7:00	125	0.28	2.7
04/20/20 7:30	135	0.30	2.7
04/20/20 8:00	122	0.27	2.7
04/20/20 8:30	125	0.28	2.7
04/20/20 9:00	139	0.31	2.7
04/20/20 9:30	97	0.22	2.7
04/20/20 10:00	133	0.30	2.7
04/20/20 10:30	79	0.18	2.7
04/20/20 11:00	90	0.20	2.7
04/20/20 11:30	154	0.34	2.7
04/20/20 12:00	157	0.35	2.7
04/20/20 12:30	240	0.53	2.7
04/20/20 13:00	221	0.49	2.7
04/20/20 13:30	154	0.34	2.7
04/20/20 14:00	176	0.39	2.7
04/20/20 14:30	134	0.30	2.7
04/20/20 15:00	163	0.36	2.7
04/20/20 15:30	118	0.26	2.7
04/20/20 17:00	113	0.25	2.7
04/20/20 17:30	90	0.20	2.7

TABLE ATT1-2

Geosyntec Consultants of NC, P.C.

**HISTORICAL SEEP B FLUME DATA - Q2 2020 WET WEATHER EVENTS**

**Chemours Fayetteville Works, North Carolina**

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/20/20 18:00	98	0.22	2.7
04/20/20 18:30	89	0.20	2.7
04/20/20 19:00	104	0.23	2.7
04/20/20 19:30	86	0.19	2.7
04/20/20 20:00	95	0.21	2.7
04/20/20 20:30	75	0.17	2.7
04/20/20 21:00	79	0.18	2.7
04/20/20 21:30	93	0.21	2.7
04/20/20 22:00	98	0.22	2.7
04/20/20 22:30	108	0.24	2.7
04/20/20 23:00	101	0.23	2.7
04/20/20 23:30	101	0.23	2.7
04/21/20 0:00	98	0.22	2.7
04/21/20 0:30	91	0.20	2.7
04/21/20 1:00	87	0.19	2.7
04/21/20 1:30	109	0.24	2.7
04/21/20 2:00	114	0.25	2.7
04/21/20 2:30	96	0.21	2.7
04/21/20 3:00	89	0.20	2.7
04/21/20 3:30	89	0.20	2.7
04/21/20 4:00	92	0.20	2.7
04/21/20 4:30	88	0.20	2.7
04/21/20 5:00	90	0.20	2.7
04/21/20 5:30	85	0.19	2.7
04/21/20 6:00	85	0.19	2.7
04/21/20 6:30	87	0.19	2.7
04/21/20 7:00	91	0.20	2.7
04/21/20 7:30	97	0.22	2.7
04/21/20 8:00	94	0.21	2.7
04/21/20 8:30	107	0.24	2.7
04/21/20 9:00	105	0.23	2.7
04/21/20 9:30	117	0.26	2.7
04/21/20 10:00	113	0.25	2.7
04/21/20 10:30	128	0.28	2.7
04/21/20 11:00	108	0.24	2.7
04/21/20 11:30	150	0.33	2.7
04/21/20 12:00	130	0.29	2.8
04/23/20 11:30	84	0.19	3.1
04/23/20 12:00	90	0.20	3.1
04/23/20 12:30	71	0.16	3.1
04/23/20 13:00	95	0.21	3.1
04/23/20 13:30	40	0.09	3.1
04/23/20 14:00	96	0.21	3.1
04/23/20 14:30	81	0.18	3.1
04/23/20 15:00	97	0.22	3.1
04/23/20 15:30	59	0.13	3.1
04/23/20 17:00	100	0.22	3.1
04/23/20 17:30	100	0.22	3.1
04/23/20 18:00	98	0.22	3.1
04/23/20 18:30	79	0.17	3.1

TABLE ATT1-2

Geosyntec Consultants of NC, P.C.

**HISTORICAL SEEP B FLUME DATA - Q2 2020 WET WEATHER EVENTS**

**Chemours Fayetteville Works, North Carolina**

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/23/20 19:00	98	0.22	3.1
04/23/20 19:30	62	0.14	3.1
04/23/20 20:00	98	0.22	3.1
04/23/20 20:30	124	0.28	3.1
04/23/20 21:00	99	0.22	3.1
04/23/20 21:30	133	0.30	3.1
04/23/20 22:00	104	0.23	3.0
04/23/20 22:30	89	0.20	3.1
04/23/20 23:00	106	0.24	3.0
04/23/20 23:30	102	0.23	3.0
04/24/20 0:00	126	0.28	3.0
04/24/20 0:30	88	0.20	3.0
04/24/20 1:00	126	0.28	3.0
04/24/20 1:30	118	0.26	3.0
04/24/20 2:00	132	0.29	3.0
04/24/20 2:30	121	0.27	3.0
04/24/20 3:00	120	0.27	3.0
04/24/20 3:30	124	0.28	3.0
04/24/20 4:00	114	0.25	3.0
04/24/20 4:30	111	0.25	3.0
04/24/20 5:00	112	0.25	3.0
04/24/20 5:30	110	0.25	3.0
04/24/20 6:00	110	0.25	3.0
04/24/20 6:30	99	0.22	3.0
04/24/20 7:00	104	0.23	3.0
04/24/20 7:30	109	0.24	3.0
04/24/20 8:00	109	0.24	3.0
04/24/20 8:30	105	0.23	3.0
04/24/20 9:00	105	0.23	2.9
04/24/20 9:30	106	0.24	2.9
04/24/20 10:00	103	0.23	2.9
04/24/20 10:30	103	0.23	2.9
04/24/20 11:00	109	0.24	2.9
04/24/20 11:30	113	0.25	2.9
04/24/20 12:00	107	0.24	2.9
04/24/20 12:45	88	0.20	2.9
04/24/20 13:15	102	0.23	2.9
04/24/20 13:45	99	0.22	2.9
04/24/20 14:15	94	0.21	2.9
04/24/20 14:45	83	0.19	2.9
04/24/20 15:15	91	0.20	2.9
04/24/20 15:45	84	0.19	2.9
04/24/20 16:45	94	0.21	2.9
04/24/20 17:15	90	0.20	2.9
04/24/20 17:45	91	0.20	2.8
04/24/20 18:15	93	0.21	2.8
04/24/20 18:45	102	0.23	2.8
04/24/20 19:15	91	0.20	2.8
04/24/20 19:45	108	0.24	2.8
04/24/20 20:15	92	0.20	2.8

TABLE ATT1-2

Geosyntec Consultants of NC, P.C.

**HISTORICAL SEEP B FLUME DATA - Q2 2020 WET WEATHER EVENTS**

**Chemours Fayetteville Works, North Carolina**

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/24/20 20:45	111	0.25	2.8
04/24/20 21:15	95	0.21	2.8
04/24/20 21:45	114	0.25	2.8
04/24/20 22:15	92	0.20	2.8
04/24/20 22:45	100	0.22	2.8
04/24/20 23:15	99	0.22	2.8
04/24/20 23:45	110	0.24	2.8
04/25/20 0:15	93	0.21	2.8
04/30/20 5:15	93	0.21	2.7
04/30/20 5:45	83	0.19	2.7
04/30/20 6:15	320	0.71	2.7
04/30/20 6:45	189	0.42	2.7
04/30/20 7:15	457	1.02	2.7
04/30/20 7:45	473	1.05	2.7
04/30/20 8:15	525	1.17	2.7
04/30/20 8:45	410	0.91	2.6
04/30/20 9:15	437	0.97	2.7
04/30/20 9:45	436	0.97	2.7
04/30/20 10:15	391	0.87	2.7
04/30/20 10:45	325	0.72	2.7
04/30/20 11:15	371	0.83	2.7
04/30/20 11:45	337	0.75	2.8
04/30/20 12:15	317	0.71	2.8
04/30/20 12:45	296	0.66	2.8
04/30/20 13:15	285	0.64	2.8
04/30/20 13:45	275	0.61	2.8
04/30/20 14:15	244	0.54	2.8
04/30/20 14:45	223	0.50	2.9
04/30/20 15:15	219	0.49	2.9
04/30/20 15:45	196	0.44	2.9
04/30/20 16:45	182	0.41	3.0
04/30/20 17:15	196	0.44	3.0
04/30/20 17:45	191	0.43	3.0
04/30/20 18:15	192	0.43	3.1
04/30/20 18:45	173	0.39	3.1
04/30/20 19:15	182	0.41	3.1
04/30/20 19:45	192	0.43	3.1
04/30/20 20:15	167	0.37	3.2
04/30/20 20:45	171	0.38	3.2
04/30/20 21:15	162	0.36	3.2
04/30/20 21:45	181	0.40	3.2
04/30/20 22:15	150	0.33	3.3
04/30/20 22:45	153	0.34	3.3
04/30/20 23:15	139	0.31	3.3
04/30/20 23:45	137	0.31	3.3
05/01/20 0:15	141	0.31	3.3
05/01/20 0:45	148	0.33	3.4
05/01/20 1:15	130	0.29	3.4
05/01/20 1:45	126	0.28	3.4
05/01/20 2:15	122	0.27	3.4

TABLE ATT1-2

Geosyntec Consultants of NC, P.C.

**HISTORICAL SEEP B FLUME DATA - Q2 2020 WET WEATHER EVENTS**

**Chemours Fayetteville Works, North Carolina**

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
05/01/20 2:45	117	0.26	3.4
05/01/20 3:15	125	0.28	3.5
05/01/20 3:45	129	0.29	3.5
05/01/20 4:15	121	0.27	3.5
05/01/20 4:45	121	0.27	3.5
05/01/20 5:15	126	0.28	3.5
05/01/20 5:45	144	0.32	3.6
05/01/20 6:15	124	0.28	3.6
05/01/20 6:45	135	0.30	3.6
05/01/20 7:15	114	0.25	3.6
05/01/20 7:45	136	0.30	3.7
05/01/20 8:15	112	0.25	3.7
05/01/20 8:45	120	0.27	3.7
05/01/20 9:15	114	0.25	3.7
05/01/20 9:45	115	0.26	3.8
05/01/20 10:15	121	0.27	3.8
05/01/20 10:45	153	0.34	3.8
05/01/20 11:15	135	0.30	3.9
05/06/20 12:45	109	0.24	4.5
05/06/20 13:15	108	0.24	4.5
05/06/20 13:45	109	0.24	4.5
05/06/20 14:15	114	0.25	4.5
05/06/20 14:45	119	0.27	4.5
05/06/20 15:15	113	0.25	4.5
05/06/20 15:45	106	0.24	4.5
05/06/20 16:45	110	0.24	4.5
05/06/20 17:15	101	0.22	4.5
05/06/20 17:45	109	0.24	4.5
05/06/20 18:15	113	0.25	4.5
05/06/20 18:45	146	0.32	4.5
05/06/20 19:15	214	0.48	4.5
05/06/20 19:45	103	0.23	4.5
05/06/20 20:15	96	0.21	4.5
05/06/20 20:45	116	0.26	4.5
05/06/20 21:15	146	0.32	4.5
05/06/20 21:45	114	0.25	4.5
05/06/20 22:15	139	0.31	4.5
05/06/20 22:45	95	0.21	4.5
05/06/20 23:15	97	0.22	4.5
05/06/20 23:45	95	0.21	4.5
05/07/20 0:15	101	0.22	4.5
05/07/20 0:45	95	0.21	4.4
05/07/20 1:15	105	0.23	4.4
05/07/20 1:45	89	0.20	4.5
05/07/20 2:15	83	0.18	4.4
05/07/20 2:45	88	0.20	4.4
05/07/20 3:15	88	0.20	4.4
05/07/20 3:45	90	0.20	4.4
05/07/20 4:15	93	0.21	4.4
05/07/20 4:45	95	0.21	4.4

TABLE ATT1-2

Geosyntec Consultants of NC, P.C.

**HISTORICAL SEEP B FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Date and Time	Flow Rate (gpm)	Flow Rate (ft <sup>3</sup> /s)	Gage Height (ft)
05/07/20 5:15	105	0.23	4.4
05/07/20 5:45	96	0.21	4.4
05/07/20 6:15	108	0.24	4.4
05/07/20 6:45	96	0.21	4.4
05/07/20 7:15	112	0.25	4.4
05/07/20 7:45	88	0.20	4.4
05/07/20 8:15	93	0.21	4.3
05/07/20 8:45	95	0.21	4.3
05/07/20 9:15	106	0.24	4.3
05/07/20 9:45	93	0.21	4.3
05/07/20 10:15	99	0.22	4.3
05/07/20 10:45	101	0.23	4.3
05/07/20 11:15	97	0.22	4.2
05/07/20 11:45	88	0.20	4.2
05/07/20 12:15	82	0.18	4.2
05/07/20 12:45	87	0.19	4.2
05/07/20 13:15	81	0.18	4.1
05/07/20 13:45	87	0.19	4.1
05/07/20 14:15	83	0.19	4.1
05/07/20 14:45	87	0.19	4.1
05/07/20 15:15	79	0.18	4.1
05/07/20 15:45	85	0.19	4.1
05/07/20 16:45	88	0.20	4.0
05/07/20 17:15	90	0.20	4.0
05/07/20 17:45	88	0.20	4.0
05/07/20 18:15	91	0.20	4.0
05/07/20 18:45	87	0.19	3.9
05/07/20 19:15	96	0.21	3.9
05/07/20 19:45	91	0.20	3.9
05/07/20 20:15	107	0.24	3.9
05/07/20 20:45	88	0.20	3.9
05/18/20 20:45	103	0.23	1.5
05/18/20 21:15	112	0.25	1.5
05/18/20 21:45	102	0.23	1.5
05/18/20 22:15	124	0.28	1.5
05/18/20 22:45	108	0.24	1.5
05/18/20 23:15	104	0.23	1.5
05/18/20 23:45	102	0.23	1.5
<b>Median Flow Rate</b>	101.3	0.2	

**Notes**

Measurements are recorded from the flume at Seep B.

ft<sup>3</sup>/sec - cubic feet per second

ft - feet

gpm - gallons per minute



TABLE ATT1-3

Geosyntec Consultants of NC, P.C.

**HISTORICAL SEEP C FLUME DATA - Q2 2020 WET WEATHER EVENTS**

**Chemours Fayetteville Works, North Carolina**

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/01/20 0:00	65	0.15	3.9
04/01/20 0:30	56	0.13	3.9
04/01/20 1:00	66	0.15	3.8
04/01/20 1:30	56	0.12	3.8
04/01/20 2:00	57	0.13	3.8
04/01/20 2:30	54	0.12	3.8
04/01/20 3:00	58	0.13	3.8
04/01/20 3:30	59	0.13	3.8
04/01/20 4:00	73	0.16	3.8
04/01/20 4:30	46	0.10	3.8
04/01/20 5:00	54	0.12	3.8
04/01/20 5:30	35	0.08	3.8
04/01/20 6:00	46	0.10	3.8
04/01/20 6:30	39	0.09	3.8
04/01/20 7:00	47	0.10	3.8
04/01/20 7:30	46	0.10	3.8
04/01/20 8:00	57	0.13	3.8
04/01/20 8:30	45	0.10	3.8
04/01/20 9:00	52	0.12	3.8
04/01/20 9:30	40	0.09	3.8
04/01/20 10:00	48	0.11	3.8
04/01/20 10:30	47	0.11	3.8
04/01/20 11:00	53	0.12	3.8
04/01/20 11:30	58	0.13	3.8
04/01/20 12:00	60	0.13	3.8
04/01/20 12:30	66	0.15	3.8
04/01/20 13:00	65	0.14	3.8
04/01/20 13:30	62	0.14	3.8
04/01/20 14:00	62	0.14	3.7
04/01/20 14:30	66	0.15	3.8
04/01/20 15:00	68	0.15	3.8
04/01/20 15:30	62	0.14	3.7
04/01/20 16:00	61	0.14	3.7
04/01/20 16:30	57	0.13	3.8
04/01/20 17:00	65	0.14	3.8
04/01/20 17:30	48	0.11	3.7
04/01/20 18:00	56	0.12	3.7
04/01/20 18:30	42	0.09	3.7
04/01/20 19:00	54	0.12	3.7
04/01/20 19:30	38	0.08	3.7
04/01/20 20:00	45	0.10	3.7
04/01/20 20:30	43	0.10	3.7
04/01/20 21:00	52	0.12	3.7
04/01/20 21:30	49	0.11	3.7
04/01/20 22:00	55	0.12	3.7
04/01/20 22:30	51	0.11	3.7
04/01/20 23:00	54	0.12	3.7
04/01/20 23:30	56	0.12	3.7
04/02/20 0:00	61	0.14	3.7
04/02/20 0:30	56	0.12	3.7

**TABLE ATT1-3**  
**HISTORICAL SEEP C FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/02/20 1:00	57	0.13	3.7
04/02/20 1:30	58	0.13	3.7
04/02/20 2:00	60	0.13	3.7
04/02/20 2:30	62	0.14	3.7
04/02/20 3:00	62	0.14	3.7
04/06/20 21:00	54	0.12	2.1
04/06/20 21:30	59	0.13	2.2
04/06/20 22:00	58	0.13	2.2
04/06/20 22:30	54	0.12	2.1
04/06/20 23:00	53	0.12	2.2
04/06/20 23:30	53	0.12	2.1
04/07/20 0:00	51	0.11	2.2
04/07/20 0:30	60	0.13	2.1
04/07/20 1:00	57	0.13	2.1
04/07/20 1:30	63	0.14	2.1
04/07/20 2:00	59	0.13	2.1
04/07/20 2:30	62	0.14	2.1
04/07/20 3:00	60	0.13	2.1
04/07/20 3:30	51	0.11	2.1
04/07/20 4:00	52	0.12	2.1
04/07/20 4:30	48	0.11	2.1
04/07/20 5:00	48	0.11	2.1
04/07/20 5:30	46	0.10	2.1
04/07/20 6:00	48	0.11	2.1
04/07/20 6:30	43	0.10	2.1
04/07/20 7:00	45	0.10	2.1
04/07/20 7:30	49	0.11	2.1
04/07/20 8:00	51	0.11	2.1
04/07/20 8:30	55	0.12	2.1
04/07/20 9:00	56	0.12	2.1
04/07/20 9:30	60	0.13	2.1
04/07/20 10:00	53	0.12	2.1
04/07/20 10:30	69	0.15	2.1
04/07/20 11:00	62	0.14	2.1
04/07/20 11:30	80	0.18	2.1
04/07/20 12:00	66	0.15	2.1
04/07/20 12:30	84	0.19	2.1
04/07/20 13:00	69	0.15	2.1
04/07/20 13:30	81	0.18	2.1
04/07/20 14:00	35	0.08	2.1
04/07/20 14:30	76	0.17	2.1
04/07/20 15:00	70	0.16	2.1
04/07/20 15:30	63	0.14	2.1
04/07/20 16:00	51	0.11	2.1
04/07/20 16:30	69	0.15	2.1
04/07/20 17:00	65	0.14	2.1
04/07/20 17:30	66	0.15	2.1
04/07/20 18:00	60	0.13	2.1
04/07/20 18:30	58	0.13	2.1
04/07/20 19:00	60	0.13	2.1

**TABLE ATT1-3**  
**HISTORICAL SEEP C FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/07/20 19:30	55	0.12	2.1
04/07/20 20:00	55	0.12	2.1
04/07/20 20:30	48	0.11	2.1
04/08/20 21:30	108	0.24	2.1
04/08/20 22:00	133	0.30	2.1
04/08/20 22:30	108	0.24	2.1
04/08/20 23:00	68	0.15	2.1
04/08/20 23:30	95	0.21	2.1
04/09/20 0:00	82	0.18	2.1
04/09/20 0:30	72	0.16	2.2
04/09/20 1:00	64	0.14	2.1
04/09/20 1:30	69	0.15	2.1
04/09/20 2:00	61	0.14	2.2
04/09/20 2:30	74	0.16	2.1
04/09/20 3:00	59	0.13	2.1
04/09/20 3:30	74	0.16	2.2
04/09/20 4:00	65	0.14	2.2
04/09/20 4:30	78	0.17	2.2
04/09/20 5:00	89	0.20	2.2
04/09/20 5:30	34	0.07	2.2
04/09/20 6:00	35	0.08	2.2
04/09/20 6:30	33	0.07	2.2
04/09/20 7:00	32	0.07	2.2
04/09/20 7:30	78	0.17	2.2
04/09/20 8:00	107	0.24	2.2
04/09/20 8:30	69	0.15	2.2
04/09/20 9:00	62	0.14	2.2
04/09/20 9:30	60	0.13	2.2
04/09/20 10:00	50	0.11	2.2
04/09/20 10:30	76	0.17	2.2
04/09/20 11:00	71	0.16	2.2
04/09/20 11:30	86	0.19	2.2
04/09/20 12:00	72	0.16	2.2
04/09/20 12:30	70	0.16	2.2
04/09/20 13:00	59	0.13	2.2
04/09/20 13:30	68	0.15	2.2
04/09/20 14:00	54	0.12	2.2
04/09/20 14:30	79	0.18	2.2
04/09/20 15:00	71	0.16	2.2
04/09/20 15:30	68	0.15	2.3
04/09/20 16:00	61	0.14	2.2
04/09/20 16:30	54	0.12	2.2
04/09/20 17:00	51	0.11	2.2
04/09/20 17:30	51	0.11	2.2
04/09/20 18:00	53	0.12	2.2
04/09/20 18:30	52	0.12	2.2
04/09/20 19:00	61	0.14	2.2
04/09/20 19:30	37	0.08	2.2
04/09/20 20:00	43	0.10	2.2
04/09/20 20:30	31	0.07	2.2

**TABLE ATT1-3**  
**HISTORICAL SEEP C FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/09/20 21:00	39	0.09	2.2
04/09/20 21:30	39	0.09	2.2
04/09/20 22:00	49	0.11	2.2
04/09/20 22:30	39	0.09	2.2
04/09/20 23:00	47	0.11	2.2
04/09/20 23:30	29	0.06	2.2
04/10/20 0:00	34	0.08	2.2
04/10/20 0:30	38	0.08	2.2
04/10/20 1:00	47	0.10	2.2
04/10/20 1:30	37	0.08	2.2
04/10/20 2:00	44	0.10	2.2
04/10/20 2:30	38	0.09	2.3
04/10/20 3:00	41	0.09	2.3
04/10/20 3:30	41	0.09	2.3
04/10/20 4:00	49	0.11	2.3
04/10/20 4:30	45	0.10	2.2
04/10/20 5:00	50	0.11	2.3
04/10/20 5:30	42	0.09	2.2
04/10/20 6:00	50	0.11	2.2
04/10/20 6:30	34	0.08	2.2
04/10/20 7:00	45	0.10	2.3
04/10/20 7:30	28	0.06	2.3
04/10/20 8:00	38	0.09	2.3
04/10/20 8:30	30	0.07	2.3
04/13/20 7:30	110	0.25	2.1
04/13/20 8:00	194	0.43	2.1
04/13/20 8:30	97	0.22	2.1
04/13/20 9:00	51	0.11	2.1
04/13/20 9:30	55	0.12	2.1
04/13/20 10:00	52	0.12	2.2
04/13/20 10:30	61	0.14	2.2
04/13/20 11:00	63	0.14	2.2
04/13/20 11:30	44	0.10	2.2
04/13/20 12:00	44	0.10	2.2
04/13/20 12:30	55	0.12	2.2
04/13/20 13:00	63	0.14	2.3
04/13/20 13:30	49	0.11	2.3
04/13/20 14:00	49	0.11	2.3
04/13/20 14:30	51	0.11	2.3
04/13/20 15:00	58	0.13	2.3
04/13/20 15:30	54	0.12	2.3
04/13/20 16:00	64	0.14	2.3
04/13/20 16:30	36	0.08	2.4
04/13/20 17:00	44	0.10	2.4
04/13/20 17:30	33	0.07	2.4
04/13/20 18:00	48	0.11	2.4
04/13/20 18:30	37	0.08	2.4
04/13/20 19:00	46	0.10	2.4
04/13/20 19:30	35	0.08	2.4
04/13/20 20:00	45	0.10	2.4

**TABLE ATT1-3**  
**HISTORICAL SEEP C FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/13/20 20:30	34	0.07	2.4
04/13/20 21:00	42	0.09	2.4
04/13/20 21:30	41	0.09	2.4
04/13/20 22:00	46	0.10	2.4
04/13/20 22:30	47	0.10	2.4
04/13/20 23:00	51	0.11	2.4
04/13/20 23:30	46	0.10	2.4
04/14/20 0:00	48	0.11	2.4
04/14/20 0:30	43	0.10	2.4
04/14/20 1:00	46	0.10	2.4
04/14/20 1:30	53	0.12	2.4
04/14/20 2:00	61	0.14	2.4
04/14/20 2:30	51	0.11	2.4
04/14/20 3:00	54	0.12	2.4
04/14/20 3:30	39	0.09	2.4
04/14/20 4:00	44	0.10	2.4
04/14/20 4:30	39	0.09	2.4
04/14/20 5:00	48	0.11	2.4
04/14/20 5:30	34	0.08	2.4
04/14/20 6:00	36	0.08	2.4
04/14/20 6:30	40	0.09	2.4
04/14/20 7:00	45	0.10	2.4
04/14/20 7:30	57	0.13	2.5
04/14/20 8:00	54	0.12	2.5
04/14/20 8:30	59	0.13	2.5
04/18/20 11:30	51	0.11	3.7
04/18/20 12:00	58	0.13	3.6
04/18/20 12:30	47	0.11	3.6
04/18/20 13:00	43	0.10	3.6
04/18/20 13:30	43	0.10	3.6
04/18/20 14:00	43	0.09	3.6
04/18/20 14:30	52	0.12	3.6
04/18/20 15:00	55	0.12	3.6
04/18/20 15:30	49	0.11	3.6
04/18/20 17:00	40	0.09	3.6
04/18/20 17:30	32	0.07	3.6
04/18/20 18:00	40	0.09	3.5
04/18/20 18:30	37	0.08	3.5
04/18/20 19:00	46	0.10	3.5
04/18/20 19:30	33	0.07	3.5
04/18/20 20:00	40	0.09	3.5
04/18/20 20:30	31	0.07	3.5
04/18/20 21:00	37	0.08	3.5
04/18/20 21:30	36	0.08	3.4
04/18/20 22:00	42	0.09	3.4
04/18/20 22:30	44	0.10	3.4
04/18/20 23:00	47	0.11	3.4
04/18/20 23:30	39	0.09	3.4
04/19/20 0:00	37	0.08	3.4
04/19/20 0:30	42	0.09	3.4

**TABLE ATT1-3**  
**HISTORICAL SEEP C FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/19/20 1:00	43	0.10	3.4
04/19/20 1:30	44	0.10	3.3
04/19/20 2:00	46	0.10	3.3
04/19/20 2:30	46	0.10	3.3
04/19/20 3:00	45	0.10	3.3
04/19/20 3:30	43	0.10	3.3
04/19/20 4:00	41	0.09	3.3
04/19/20 4:30	55	0.12	3.3
04/19/20 5:00	57	0.13	3.3
04/19/20 5:30	46	0.10	3.3
04/19/20 6:00	39	0.09	3.3
04/19/20 6:30	48	0.11	3.3
04/19/20 7:00	47	0.11	3.2
04/19/20 7:30	56	0.12	3.2
04/19/20 8:00	48	0.11	3.2
04/19/20 8:30	64	0.14	3.2
04/19/20 9:00	60	0.13	3.2
04/19/20 9:30	50	0.11	3.2
04/19/20 10:00	39	0.09	3.2
04/19/20 10:30	60	0.13	3.2
04/19/20 11:00	64	0.14	3.2
04/20/20 2:00	58	0.13	2.8
04/20/20 2:30	68	0.15	2.8
04/20/20 3:00	52	0.12	2.8
04/20/20 3:30	59	0.13	2.8
04/20/20 4:00	47	0.11	2.8
04/20/20 4:30	85	0.19	2.8
04/20/20 5:00	73	0.16	2.8
04/20/20 5:30	90	0.20	2.8
04/20/20 6:00	74	0.16	2.8
04/20/20 6:30	73	0.16	2.8
04/20/20 7:00	63	0.14	2.7
04/20/20 7:30	71	0.16	2.7
04/20/20 8:00	57	0.13	2.7
04/20/20 8:30	59	0.13	2.7
04/20/20 9:00	67	0.15	2.7
04/20/20 9:30	42	0.09	2.7
04/20/20 10:00	67	0.15	2.7
04/20/20 10:30	53	0.12	2.7
04/20/20 11:00	48	0.11	2.7
04/20/20 11:30	120	0.27	2.7
04/20/20 12:00	141	0.31	2.7
04/20/20 12:30	87	0.19	2.7
04/20/20 13:00	80	0.18	2.7
04/20/20 13:30	51	0.11	2.7
04/20/20 14:00	64	0.14	2.7
04/20/20 14:30	51	0.11	2.7
04/20/20 15:00	70	0.15	2.7
04/20/20 15:30	45	0.10	2.7
04/20/20 17:00	48	0.11	2.7

TABLE ATT1-3

Geosyntec Consultants of NC, P.C.

**HISTORICAL SEEP C FLUME DATA - Q2 2020 WET WEATHER EVENTS**

**Chemours Fayetteville Works, North Carolina**

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/20/20 17:30	35	0.08	2.7
04/20/20 18:00	41	0.09	2.7
04/20/20 18:30	38	0.08	2.7
04/20/20 19:00	47	0.10	2.7
04/20/20 19:30	37	0.08	2.7
04/20/20 20:00	43	0.10	2.7
04/20/20 20:30	33	0.07	2.7
04/20/20 21:00	36	0.08	2.7
04/20/20 21:30	44	0.10	2.7
04/20/20 22:00	46	0.10	2.7
04/20/20 22:30	53	0.12	2.7
04/20/20 23:00	50	0.11	2.7
04/20/20 23:30	50	0.11	2.7
04/21/20 0:00	48	0.11	2.7
04/21/20 0:30	44	0.10	2.7
04/21/20 1:00	42	0.09	2.7
04/21/20 1:30	56	0.13	2.7
04/21/20 2:00	59	0.13	2.7
04/21/20 2:30	47	0.11	2.7
04/21/20 3:00	45	0.10	2.7
04/21/20 3:30	44	0.10	2.7
04/21/20 4:00	47	0.10	2.7
04/21/20 4:30	42	0.09	2.7
04/21/20 5:00	44	0.10	2.7
04/21/20 5:30	42	0.09	2.7
04/21/20 6:00	42	0.09	2.7
04/21/20 6:30	43	0.10	2.7
04/21/20 7:00	45	0.10	2.7
04/21/20 7:30	48	0.11	2.7
04/21/20 8:00	47	0.10	2.7
04/21/20 8:30	56	0.13	2.7
04/21/20 9:00	52	0.12	2.7
04/21/20 9:30	59	0.13	2.7
04/21/20 10:00	55	0.12	2.7
04/21/20 10:30	61	0.14	2.7
04/21/20 11:00	50	0.11	2.7
04/21/20 11:30	81	0.18	2.7
04/21/20 12:00	69	0.15	2.8
04/21/20 12:30	66	0.15	2.8
04/21/20 13:00	49	0.11	2.8
04/21/20 13:30	37	0.08	2.8
04/21/20 14:00	30	0.07	2.8
04/21/20 14:30	24	0.05	2.8
04/21/20 15:00	19	0.04	2.8
04/21/20 15:30	46	0.10	2.8
04/23/20 11:30	43	0.09	3.1
04/23/20 12:00	48	0.11	3.1
04/23/20 12:30	34	0.08	3.1
04/23/20 13:00	49	0.11	3.1
04/23/20 13:30	15	0.03	3.1

TABLE ATT1-3

Geosyntec Consultants of NC, P.C.

**HISTORICAL SEEP C FLUME DATA - Q2 2020 WET WEATHER EVENTS**

**Chemours Fayetteville Works, North Carolina**

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/23/20 14:00	50	0.11	3.1
04/23/20 14:30	39	0.09	3.1
04/23/20 15:00	50	0.11	3.1
04/23/20 15:30	24	0.05	3.1
04/23/20 17:00	48	0.11	3.1
04/23/20 17:30	50	0.11	3.1
04/23/20 18:00	49	0.11	3.1
04/23/20 18:30	36	0.08	3.1
04/23/20 19:00	50	0.11	3.1
04/23/20 19:30	28	0.06	3.1
04/23/20 20:00	49	0.11	3.1
04/23/20 20:30	68	0.15	3.1
04/23/20 21:00	51	0.11	3.1
04/23/20 21:30	75	0.17	3.1
04/23/20 22:00	55	0.12	3.0
04/23/20 22:30	53	0.12	3.1
04/23/20 23:00	65	0.14	3.0
04/23/20 23:30	56	0.12	3.0
04/24/20 0:00	69	0.15	3.0
04/24/20 0:30	42	0.09	3.0
04/24/20 1:00	59	0.13	3.0
04/24/20 1:30	49	0.11	3.0
04/24/20 2:00	54	0.12	3.0
04/24/20 2:30	53	0.12	3.0
04/24/20 3:00	54	0.12	3.0
04/24/20 3:30	56	0.12	3.0
04/24/20 4:00	51	0.11	3.0
04/24/20 4:30	49	0.11	3.0
04/24/20 5:00	51	0.11	3.0
04/24/20 5:30	50	0.11	3.0
04/24/20 6:00	50	0.11	3.0
04/24/20 6:30	43	0.10	3.0
04/24/20 7:00	50	0.11	3.0
04/24/20 7:30	51	0.11	3.0
04/24/20 8:00	50	0.11	3.0
04/24/20 8:30	50	0.11	3.0
04/24/20 9:00	52	0.12	2.9
04/24/20 9:30	52	0.12	2.9
04/24/20 10:00	49	0.11	2.9
04/24/20 10:30	47	0.11	2.9
04/24/20 11:00	51	0.11	2.9
04/24/20 11:30	54	0.12	2.9
04/24/20 12:15	54	0.12	2.9
04/24/20 12:45	47	0.10	2.9
04/24/20 13:15	57	0.13	2.9
04/24/20 13:45	56	0.12	2.9
04/24/20 14:15	53	0.12	2.9
04/24/20 14:45	44	0.10	2.9
04/24/20 15:15	52	0.12	2.9
04/24/20 15:45	49	0.11	2.9



**TABLE ATT1-3**  
**HISTORICAL SEEP C FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/24/20 16:45	58	0.13	2.9
04/24/20 17:15	55	0.12	2.9
04/24/20 17:45	56	0.12	2.8
04/24/20 18:15	59	0.13	2.8
04/24/20 18:45	67	0.15	2.8
04/24/20 19:15	58	0.13	2.8
04/24/20 19:45	70	0.16	2.8
04/24/20 20:15	58	0.13	2.8
04/24/20 20:45	71	0.16	2.8
04/24/20 21:15	59	0.13	2.8
04/24/20 21:45	73	0.16	2.8
04/24/20 22:15	58	0.13	2.8
04/24/20 22:45	62	0.14	2.8
04/24/20 23:15	60	0.13	2.8
04/24/20 23:45	68	0.15	2.8
04/25/20 0:15	55	0.12	2.8
04/25/20 0:45	62	0.14	2.8
04/25/20 1:15	57	0.13	2.8
04/25/20 1:45	69	0.15	2.8
04/25/20 2:15	54	0.12	2.8
04/25/20 2:45	56	0.12	2.7
04/25/20 3:15	55	0.12	2.7
04/30/20 5:15	54	0.12	2.7
04/30/20 5:45	51	0.11	2.7
04/30/20 6:15	332	0.74	2.7
04/30/20 6:45	316	0.70	2.7
04/30/20 7:15	284	0.63	2.7
04/30/20 8:15	437	0.97	2.7
04/30/20 8:45	337	0.75	2.6
04/30/20 9:15	375	0.84	2.7
04/30/20 9:45	521	1.16	2.7
04/30/20 10:15	329	0.73	2.7
04/30/20 10:45	284	0.63	2.7
04/30/20 11:15	329	0.73	2.7
04/30/20 11:45	251	0.56	2.8
04/30/20 12:15	215	0.48	2.8
04/30/20 12:45	180	0.40	2.8
04/30/20 13:15	166	0.37	2.8
04/30/20 13:45	161	0.36	2.8
04/30/20 14:15	140	0.31	2.8
04/30/20 14:45	128	0.28	2.9
04/30/20 15:15	126	0.28	2.9
04/30/20 15:45	106	0.24	2.9
04/30/20 16:45	97	0.22	3.0
04/30/20 17:15	106	0.24	3.0
04/30/20 17:45	103	0.23	3.0
04/30/20 18:15	101	0.22	3.1
04/30/20 18:45	90	0.20	3.1
04/30/20 19:15	97	0.22	3.1
04/30/20 19:45	105	0.23	3.1

**TABLE ATT1-3**  
**HISTORICAL SEEP C FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
04/30/20 20:15	89	0.20	3.2
04/30/20 20:45	92	0.21	3.2
04/30/20 21:15	87	0.19	3.2
04/30/20 21:45	100	0.22	3.2
04/30/20 22:15	80	0.18	3.3
04/30/20 22:45	82	0.18	3.3
04/30/20 23:15	73	0.16	3.3
04/30/20 23:45	72	0.16	3.3
05/01/20 0:15	76	0.17	3.3
05/01/20 0:45	81	0.18	3.4
05/01/20 1:15	69	0.15	3.4
05/01/20 1:45	69	0.15	3.4
05/01/20 2:15	65	0.15	3.4
05/01/20 2:45	62	0.14	3.4
05/01/20 3:15	67	0.15	3.5
05/01/20 3:45	72	0.16	3.5
05/01/20 4:15	65	0.14	3.5
05/01/20 4:45	66	0.15	3.5
05/01/20 5:15	67	0.15	3.5
05/01/20 5:45	80	0.18	3.6
05/01/20 6:15	65	0.14	3.6
05/01/20 6:45	76	0.17	3.6
05/01/20 7:15	62	0.14	3.6
05/01/20 7:45	75	0.17	3.7
05/01/20 8:15	61	0.14	3.7
05/01/20 8:45	67	0.15	3.7
05/01/20 9:15	63	0.14	3.7
05/01/20 9:45	62	0.14	3.8
05/01/20 10:15	62	0.14	3.8
05/01/20 10:45	68	0.15	3.8
05/01/20 11:15	64	0.14	3.9
05/01/20 11:45	64	0.14	3.9
05/01/20 12:15	63	0.14	3.9
05/01/20 12:45	61	0.14	4.0
05/01/20 13:15	66	0.15	4.1
05/01/20 13:45	67	0.15	4.1
05/01/20 14:15	63	0.14	4.2
05/01/20 14:45	58	0.13	4.2
05/06/20 13:00	50	0.11	4.5
05/06/20 13:30	50	0.11	4.5
05/06/20 14:00	55	0.12	4.5
05/06/20 14:30	61	0.13	4.5
05/06/20 15:00	62	0.14	4.5
05/06/20 15:30	60	0.13	4.5
05/06/20 17:00	57	0.13	4.5
05/06/20 17:30	51	0.11	4.5
05/06/20 18:00	62	0.14	4.5
05/06/20 18:30	64	0.14	4.5
05/06/20 19:00	122	0.27	4.5
05/06/20 19:30	177	0.39	4.5

**TABLE ATT1-3**  
**HISTORICAL SEEP C FLUME DATA - Q2 2020 WET WEATHER EVENTS**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
05/06/20 20:00	66	0.15	4.5
05/06/20 20:30	65	0.15	4.5
05/06/20 21:00	86	0.19	4.5
05/06/20 21:30	109	0.24	4.5
05/06/20 22:00	77	0.17	4.5
05/06/20 22:30	106	0.24	4.5
05/06/20 23:00	57	0.13	4.5
05/06/20 23:30	59	0.13	4.5
05/07/20 0:00	60	0.13	4.5
05/07/20 0:30	63	0.14	4.5
05/07/20 1:00	63	0.14	4.4
05/07/20 1:30	70	0.16	4.5
05/07/20 2:00	53	0.12	4.4
05/07/20 2:30	47	0.11	4.4
05/07/20 3:00	55	0.12	4.4
05/07/20 3:30	57	0.13	4.4
05/07/20 4:00	58	0.13	4.4
05/07/20 4:30	61	0.14	4.4
05/07/20 5:00	66	0.15	4.4
05/07/20 5:30	72	0.16	4.4
05/07/20 6:00	65	0.15	4.4
05/07/20 6:30	78	0.17	4.4
05/07/20 7:00	70	0.16	4.4
05/07/20 7:30	85	0.19	4.4
05/07/20 8:00	56	0.13	4.4
05/07/20 8:30	63	0.14	4.3
05/07/20 9:00	65	0.15	4.3
05/07/20 9:30	71	0.16	4.3
05/07/20 10:00	61	0.14	4.3
05/07/20 10:30	64	0.14	4.3
05/07/20 11:00	59	0.13	4.2
05/07/20 11:30	58	0.13	4.2
05/07/20 12:00	53	0.12	4.2
05/07/20 12:30	48	0.11	4.2
05/07/20 13:00	54	0.12	4.2
05/07/20 13:30	48	0.11	4.1
05/07/20 14:00	52	0.12	4.1
05/07/20 14:30	48	0.11	4.1
05/07/20 15:00	50	0.11	4.1
05/07/20 15:30	46	0.10	4.1
05/07/20 17:00	57	0.13	4.0
05/07/20 17:30	56	0.12	4.0
05/07/20 18:00	59	0.13	4.0
05/07/20 18:30	60	0.13	3.9
05/07/20 19:00	61	0.14	3.9
05/07/20 19:30	69	0.15	3.9
05/07/20 20:00	67	0.15	3.9
05/07/20 20:30	80	0.18	3.9
05/07/20 21:00	61	0.13	3.9
05/07/20 21:30	73	0.16	3.8

TABLE ATT1-3

Geosyntec Consultants of NC, P.C.

**HISTORICAL SEEP C FLUME DATA - Q2 2020 WET WEATHER EVENTS**

**Chemours Fayetteville Works, North Carolina**

Date and Time	Flow Rate (gpm)	Flow Rate (ft <sup>3</sup> /s)	Gage Height (ft)
05/07/20 22:00	57	0.13	3.8
05/07/20 22:30	60	0.13	3.8
05/07/20 23:00	50	0.11	3.8
05/07/20 23:30	47	0.11	3.8
05/08/20 0:00	51	0.11	3.8
05/08/20 0:30	46	0.10	3.8
05/08/20 1:00	52	0.12	3.8
05/18/20 21:00	71	0.16	1.5
05/18/20 21:30	73	0.16	1.5
05/18/20 22:00	71	0.16	1.5
05/18/20 22:30	77	0.17	1.5
05/18/20 23:00	64	0.14	1.5
05/18/20 23:30	57	0.13	1.5
05/19/20 0:00	50	0.11	1.5
05/19/20 0:30	83	0.18	1.5
05/19/20 1:00	93	0.21	1.5
05/19/20 1:30	62	0.14	1.5
05/19/20 2:00	49	0.11	1.5
05/19/20 2:30	41	0.09	1.5
05/19/20 3:00	48	0.11	1.5
05/19/20 3:30	46	0.10	1.5
05/19/20 4:00	61	0.14	1.5
05/19/20 4:30	143	0.32	1.5
05/19/20 5:00	125	0.28	1.5
05/19/20 5:30	90	0.20	1.5
05/19/20 6:00	76	0.17	1.5
05/19/20 6:30	73	0.16	1.5
05/19/20 7:00	74	0.16	1.5
05/19/20 7:30	77	0.17	1.5
05/19/20 8:00	63	0.14	1.5
05/19/20 8:30	67	0.15	1.5
05/19/20 9:00	58	0.13	1.5
05/19/20 9:30	61	0.14	1.5
05/19/20 10:00	55	0.12	1.5
05/19/20 10:30	56	0.12	1.5
05/19/20 11:00	49	0.11	1.6
05/19/20 11:30	49	0.11	1.6
05/19/20 12:00	48	0.11	1.6
05/19/20 12:30	46	0.10	1.6
05/19/20 13:00	52	0.12	1.6
05/19/20 13:30	51	0.11	1.6
05/19/20 14:00	45	0.10	1.6
05/19/20 14:30	45	0.10	1.6
05/19/20 15:00	47	0.10	1.6
05/19/20 15:30	45	0.10	1.6
05/19/20 17:00	47	0.10	1.6
05/19/20 17:30	51	0.11	1.6
05/19/20 18:00	57	0.13	1.6
05/19/20 18:30	66	0.15	1.6
05/19/20 19:00	56	0.13	1.6

TABLE ATT1-3

Geosyntec Consultants of NC, P.C.

**HISTORICAL SEEP C FLUME DATA - Q2 2020 WET WEATHER EVENTS**

**Chemours Fayetteville Works, North Carolina**

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
05/19/20 19:30	63	0.14	1.6
05/19/20 20:00	57	0.13	1.6
05/19/20 20:30	67	0.15	1.7
05/19/20 21:00	61	0.14	1.7
05/19/20 21:30	72	0.16	1.7
05/19/20 22:00	58	0.13	1.7
05/19/20 22:30	65	0.15	1.7
05/19/20 23:00	55	0.12	1.7
05/19/20 23:30	61	0.14	1.7
05/20/20 0:00	55	0.12	1.7
05/20/20 0:30	49	0.11	1.7
05/20/20 1:00	53	0.12	1.7
05/20/20 1:30	60	0.13	1.7
05/20/20 2:00	48	0.11	1.7
05/20/20 2:30	38	0.08	1.8
05/20/20 3:00	47	0.11	1.8
05/20/20 3:30	43	0.10	1.8
05/20/20 4:00	55	0.12	1.8
05/20/20 4:30	60	0.13	1.8
05/20/20 5:00	58	0.13	1.8
05/20/20 5:30	69	0.15	1.8
05/20/20 6:00	70	0.16	1.8
05/20/20 6:30	76	0.17	1.8
05/20/20 7:00	46	0.10	1.8
05/20/20 7:30	44	0.10	1.9
05/20/20 8:00	52	0.12	1.9
05/20/20 8:30	52	0.12	1.9
05/20/20 9:00	50	0.11	1.9
05/20/20 9:30	54	0.12	1.9
05/20/20 10:00	61	0.14	1.9
05/20/20 10:30	68	0.15	1.9
05/20/20 11:00	48	0.11	1.9
05/20/20 11:30	50	0.11	1.9
05/20/20 12:00	50	0.11	2.0
05/20/20 12:30	53	0.12	2.0
05/20/20 13:00	47	0.10	2.0
05/20/20 13:30	46	0.10	2.0
05/20/20 14:00	34	0.08	2.0
05/20/20 14:30	28	0.06	2.0
05/20/20 15:00	39	0.09	2.0
05/20/20 15:30	34	0.08	2.0
05/20/20 17:00	38	0.08	2.0
05/20/20 17:30	36	0.08	2.0
05/20/20 18:00	51	0.11	2.1
05/20/20 18:30	91	0.20	2.1
05/20/20 19:00	119	0.26	2.1
05/20/20 19:30	164	0.37	2.1
05/20/20 20:00	259	0.58	2.1
05/20/20 21:00	650	1.45	2.1
05/20/20 21:30	350	0.78	2.1

TABLE ATT1-3

Geosyntec Consultants of NC, P.C.

**HISTORICAL SEEP C FLUME DATA - Q2 2020 WET WEATHER EVENTS****Chemours Fayetteville Works, North Carolina**

<b>Date and Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Rate (ft<sup>3</sup>/s)</b>	<b>Gage Height (ft)</b>
05/20/20 22:00	414	0.92	2.1
05/20/20 23:00	560	1.25	2.1
05/20/20 23:30	352	0.78	2.1
05/21/20 0:00	313	0.70	2.1
05/21/20 0:30	252	0.56	2.1
05/21/20 1:00	203	0.45	2.1
05/21/20 1:30	206	0.46	2.2
05/21/20 2:00	231	0.51	2.2
05/21/20 2:30	212	0.47	2.2
05/21/20 3:00	269	0.60	2.3
05/21/20 3:30	272	0.60	2.3
05/21/20 4:00	228	0.51	2.4
05/21/20 4:30	186	0.41	2.4
05/21/20 5:00	200	0.44	2.5
05/21/20 5:30	198	0.44	2.6
05/21/20 6:00	174	0.39	2.7
05/21/20 6:30	180	0.40	2.7
05/21/20 7:00	149	0.33	2.8
05/21/20 7:30	158	0.35	2.9
05/21/20 8:00	162	0.36	3.0
05/21/20 8:30	164	0.36	3.1
05/21/20 9:00	119	0.27	3.1
05/21/20 9:30	119	0.26	3.2
05/21/20 10:00	121	0.27	3.3
05/21/20 10:30	120	0.27	3.4
<b>Median Flow Rate</b>	55.9	0.1	

**Notes**

Measurements are recorded from the flume at Seep C.

ft<sup>3</sup>/sec - cubic feet per second

ft - feet

gpm - gallons per minute

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

Geosyntec Consultants of NC, P.C.

<b>Date/Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Volume<sup>1</sup> (gal)</b>
04/19/22 2:57	89.8	1,346
04/19/22 3:12	106.2	1,593
04/19/22 3:27	101.6	1,523
04/19/22 3:42	85.4	1,280
04/19/22 3:57	127.5	1,913
04/19/22 4:12	95.1	1,427
04/19/22 4:27	96.5	1,448
04/19/22 4:42	108.6	1,629
04/19/22 4:57	102.0	1,530
04/19/22 5:12	106.7	1,600
04/19/22 5:27	120.6	1,809
04/19/22 5:42	116.2	1,743
04/19/22 5:57	95.6	1,434
04/19/22 6:12	112.9	1,693
04/19/22 6:27	117.7	1,765
04/19/22 6:42	103.4	1,551
04/19/22 6:57	87.1	1,307
04/19/22 7:12	110.5	1,657
04/19/22 7:27	107.2	1,607
04/19/22 7:42	83.6	1,254
04/19/22 7:57	67.3	1,009
04/19/22 8:12	112.4	1,686
04/19/22 8:27	98.3	1,475
04/19/22 8:42	89.3	1,340
04/19/22 8:57	93.8	1,407
04/19/22 9:12	105.3	1,579
04/19/22 9:27	94.2	1,414
04/19/22 9:42	90.2	1,353
04/19/22 9:57	88.4	1,327
04/19/22 10:12	92.4	1,387
04/19/22 10:27	85.4	1,280
04/19/22 10:42	85.8	1,287
04/19/22 10:57	89.8	1,346
04/19/22 11:12	73.4	1,101
04/19/22 11:27	84.5	1,267
04/19/22 11:42	75.5	1,133
04/19/22 11:57	80.6	1,209
04/19/22 12:12	90.2	1,353
04/19/22 12:27	90.7	1,360
04/19/22 12:42	73.0	1,095
04/19/22 12:57	95.1	1,427
04/19/22 13:12	65.7	985

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

Geosyntec Consultants of NC, P.C.

<b>Date/Time</b>	<b>Flow Rate (gpm)</b>	<b>Flow Volume<sup>1</sup> (gal)</b>
04/19/22 13:27	88.9	1,333
04/19/22 13:42	98.8	1,482
04/19/22 13:57	84.9	1,274
04/19/22 14:12	97.4	1,461
04/19/22 14:27	93.3	1,400
04/19/22 14:42	80.6	1,209
04/19/22 14:57	95.1	1,427
04/19/22 15:12	78.9	1,183
04/19/22 15:27	105.7	1,586
04/19/22 15:42	85.4	1,280
04/19/22 15:57	103.9	1,558
04/19/22 16:12	115.7	1,736
04/19/22 16:27	114.3	1,714
04/19/22 16:42	105.7	1,586
04/19/22 16:57	103.4	1,551
04/19/22 17:12	102.9	1,544
04/19/22 17:27	117.7	1,765
04/19/22 17:42	118.2	1,772
04/19/22 17:57	120.1	1,802
04/19/22 18:12	115.3	1,729
04/19/22 18:27	118.6	1,780
04/19/22 18:42	118.6	1,780
04/19/22 18:57	116.7	1,751
04/19/22 19:12	112.4	1,686
04/19/22 19:27	127.0	1,905
04/19/22 19:42	109.5	1,643
04/19/22 19:57	110.9	1,664
04/19/22 20:12	124.0	1,861
04/19/22 20:27	103.9	1,558
04/19/22 20:42	109.0	1,636
04/19/22 20:57	108.6	1,629
04/19/22 21:12	110.5	1,657
04/19/22 21:27	111.4	1,671
04/19/22 21:42	99.3	1,489
04/19/22 21:57	117.7	1,765
04/19/22 22:12	112.9	1,693
04/19/22 22:27	100.6	1,509
04/19/22 22:42	117.7	1,765
04/19/22 22:57	114.8	1,722
04/19/22 23:12	109.0	1,636
04/19/22 23:27	119.6	1,794
04/19/22 23:42	102.5	1,537



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

Geosyntec Consultants of NC, P.C.

Date/Time	Flow Rate (gpm)	Flow Volume <sup>1</sup> (gal)
04/19/22 23:57	116.7	1,751
04/20/22 0:12	93.3	1,400
04/20/22 0:27	103.4	1,551
04/20/22 0:42	97.9	1,468
04/20/22 0:57	105.3	1,579
04/20/22 1:12	101.1	1,516
04/20/22 1:27	111.4	1,671
04/20/22 1:42	99.3	1,489
04/20/22 1:57	119.6	1,794
<b>Total</b>		141,674

Acronyms:

gal - gallons

gpm - gallons per minute

FTC - Flow Through Cell

1 - Flow volumes are calculated as the total volume of flow passing through the Flow through cell (FTC) for the duration of the interval (15 mins). Where the interval duration is calculated as the time between the present recording and the previous recording.

**TABLE ATT1-5**  
**OLD OUTFALL 002 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 <sup>2</sup>	Measured Creek Velocity	Cell Velocity	Calculated Discharge Through Creek Cell Area <sup>1</sup>
	(ft)	(ft)	(ft <sup>2</sup> )	(ft/s)	(ft/s)	(ft <sup>3</sup> /s)
South Bank	0	0.00	0.04	0.00	0.60	0.02
B (Too shallow for multiple readings)	0.5	0.15	0.09	1.20	1.21	0.11
B	1	0.20	0.11	1.13	1.25	0.14
T	1	0.00		1.30		
B	1.5	0.25	0.13	1.25	1.23	0.15
T	1.5	0.00		1.30		
B	2	0.25	0.13	1.04	1.12	0.14
T	2	0.00		1.31		
B	2.5	0.25	0.13	1.01	1.15	0.14
T	2.5	0.00		1.11		
B	3	0.25	0.11	1.21	1.17	0.13
T	3	0.00		1.25		
B	3.5	0.20	0.05	1.01	0.55	0.03
T	3.5	0.00		1.20		
North Bank	4	0.00		0.00		
<b>Total Volumetric Discharge</b>						
(ft <sup>3</sup> /s)						0.9
(gpm)						387
(L/s)						24

**Associated Measurement Notes**

Location: Chemours Fayetteville  
 Station: OLD OF-1  
 Date: April 26, 2022

**Acronyms**

-- data not measured or calculated  
 ft - feet  
 ft<sup>2</sup> - square feet  
 ft<sup>3</sup>/s - cubic feet per second  
 gpm - gallons per minute  
 L/s - liters per second

**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 <sup>2</sup>	Measured Creek Velocity	Cell Velocity	Calculated Discharge Through Creek Cell Area <sup>1</sup>	
	(ft)	(ft)	(ft <sup>2</sup> )	(ft/s)	(ft/s)	(ft <sup>3</sup> /s)	
South Bank	0	0.00	1.00	0.00	0.21	0.21	
B	4	0.50	1.30	0.41	0.49	0.64	
M	4	0.25		0.55			
T	4	0.00		0.57			
B (To shallow for multiple readings)	8	0.15	1.10	0.29	0.44	0.48	
B	12	0.40	2.00	0.58	0.69	1.37	
M	12	0.20		0.69			
T	12	0.00		0.74			
B	16	0.60	1.70	0.51	0.40	0.68	
M	16	0.30		0.68			
T	16	0.00		0.84			
B (To shallow for multiple readings)	20	0.25	1.90	0.11	0.13	0.24	
B	24	0.70	1.80	0.14	0.11	0.19	
M	24	0.35		0.17			
T	24	0.00		0.25			
B (To shallow for multiple readings)	28	0.20	0.10	0.09	0.05	0.00	
North Bank	29	0.00		0.00			
<b>Total Volumetric Discharge</b>							
						(ft <sup>3</sup> /s)	3.8
						(gpm)	1,712
						(L/s)	108

**Associated Measurement Notes**

Location: Chemours Fayetteville  
 Station: Willis Creek 01 (SW-WC-01)  
 Date: April 26, 2022

**Acronyms**

-- data not measured or calculated  
 ft - feet  
 ft<sup>2</sup> - square feet  
 ft<sup>3</sup>/s - cubic feet per second  
 gpm - gallons per minute  
 L/s - liters per second

**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 <sup>2</sup>	Measured Creek Velocity	Cell Velocity	Calculated Discharge Through Creek Cell Area <sup>1</sup>
	(ft)	(ft)	(ft <sup>2</sup> )	(ft/s)	(ft/s)	(ft <sup>3</sup> /s)
West Bank	0	0.00	1.20	0.00	0.12	0.14
B	3	0.80	2.25	0.23	0.46	1.02
M	3	0.40		0.35		
T	3	0.00		0.36		
B	6	0.70	1.95	0.45	0.35	0.67
M	6	0.35		0.56		
T	6	0.00		0.50		
B	9	0.60	2.55	0.13	0.16	0.40
M	9	0.30		0.13		
T	9	0.00		0.20		
B	12	1.10	3.75	0.14	0.30	1.13
M	12	0.55		0.18		
T	12	0.00		0.30		
B	15	1.40	1.40	0.07	0.21	0.29
M	15	0.70		0.42		
T	15	0.00		0.70		
East Bank	17	0.00		0.00		
<b>Total Volumetric Discharge</b>						
(ft <sup>3</sup> /s)						3.6
(gpm)						1,638
(L/s)						103

**Associated Measurement Notes**

Location: Chemours Fayetteville  
 Station: Georgia Branch 01 (SW-GB-01)  
 Date: April 19, 2022

**Acronyms**

-- data not measured or calculated  
 ft - feet  
 ft<sup>2</sup> - square feet  
 ft<sup>3</sup>/s - cubic feet per second  
 gpm - gallons per minute  
 L/s - liters per second

**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.

<b>Q2 2022 Monthly Event</b>	<b>Date</b>	<b>Outfall 002 Flow (MGD)</b>	<b>Total Daily Volume (gal)</b>	<b>Hours of Sample Collection</b>	<b>Approximate Total Volume during 24 hour Sample Collection (gal)</b>
April 2022 <sup>1</sup>	04/19/22	13.8	13,786,000	21.4	12,292,517
	04/20/22	14.5	14,523,000	1.6	968,200
	04/19/22 2:36:00 AM to 04/20/22 1:36:00 AM			23	13,260,717

**Notes:**

Daily flow rates collected from facility Discharge Monitoring Reports.

1 - Total flow volume for 24-hour temporal composite sample collected at 1:36 AM on 04/20/22 approximated based on flow rates for 04/19/22 and 04/20/22.

**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**

<b>Q2 2022 Monthly Event</b>	<b>Pathway/ Location</b>	<b>Sample Collection Timepoint</b>	<b>Flow Gauging Location<sup>1</sup></b>	<b>Grab Sample Instantaneous Flow Rate (ft<sup>3</sup>/s)<sup>2</sup></b>
April 2022	Upstream River Water and Groundwater	04/19/22 10:30	William O Huske Lock and Dam	2,620

**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:**

ft<sup>3</sup>/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**

Geosyntec Consultants of NC, P.C.

<b>Q2 2022 Monthly Event</b>	<b>Date</b>	<b>Intake Flow River Water Total Daily Flow Average (gpm)</b>	<b>Total Daily Volume (gal)</b>	<b>Hours of Sample Collection</b>	<b>Approximate Total Volume during 24 hour Sample Collection (gal)</b>
April 2022 <sup>1</sup>	04/19/22	8,226	11,845,243	22.9	11,302,336
	04/20/22	8,581	12,356,903	0.10	51,487
	04/19/22 1:06:00 AM to 04/20/22 12:06:00 AM			23.0	11,353,824

**Notes:**

Daily flow rates collected from facility Discharge Monitoring Reports.

1 - Total flow volume for 24-hour temporal composite sample collected at 12:06 am on 04/20/22 approximated based on flow rates for 04/19/22 and 04/20/22.

**Acronyms:**

gal - gallons

gpm - gallons per minute

**TABLE ATT1-11  
CAPE FEAR RIVER TOTAL PFAS RELATIVE  
MASS DISCHARGE PER PATHWAY  
Chemours Fayetteville Works, North Carolina**

Pathway <sup>1</sup>	April 2022			
	Total Attachment C <sup>2</sup>		Total Table 3+ (20 Compounds)	
	Lower	Upper	Lower	Upper
[1] Upstream River Water and Groundwater	<1%	<1%	5%	5%
[2] Willis Creek	4%	4%	4%	4%
[3] Aerial Deposition on Water Features	<1%	<1%	<1%	<1%
[4] Outfall 002	<1%	<1%	<1%	<1%
<i>Outfall 002 (After Remedies)</i>	-- <sup>3</sup>	-- <sup>3</sup>	-- <sup>3</sup>	-- <sup>3</sup>
[5] Onsite Groundwater	34%	37%	30%	34%
[6] Seeps	49%	46%	47%	45%
<i>Seeps (After Remedies)<sup>4</sup></i>	1%	1%	<1%	<1%
[7] Old Outfall 002	11%	10%	9%	9%
<i>Old Outfall 002 (After Remedies)<sup>5</sup></i>	<1%	<1%	<1%	<1%
[8] Offsite Adjacent and Downstream Groundwater	<1%	<1%	2%	2%
[9] Georgia Branch Creek	2%	2%	1%	1%

**Notes:**

< - less than indicated value.

1 - Relative contributions were calculated using the before remedies Total Attachment C and Total Table 3+ (20 compounds) model-estimated mass discharges (Tables A10-1). These relative contributions are presented as a range, which represents the upper and lower bound model estimates.

2 - Mass discharge calculations for Total Attachment C does not include Perfluoroheptanoic acid (PFHpA).

3 - The Outfall 002 (After Remedies) relative contributions are calculated using the After Remedies model-estimated mass discharge at the Stormwater Treatment System. The Stormwater Treatment System treats stormwater flows in the conveyance network surrounding the Monomers/IXM area that would otherwise flow to Outfall 002 during storm events. During the April Sampling Events there was no stormwater flow to the stormwater treatment system; therefore was no relative contribution from Outfall 002 (After remedies).

4 - The Seeps (After Remedies) relative contributions for April 2022 were calculated using the After Remedies model-estimated mass discharges at Seeps A to D, and Lock and Dam Seep (Tables A10-2).

5 - The Old Outfall 002 (After Remedies) relative contributions for April 2022 were calculated using the After Remedies model-estimated mass discharges at Old Outfall 002 (Tables A10-2).



**TABLE ATT1-12**  
**SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS**  
**Chemours Fayetteville Works, North Carolina**

<b>Location ID</b>	<b>CFR-BLADEN</b>	<b>CFR-KINGS</b>	<b>CFR-MILE-76</b>	<b>CFR-TARHEEL</b>	<b>CFR-TARHEEL</b>
<b>Field Sample ID</b>	<b>CAP2Q22-CFR-BLADEN-041922</b>	<b>CAP2Q22-CFR-KINGS-042122</b>	<b>CAP2Q22-CFR-RM-76-041922</b>	<b>CAP2Q22-CFR-TARHEEL-041922</b>	<b>CAP2Q22-CFR-TARHEEL-24-042022</b>
<b>Sample Date</b>	<b>04/19/22</b>	<b>04/21/22</b>	<b>04/19/22</b>	<b>04/19/22</b>	<b>04/20/22</b>
<b>QA/QC</b>					
<b>Sample Delivery Group (SDG)</b>	<b>320-87040-1</b>	<b>320-87069-1</b>	<b>320-87040-1</b>	<b>320-87040-1</b>	<b>320-87069-1</b>
<b>Lab Sample ID</b>	<b>320-87040-3</b>	<b>320-87069-1</b>	<b>320-87040-2</b>	<b>320-87040-4</b>	<b>320-87069-2</b>
<b>537 Mod (ng/L)</b>					
Perfluorobutanoic Acid	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<b>7.0</b>	<b>6.9</b>	<b>7.0</b>	<b>7.1</b>	<b>7.2</b>
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	<b>8.3</b>	<b>9.1</b>	<b>7.6</b>	<b>7.8</b>	<b>8.6</b>
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
PFOA	<b>6.3</b>	<b>6.4</b>	<b>6.4</b>	<b>5.8</b>	<b>6.1</b>

**TABLE ATT1-12  
SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

<b>Location ID</b>	<b>GBC-1</b>	<b>Lock-Dam Seep</b>	<b>OLDOF-1</b>	<b>OUTFALL 002</b>	<b>RIVER WATER INTAKE 2</b>
<b>Field Sample ID</b>	<b>CAP2Q22-GBC-1-041922</b>	<b>CAP2Q22-LOCK-DAM-SEEP-041922</b>	<b>CAP2Q22-OLDOF-1-24-042622</b>	<b>CAP2Q22-OUTFALL-002-24-042022</b>	<b>RIVER-WATER-INTAKE2-24-042022</b>
<b>Sample Date</b>	<b>04/19/22</b>	<b>04/19/22</b>	<b>04/26/22</b>	<b>04/20/22</b>	<b>04/20/22</b>
<b>QA/QC</b>					
<b>Sample Delivery Group (SDG)</b>	<b>320-87040-1</b>	<b>320-87040-1</b>	<b>320-87316-1</b>	<b>320-87040-1</b>	<b>320-87040-1</b>
<b>Lab Sample ID</b>	<b>320-87040-5</b>	<b>320-87040-1</b>	<b>320-87316-2</b>	<b>320-87040-7</b>	<b>320-87040-8</b>
<b>537 Mod (ng/L)</b>					
Perfluorobutanoic Acid	<b>8.4</b>	<b>69</b>	<5.0	<b>5.8</b>	<b>7.1</b>
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<b>2.7</b>	<b>16</b>	<2.0	<b>6.9</b>	<b>6.8</b>
Perfluorononanoic Acid	<2.0	<b>2.1</b>	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0	<2.0	<2.0 UJ	<2.0	<2.0
Perfluoropentanoic Acid	<b>8.4</b>	<b>470</b>	<b>7.3</b>	<b>8.0</b>	<b>8.1</b>
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
PFOA	<b>3.2</b>	<b>12</b>	<2.0	<b>6.5</b>	<b>5.9</b>

**TABLE ATT1-12  
SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

<b>Location ID</b>	<b>SEEP-A-EFF</b>	<b>SEEP-B-EFF</b>	<b>SEEP-C-EFF</b>	<b>SEEP-D-EFF</b>	<b>SEEP-D-EFF</b>
<b>Field Sample ID</b>	<b>CAP2Q22-SEEP-A-EFF-24-042022</b>	<b>CAP2Q22-SEEP-B-EFF-24-042022</b>	<b>CAP2Q22-SEEP-C-EFF-24-042022</b>	<b>CAP2Q22-SEEP-D-EFF-24-042022</b>	<b>CAP2Q22-SEEP-D-EFF-24-042022-D</b>
<b>Sample Date</b>	<b>04/20/22</b>	<b>04/20/22</b>	<b>04/20/22</b>	<b>04/20/22</b>	<b>04/20/22</b>
<b>QA/QC</b>					<b>Field Duplicate</b>
<b>Sample Delivery Group (SDG)</b>	<b>320-87042-1</b>	<b>320-87042-1</b>	<b>320-87042-1</b>	<b>320-87042-1</b>	<b>320-87042-1</b>
<b>Lab Sample ID</b>	<b>320-87042-1</b>	<b>320-87042-2</b>	<b>320-87042-3</b>	<b>320-87042-4</b>	<b>320-87042-5</b>
<b>537 Mod (ng/L)</b>					
Perfluorobutanoic Acid	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
PFOA	<2.0	<2.0	<2.0	<2.0	<2.0

**TABLE ATT1-12  
SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Location ID	WC-1	EB	EB	FBLK
Field Sample ID	CAP2Q22-WC-1-24-042622	CAP2Q22-EQBLK-PP-041922	CAP2Q22-EQBLK-IS-042022	CAP2Q22-FBLK-042022
Sample Date	04/26/22	04/19/22	04/20/22	04/20/22
QA/QC		Equipment Blank	Equipment Blank	Field Blank
Sample Delivery Group (SDG)	320-87316-1	320-87040-1	320-87042-1	320-87042-1
Lab Sample ID	320-87316-1	320-87040-6	320-87042-6	320-87042-7
<b>537 Mod (ng/L)</b>				
Perfluorobutanoic Acid	<b>7.2</b>	<5.0	<5.0	<5.0
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<b>3.7</b>	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0 UJ	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	<b>12</b>	<2.0	<2.0	<2.0
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0
PFOA	<b>8.3</b>	<2.0	<2.0	<2.0

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

**TABLE ATT1-13  
GROUNDWATER OTHER PFAS ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

<b>Water Bearing Unit<sup>1</sup></b>	<b>Black Creek Aquifer</b>	<b>Floodplain Deposits</b>	<b>Black Creek Aquifer</b>	<b>Floodplain Deposits</b>
<b>Location ID</b>	<b>EW-3</b>	<b>LTW-01</b>	<b>LTW-02</b>	<b>LTW-03</b>
<b>Field Sample ID</b>	<b>CAP2Q22-EW-3-042722</b>	<b>CAP2Q22-LTW-01-041422</b>	<b>CAP2Q22-LTW-02-041522</b>	<b>CAP2Q22-LTW-03-042622</b>
<b>Sample Date</b>	<b>04/27/22</b>	<b>04/14/22</b>	<b>04/15/22</b>	<b>04/26/22</b>
<b>QA/QC</b>				
<b>Sample Delivery Group (SDG)</b>	<b>320-87314-1</b>	<b>320-87044-1</b>	<b>320-87044-1</b>	<b>320-87314-1</b>
<b>Lab Sample ID</b>	<b>320-87314-7</b>	<b>320-87044-5</b>	<b>320-87044-6</b>	<b>320-87314-3</b>
<b>537 Mod (ng/L)</b>				
Perfluorobutanoic Acid	<b>140</b>	<b>110</b>	<b>34</b>	<b>160</b>
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<b>35</b>	<b>23</b>	<b>4.9</b>	<b>13</b>
Perfluorononanoic Acid	<2.0	<b>2.5</b>	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0	<2.0	<2.0	<2.0 UJ
Perfluoropentanoic Acid	<b>520</b>	<b>270</b>	<b>150</b>	<b>700</b>
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0
PFOA	<b>4.2</b>	<b>57</b>	<2.0	<2.0

**TABLE ATT1-13**  
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**  
**Chemours Fayetteville Works, North Carolina**

<b>Water Bearing Unit<sup>1</sup></b>	<b>Floodplain Deposits</b>	<b>Black Creek Aquifer</b>	<b>Black Creek Aquifer</b>	<b>Floodplain Deposits</b>
<b>Location ID</b>	<b>LTW-04</b>	<b>LTW-05</b>	<b>PIW-1D</b>	<b>PIW-1S</b>
<b>Field Sample ID</b>	<b>CAP2Q22-LTW-04-041322</b>	<b>CAP2Q22-LTW-05-042622</b>	<b>CAP2Q22-PIW-1D-041222</b>	<b>CAP2Q22-PIW-1S-041222</b>
<b>Sample Date</b>	<b>04/13/22</b>	<b>04/26/22</b>	<b>04/12/22</b>	<b>04/12/22</b>
<b>QA/QC</b>				
<b>Sample Delivery Group (SDG)</b>	<b>320-87044-1</b>	<b>320-87314-1</b>	<b>320-86778-1</b>	<b>320-87044-1</b>
<b>Lab Sample ID</b>	<b>320-87044-7</b>	<b>320-87314-4</b>	<b>320-86778-6</b>	<b>320-87044-3</b>
<b>537 Mod (ng/L)</b>				
Perfluorobutanoic Acid	<b>420</b>	<b>170</b>	<b>100</b>	<b>81</b>
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<b>2.7</b>
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<b>35</b>	<b>33</b>	<b>9.1</b>	<b>13</b>
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<b>7.3</b>
Perfluorooctadecanoic Acid	<2.0	<2.0 UJ	<2.0 UJ	<2.0
Perfluoropentanoic Acid	<b>1,400</b>	<b>1,300</b>	<b>160</b>	<b>160</b>
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0
PFOA	<b>8.3</b>	<b>3.4</b>	<b>18</b>	<b>24</b>

**TABLE ATT1-13  
GROUNDWATER OTHER PFAS ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

<b>Water Bearing Unit<sup>1</sup></b>	<b>Floodplain Deposits</b>	<b>Black Creek Aquifer</b>	<b>Black Creek Aquifer</b>	<b>Floodplain Deposits</b>
<b>Location ID</b>	<b>PIW-1S</b>	<b>PIW-3D</b>	<b>PIW-7D</b>	<b>PIW-7S</b>
<b>Field Sample ID</b>	<b>CAP2Q22-PIW-1S-041222-Z</b>	<b>CAP2Q22-PIW-3D-041422</b>	<b>CAP2Q22-PIW-7D-042622</b>	<b>CAP2Q22-PIW-7S-042622</b>
<b>Sample Date</b>	<b>04/12/22</b>	<b>04/14/22</b>	<b>04/26/22</b>	<b>04/26/22</b>
<b>QA/QC</b>				
<b>Sample Delivery Group (SDG)</b>	<b>320-87044-1</b>	<b>320-87044-1</b>	<b>320-87314-1</b>	<b>320-87314-1</b>
<b>Lab Sample ID</b>	<b>320-87044-4</b>	<b>320-87044-8</b>	<b>320-87314-2</b>	<b>320-87314-1</b>
<b>537 Mod (ng/L)</b>				
Perfluorobutanoic Acid	<b>79</b>	<b>71</b>	<b>250</b>	<b>97</b>
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<b>13</b>	<b>17</b>	<b>38</b>	<b>13</b>
Perfluorononanoic Acid	<b>4.6</b>	<b>4.6</b>	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0	<2.0	<2.0 UJ	<2.0 UJ
Perfluoropentanoic Acid	<b>150</b>	<b>140</b>	<b>1,400</b>	<b>300</b>
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0
PFOA	<b>20</b>	<b>36</b>	<b>3.6</b>	<b>7.1</b>

**TABLE ATT1-13  
GROUNDWATER OTHER PFAS ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

<b>Water Bearing Unit<sup>1</sup></b>	<b>Surficial Aquifer</b>	<b>Surficial Aquifer</b>	<b>Surficial Aquifer</b>	<b>Surficial Aquifer</b>
<b>Location ID</b>	<b>PW-04</b>	<b>PW-04</b>	<b>PW-06</b>	<b>PW-06</b>
<b>Field Sample ID</b>	<b>CAP2Q22-PW-04-041522</b>	<b>CAP2Q22-PW-04-041522-Z</b>	<b>CAP2Q22-PW-06-041122</b>	<b>CAP2Q22-PW-06-041122-D</b>
<b>Sample Date</b>	<b>04/15/22</b>	<b>04/15/22</b>	<b>04/11/22</b>	<b>04/11/22</b>
<b>QA/QC</b>				<b>Field Duplicate</b>
<b>Sample Delivery Group (SDG)</b>	<b>320-87044-1</b>	<b>320-87044-1</b>	<b>320-86778-1</b>	<b>320-86778-1</b>
<b>Lab Sample ID</b>	<b>320-87044-1</b>	<b>320-87044-2</b>	<b>320-86778-1</b>	<b>320-86778-2</b>
<b>537 Mod (ng/L)</b>				
Perfluorobutanoic Acid	<b>9.7</b>	<b>11</b>	<b>17</b>	<b>17</b>
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<b>3.1</b>	<b>3.2</b>	<b>4.5</b>	<b>4.4</b>
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0	<2.0	<2.0 UJ	<2.0 UJ
Perfluoropentanoic Acid	<b>20</b>	<b>23</b>	<b>21</b>	<b>19</b>
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0
PFOA	<2.0	<2.0	<b>9.5</b>	<b>10</b>



**TABLE ATT1-13  
GROUNDWATER OTHER PFAS ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

<b>Water Bearing Unit<sup>1</sup></b>	<b>Black Creek Aquifer</b>	<b>Black Creek Aquifer</b>	<b>Black Creek Aquifer</b>	<b>Surficial Aquifer</b>
<b>Location ID</b>	<b>PW-09</b>	<b>PW-09</b>	<b>PZ-22</b>	<b>SMW-10</b>
<b>Field Sample ID</b>	<b>CAP2Q22-PW-09-042822</b>	<b>CAP2Q22-PW-09-042822-Z</b>	<b>CAP2Q22-PZ-22-041322</b>	<b>CAP2Q22-SMW-10-041122</b>
<b>Sample Date</b>	<b>04/28/22</b>	<b>04/28/22</b>	<b>04/13/22</b>	<b>04/11/22</b>
<b>QA/QC</b>				
<b>Sample Delivery Group (SDG)</b>	<b>320-87314-1</b>	<b>320-87314-1</b>	<b>320-87044-1</b>	<b>320-86778-1</b>
<b>Lab Sample ID</b>	<b>320-87314-8</b>	<b>320-87314-9</b>	<b>320-87044-9</b>	<b>320-86778-3</b>
<b>537 Mod (ng/L)</b>				
Perfluorobutanoic Acid	<5.0	<5.0	<b>120</b>	<5.0
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<2.0	<2.0	<b>13</b>	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0	<2.0	<2.0	<2.0 UJ
Perfluoropentanoic Acid	<2.0	<2.0	<b>1,000</b>	<2.0
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0
PFOA	<2.0	<2.0	<2.0	<2.0

**TABLE ATT1-13  
GROUNDWATER OTHER PFAS ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

<b>Water Bearing Unit<sup>1</sup></b>	<b>Surficial Aquifer</b>	<b>Black Creek Aquifer</b>	<b>--</b>
<b>Location ID</b>	<b>SMW-11</b>	<b>SMW-12</b>	<b>EB</b>
<b>Field Sample ID</b>	<b>CAP2Q22-SMW-11-041222</b>	<b>CAP2Q22-SMW-12-042722</b>	<b>CAP2Q22-EQBLK-PP-041122</b>
<b>Sample Date</b>	<b>04/12/22</b>	<b>04/27/22</b>	<b>04/11/22</b>
<b>QA/QC</b>			<b>Equipment Blank</b>
<b>Sample Delivery Group (SDG)</b>	<b>320-86778-1</b>	<b>320-87314-1</b>	<b>320-86778-1</b>
<b>Lab Sample ID</b>	<b>320-86778-7</b>	<b>320-87314-6</b>	<b>320-86778-5</b>
<b>537 Mod (ng/L)</b>			
Perfluorobutanoic Acid	<b>30</b>	<b>20</b>	<5.0
Perfluorodecanoic Acid	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<b>10</b>	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0 UJ	<2.0	<2.0 UJ
Perfluoropentanoic Acid	<b>42</b>	<b>46</b>	<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	<b>89</b>	<2.0	<2.0

**TABLE ATT1-13  
GROUNDWATER OTHER PFAS ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

<b>Water Bearing Unit<sup>1</sup></b>	--	--
<b>Location ID</b>	<b>EB</b>	<b>FBLK</b>
<b>Field Sample ID</b>	<b>CAP2Q22-EQBLK-DV-042722</b>	<b>CAP2Q22-FBLK-041122</b>
<b>Sample Date</b>	<b>04/27/22</b>	<b>04/11/22</b>
<b>QA/QC</b>	<b>Equipment Blank</b>	<b>Field Blank</b>
<b>Sample Delivery Group (SDG)</b>	<b>320-87314-1</b>	<b>320-86778-1</b>
<b>Lab Sample ID</b>	<b>320-87314-5</b>	<b>320-86778-4</b>
<b>537 Mod (ng/L)</b>		
Perfluorobutanoic Acid	<5.0	<5.0
Perfluorodecanoic Acid	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0
Perfluorohexanoic Acid	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0	<2.0 UJ
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

**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.

**B** - analyte detected in an associated blank

**EPA** - Environmental Protection Agency

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

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 UPGRADIENT OF REMEDIES (BEFORE REMEDIES)  
Chemours Fayetteville Works, North Carolina**

Pathway Number <sup>1</sup>	1	2	4	4A
Pathway Name	Upstream River Water and Groundwater	Willis Creek	Outfall 002 <sup>3</sup>	Stormwater Treatment System <sup>4</sup>
Flow (MG)	2319	2.5	13.3	--
Program	CAP SW Sampling 2Q22	CAP SW Sampling 2Q22	CAP SW Sampling 2Q22	STS Compliance Sampling
Location ID	CFR-MILE-76	WC-1	OUTFALL 002	STS INFLUENT
Field Sample ID	CAP2Q22-CFR-RM-76-041922	CAP2Q22-WC-1-24-042622	CAP2Q22-OUTFALL-002-24-042022	--
Sample Date and Time <sup>2</sup>	04/19/22	04/26/22	04/20/22	--
Sample Delivery Group (SDG)	320-87040-1	320-87316-1	320-87040-1	--
Lab Sample ID	320-87040-2	320-87316-1	320-87040-7	--
Sample Type	Grab	Composite	Composite	--
<i>Table 3+ Lab SOP Mass Discharge<sup>7</sup> (mg/s)</i>				
HFPO-DA	ND	0.06	0.02	--
PFMOAA	ND	0.12	ND	--
PFO2HxA	ND	0.07	1.6E-03	--
PFO3OA	ND	0.01	ND	--
PFO4DA	ND	2.6E-03	ND	--
PFO5DA	ND	ND	ND	--
PMPA	ND	0.06	ND	--
PEPA	ND	0.02	ND	--
PS Acid	ND	ND	ND	--
Hydro-PS Acid	ND	1.3E-03	ND	--
R-PSDA	ND	0.01	ND	--
Hydrolyzed PSDA	ND	0.03	ND	--
R-PSDCA	ND	ND	ND	--
NVHOS, Acid Form	0.50	2.5E-03	ND	--
EVE Acid	ND	ND	ND	--
Hydro-EVE Acid	ND	1.0E-03	ND	--
R-EVE	ND	2.7E-03	ND	--
PES	ND	ND	ND	--
PFECA B	ND	ND	ND	--
PFECA-G	ND	ND	ND	--
<b>Total Attachment C Mass Discharge<sup>8,9</sup></b>	ND	0.33	0.04	--
<b>Total Table 3+ Mass Discharge (17 compounds)<sup>8,10</sup></b>	0.50	0.35	0.04	--
<b>Total Table 3+ Mass Discharge (20 Compounds)<sup>8</sup></b>	0.50	0.38	0.04	--

**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY UPGRADIENT OF REMEDIES (BEFORE REMEDIES)  
Chemours Fayetteville Works, North Carolina**

Pathway Number <sup>1</sup>	5	5	6A	6B	6C
Pathway Name	Onsite Groundwater - Lower Bound <sup>5</sup>	Onsite Groundwater - Upper Bound <sup>5</sup>	Seep A	Seep B	Seep C
Flow (MG)	--	--	0.25	0.15	0.08
Program	--	--	Seep Flow Through Cell Sampling 2022	Seep Flow Through Cell Sampling 2022	Seep Flow Through Cell Sampling 2022
Location ID	--	--	SEEP-A-INF	SEEP-B-INF	SEEP-C-INF
Field Sample ID	--	--	SEEP-A-Influent-336-041522	SEEP-B-Influent-336-041522	Seep-C-Influent-336-041522
Sample Date and Time <sup>2</sup>	--	--	04/15/22	04/15/22	04/15/22
Sample Delivery Group (SDG)	--	--	320-86853-1	320-86853-1	320-86853-1
Lab Sample ID	--	--	320-86853-2	320-86853-3	320-86853-7
Sample Type	--	--	Composite	Composite	Composite
<b>Table 3+ Lab SOP Mass Discharge<sup>7</sup> (mg/s)</b>					
HFPO-DA	0.40	0.44	0.26	0.16	0.06
PFMOAA	1.41	1.75	0.74	0.64	0.13
PFO2HxA	0.56	0.65	0.36	0.21	0.06
PFO3OA	0.16	0.18	0.13	0.05	0.02
PFO4DA	0.04	0.04	0.08	0.01	7.4E-03
PFO5DA	ND	ND	0.05	1.1E-03	3.2E-04
PMPA	0.18	0.19	0.14	0.15	0.02
PEPA	0.06	0.06	0.05	0.06	0.01
PS Acid	ND	ND	0.02	2.9E-03	ND
Hydro-PS Acid	0.01	0.01	0.01	4.2E-03	9.5E-04
R-PSDA	0.02	0.02	0.02	0.02	2.1E-03
Hydrolyzed PSDA	0.06	0.06	0.26	0.15	2.4E-03
R-PSDCA	1.4E-05	2.0E-05	4.7E-04	2.0E-04	ND
NVHOS, Acid Form	0.02	0.02	0.01	0.01	1.9E-03
EVE Acid	ND	ND	2.2E-03	2.0E-03	ND
Hydro-EVE Acid	0.02	2.1E-02	0.02	0.01	3.2E-03
R-EVE	0.01	1.6E-02	0.01	0.01	2.1E-03
PES	ND	ND	ND	ND	ND
PFECA B	ND	ND	ND	ND	ND
PFECA-G	ND	ND	ND	ND	ND
<b>Total Attachment C Mass Discharge<sup>8,9</sup></b>	<b>2.79</b>	<b>3.29</b>	<b>1.84</b>	<b>1.28</b>	<b>0.30</b>
<b>Total Table 3+ Mass Discharge (17 compounds)<sup>8,10</sup></b>	<b>2.85</b>	<b>3.37</b>	<b>1.84</b>	<b>1.34</b>	<b>0.30</b>
<b>Total Table 3+ Mass Discharge (20 Compounds)<sup>8</sup></b>	<b>2.94</b>	<b>3.47</b>	<b>2.17</b>	<b>1.47</b>	<b>0.31</b>

**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY UPGRADIENT OF REMEDIES (BEFORE REMEDIES)  
Chemours Fayetteville Works, North Carolina**

Pathway Number <sup>1</sup>	6D	6E	6F	7
Pathway Name	Seep D	Lock and Dam Seep	Lock and Dam North <sup>6</sup>	Old Outfall 002
Flow (MG)	0.14	0.01	--	0.56
Program	Seep Flow Through Cell Sampling 2022	CAP SW Sampling 2Q22	CAP SW Sampling 2Q22	NPDES Sampling 4/22
Location ID	SEEP-D-INF	Lock-Dam Seep	Lock-Dam North	Old Outfall 002 Influent
Field Sample ID	Seep-D-Influent-336-041522	CAP2Q22-LOCK-DAM-SEEP-041922	--	Influent-0422-4
Sample Date and Time <sup>2</sup>	04/15/22	04/19/22	--	04/26/22
Sample Delivery Group (SDG)	320-86853-1	320-87040-1	--	410-81679-1
Lab Sample ID	320-86853-10	320-87040-1	--	410-81679-1
Sample Type	Composite	Grab	--	Composite
<i>Table 3+ Lab SOP Mass Discharge<sup>7</sup> (mg/s)</i>				
HFPO-DA	0.09	2.6E-03	--	0.20
PFMOAA	0.29	0.02	--	0.59
PFO2HxA	0.11	0.01	--	ND
PFO3OA	0.04	0.00	--	ND
PFO4DA	0.01	7.0E-04	--	ND
PFO5DA	7.4E-04	4.3E-05	--	ND
PMPA	0.04	2.2E-03	--	0.11
PEPA	0.01	7.7E-04	--	ND
PS Acid	ND	ND	--	ND
Hydro-PS Acid	1.6E-03	5.0E-05	--	ND
R-PSDA	4.5E-03	1.3E-04	--	ND
Hydrolyzed PSDA	0.01	1.2E-04	--	ND
R-PSDCA	ND	ND	--	ND
NVHOS, Acid Form	3.8E-03	3.7E-04	--	ND
EVE Acid	ND	ND	--	ND
Hydro-EVE Acid	5.9E-03	4.3E-05	--	ND
R-EVE	4.3E-03	4.3E-05	--	ND
PES	ND	ND	--	ND
PFECA B	ND	ND	--	ND
PFECA-G	ND	ND	--	ND
<b>Total Attachment C Mass Discharge<sup>8,9</sup></b>	<b>0.59</b>	<b>0.04</b>	<b>--</b>	<b>0.90</b>
<b>Total Table 3+ Mass Discharge (17 compounds)<sup>8,10</sup></b>	<b>0.60</b>	<b>0.04</b>	<b>--</b>	<b>0.90</b>
<b>Total Table 3+ Mass Discharge (20 Compounds)<sup>8</sup></b>	<b>0.61</b>	<b>0.04</b>	<b>--</b>	<b>0.90</b>

**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY UPGRADIENT OF REMEDIES (BEFORE REMEDIES)  
Chemours Fayetteville Works, North Carolina**

Pathway Number <sup>1</sup>	9		
Pathway Name	Georgia Branch Creek		
Flow (MG)	2.4		
Program	CAP SW Sampling 2Q22		
Location ID	GBC-1	Sum of All Pathways - Lower Bound	Sum of All Pathways - Upper Bound
Field Sample ID	CAP2Q22-GBC-1-041922		
Sample Date and Time <sup>2</sup>	04/19/22		
Sample Delivery Group (SDG)	320-87040-1		
Lab Sample ID	320-87040-5		
Sample Type	Grab		
<b>Table 3+ Lab SOP Mass Discharge<sup>7</sup> (mg/s)</b>			
HFPO-DA	0.05	1.29	1.33
PFMOAA	0.00	3.94	4.27
PFO2HxA	0.02	1.40	1.49
PFO3OA	5.1E-03	0.42	0.44
PFO4DA	1.5E-03	0.16	0.16
PFO5DA	ND	0.05	0.05
PMPA	0.04	0.74	0.75
PEPA	0.02	0.23	0.23
PS Acid	ND	0.02	0.02
Hydro-PS Acid	2.2E-03	0.03	0.03
R-PSDA	1.2E-03	0.07	0.07
Hydrolyzed PSDA	ND	0.51	0.52
R-PSDCA	ND	0.00	0.00
NVHOS, Acid Form	4.6E-04	0.55	0.55
EVE Acid	ND	0.00	0.00
Hydro-EVE Acid	ND	0.05	0.05
R-EVE	5.9E-04	0.05	0.05
PES	ND	ND	ND
PFECA B	ND	ND	ND
PFECA-G	ND	ND	ND
<b>Total Attachment C Mass Discharge<sup>8,9</sup></b>	<b>0.14</b>	<b>8.3</b>	<b>8.8</b>
<b>Total Table 3+ Mass Discharge (17 compounds)<sup>8,10</sup></b>	<b>0.14</b>	<b>8.9</b>	<b>9.4</b>
<b>Total Table 3+ Mass Discharge (20 Compounds)<sup>8</sup></b>	<b>0.14</b>	<b>9.5</b>	<b>10.0</b>

**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 April Sampling Event there was no stormwater flow to the stormwater treatment system, so there was no mass loading calculated for this location.

5 - Mass discharge for Onsite Groundwater (Pathway 5) is determined using calculations described in Attachment ATT 3. The lower and upper bounds on the mass discharge was calculated using the upper and lower hydraulic gradient in the Black Creek Aquifer as described in Attachment ATT 3.

6 - Lock Dam North was not sampled during the April Sampling event because the seep was under water due the river height.

7 - Mass discharge by analyte is calculated based on Table 3+ concentrations in Tables A8 and A9, and 24-hour flow volumes reported in Table A3.

8 - Total PFAS mass discharge is based on the summed Total PFAS concentrations reported in Table A8 and Table A9, which are rounded to two significant figures.

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

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.

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

Pathway Number <sup>1</sup>	1	2	4	4A
Pathway Name	Upstream River Water and Groundwater	Willis Creek	Outfall 002 <sup>3</sup>	Stormwater Treatment System <sup>4</sup>
Flow (MG)	2319	2.5	13.3	--
Program	CAP SW Sampling 2Q22	CAP SW Sampling 2Q22	CAP SW Sampling 2Q22	STS Compliance Sampling
Location ID	CFR-MILE-76	WC-1	OUTFALL 002	STS DISCHARGE
Field Sample ID	CAP2Q22-CFR-RM-76-041922	CAP2Q22-WC-1-24-042622	CAP2Q22-OUTFALL-002-24-042022	--
Sample Date and Time <sup>2</sup>	04/19/22	04/26/22	10/20/21	--
Sample Delivery Group (SDG)	320-87040-1	320-87316-1	320-68081-1	--
Lab Sample ID	320-87040-2	320-87316-1	320-68081-2	--
Sample Type	Grab	Composite	Composite	--
<i>Table 3+ Lab SOP Mass Discharge<sup>7</sup> (mg/s)</i>				
HFPO-DA	ND	0.06	2.1E-02	--
PFMOAA	ND	0.12	ND	--
PFO2HxA	ND	0.07	1.6E-03	--
PFO3OA	ND	0.01	ND	--
PFO4DA	ND	2.6E-03	ND	--
PFO5DA	ND	ND	ND	--
PMPA	ND	0.06	ND	--
PEPA	ND	0.02	ND	--
PS Acid	ND	ND	ND	--
Hydro-PS Acid	ND	1.3E-03	ND	--
R-PSDA	ND	0.01	ND	--
Hydrolyzed PSDA	ND	0.03	ND	--
R-PSDCA	ND	ND	ND	--
NVHOS, Acid Form	0.50	2.5E-03	ND	--
EVE Acid	ND	ND	ND	--
Hydro-EVE Acid	ND	1.0E-03	ND	--
R-EVE	ND	2.7E-03	ND	--
PES	ND	ND	ND	--
PFECA B	ND	ND	ND	--
PFECA-G	ND	ND	ND	--
<b>Total Attachment C Mass Discharge<sup>8,9</sup></b>	ND	0.33	0.04	--
<b>Total Table 3+ Mass Discharge (17 compounds)<sup>8,10</sup></b>	0.50	0.3455	0.04	--
<b>Total Table 3+ Mass Discharge (20 Compounds)<sup>8</sup></b>	0.50	0.38	0.04	--



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

Pathway Number <sup>1</sup>	5	5	6A	6B	6C
Pathway Name	Onsite Groundwater - Lower Bound <sup>5</sup>	Onsite Groundwater - Upper Bound <sup>5</sup>	Seep A	Seep B	Seep C
Flow (MG)	--	--	0.25	0.15	0.08
Program	--	--	CAP SW Sampling 2Q22	CAP SW Sampling 2Q22	CAP SW Sampling 2Q22
Location ID	--	--	SEEP-A-EFF	SEEP-B-EFF	SEEP-C-EFF
Field Sample ID	--	--	CAP2Q22-SEEP-A-EFF-24-042022	CAP2Q22-SEEP-B-EFF-24-042022	CAP2Q22-SEEP-C-EFF-24-042022
Sample Date and Time <sup>2</sup>	--	--	04/20/22	04/20/22	04/20/22
Sample Delivery Group (SDG)	--	--	320-87042-1	320-87042-1	320-87042-1
Lab Sample ID	--	--	320-87042-1	320-87042-2	320-87042-3
Sample Type	--	--	Composite	Composite	Composite
<i>Table 3+ Lab SOP Mass Discharge<sup>7</sup> (mg/s)</i>					
HFPO-DA	0.40	0.44	0.00	2.4E-05	3.5E-05
PFMOAA	1.41	1.75	1.2E-03	ND	ND
PFO2HxA	0.56	0.65	0.00	4.4E-05	4.9E-05
PFO3OA	0.16	0.18	0.00	ND	8.1E-06
PFO4DA	0.04	0.04	0.00	ND	ND
PFO5DA	ND	ND	0.00	ND	ND
PMPA	0.18	0.19	0.00	ND	ND
PEPA	0.06	0.06	ND	ND	ND
PS Acid	ND	ND	0.00	ND	ND
Hydro-PS Acid	0.01	0.01	0.00	ND	ND
R-PSDA	0.02	0.02	0.00	ND	ND
Hydrolyzed PSDA	0.06	0.06	0.00	ND	ND
R-PSDCA	1.4E-05	2.0E-05	ND	ND	ND
NVHOS, Acid Form	0.02	0.02	0.00	ND	ND
EVE Acid	ND	ND	ND	ND	ND
Hydro-EVE Acid	0.02	0.02	0.00	ND	ND
R-EVE	0.01	0.02	ND	ND	ND
PES	ND	ND	ND	ND	ND
PFECA B	ND	ND	ND	ND	ND
PFECA-G	ND	ND	ND	ND	ND
<b>Total Attachment C Mass Discharge<sup>8,9</sup></b>	<b>2.79</b>	<b>3.29</b>	<b>3.4E-03</b>	<b>7.0E-05</b>	<b>9.2E-05</b>
<b>Total Table 3+ Mass Discharge (17 compounds)<sup>8,10</sup></b>	<b>2.85</b>	<b>3.37</b>	<b>3.5E-03</b>	<b>7.0E-05</b>	<b>9.2E-05</b>
<b>Total Table 3+ Mass Discharge (20 Compounds)<sup>8</sup></b>	<b>2.94</b>	<b>3.47</b>	<b>3.7E-03</b>	<b>7.0E-05</b>	<b>9.2E-05</b>

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

Pathway Number <sup>1</sup>	6D	6E	6F	7
Pathway Name	Seep D	Lock and Dam Seep	Lock and Dam North <sup>6</sup>	Old Outfall 002
Flow (MG)	0.14	0.01	--	0.56
Program	CAP SW Sampling 2Q22	CAP SW Sampling 2Q22	CAP SW Sampling 2Q22	CAP SW Sampling 2Q22
Location ID	SEEP-D-EFF	Lock-Dam Seep	Lock-Dam North	OLDOF-1
Field Sample ID	CAP2Q22-SEEP-D-EFF-24-042022	CAP2Q22-LOCK-DAM-SEEP-041922	--	CAP2Q22-OLDOF-1-24-042622
Sample Date and Time <sup>2</sup>	04/20/22	04/19/22	--	04/26/22
Sample Delivery Group (SDG)	320-87042-1	320-87040-1	--	320-87316-1
Lab Sample ID	320-87042-4	320-87040-1	--	320-87316-2
Sample Type	Composite	Grab	--	Composite
<i>Table 3+ Lab SOP Mass Discharge<sup>7</sup> (mg/s)</i>				
HFPO-DA	1.5E-05	2.6E-03	--	6.4E-03
PFMOAA	ND	0.02	--	0.01
PFO2HxA	2.2E-05	0.01	--	0.01
PFO3OA	ND	3.3E-03	--	3.9E-03
PFO4DA	ND	7.0E-04	--	1.5E-03
PFO5DA	ND	4.3E-05	--	5.1E-04
PMPA	ND	2.2E-03	--	4.4E-03
PEPA	ND	7.7E-04	--	1.7E-03
PS Acid	ND	ND	--	ND
Hydro-PS Acid	ND	5.0E-05	--	2.0E-04
R-PSDA	ND	1.3E-04	--	2.3E-04
Hydrolyzed PSDA	ND	1.2E-04	--	2.4E-04
R-PSDCA	ND	ND	--	ND
NVHOS, Acid Form	ND	3.7E-04	--	3.9E-04
EVE Acid	ND	ND	--	ND
Hydro-EVE Acid	ND	4.3E-05	--	1.2E-04
R-EVE	ND	4.3E-05	--	ND
PES	ND	ND	--	ND
PFECA B	ND	ND	--	ND
PFECA-G	ND	ND	--	ND
<b>Total Attachment C Mass Discharge<sup>8,9</sup></b>	<b>3.7E-05</b>	<b>0.04</b>	<b>--</b>	<b>0.04</b>
<b>Total Table 3+ Mass Discharge (17 compounds)<sup>8,10</sup></b>	<b>3.7E-05</b>	<b>0.04</b>	<b>--</b>	<b>0.04</b>
<b>Total Table 3+ Mass Discharge (20 Compounds)<sup>8</sup></b>	<b>3.7E-05</b>	<b>0.04</b>	<b>--</b>	<b>0.04</b>

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

Pathway Number <sup>1</sup>	9		
Pathway Name	Georgia Branch Creek		
Flow (MG)	2.4		
Program	CAP SW Sampling 2Q22		
Location ID	GBC-1	Sum of All Pathways - Lower Bound	Sum of All Pathways - Upper Bound
Field Sample ID	CAP2Q22-GBC-1-041922		
Sample Date and Time <sup>2</sup>	04/19/22		
Sample Delivery Group (SDG)	320-87040-1		
Lab Sample ID	320-87040-5		
Sample Type	Grab		
<b>Table 3+ Lab SOP Mass Discharge<sup>7</sup> (mg/s)</b>			
HFPO-DA	0.05	0.53	0.57
PFMOAA	0.00	1.57	1.90
PFO2HxA	0.02	0.67	0.77
PFO3OA	5.1E-03	0.19	0.20
PFO4DA	1.5E-03	0.05	0.05
PFO5DA	ND	0.00	0.00
PMPA	0.04	0.29	0.30
PEPA	0.02	0.10	0.10
PS Acid	ND	0.00	0.00
Hydro-PS Acid	2.2E-03	0.01	0.01
R-PSDA	1.2E-03	0.02	0.02
Hydrolyzed PSDA	ND	0.09	0.10
R-PSDCA	ND	1.4E-05	2.0E-05
NVHOS, Acid Form	4.6E-04	0.52	0.52
EVE Acid	ND	ND	ND
Hydro-EVE Acid	ND	0.02	0.02
R-EVE	5.9E-04	0.02	0.02
PES	ND	ND	ND
PFECA B	ND	ND	ND
PFECA-G	ND	ND	ND
<b>Total Attachment C Mass Discharge<sup>8,9</sup></b>	<b>0.14</b>	<b>3.39</b>	<b>3.89</b>
<b>Total Table 3+ Mass Discharge (17 compounds)<sup>8,10</sup></b>	<b>0.14</b>	<b>3.96</b>	<b>4.47</b>
<b>Total Table 3+ Mass Discharge (20 Compounds)<sup>8</sup></b>	<b>0.14</b>	<b>4.09</b>	<b>4.61</b>

**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 April Sampling Event there was no stormwater flow to the stormwater treatment system, so there was no mass loading calculated for this location.

5 - Mass discharge for Onsite Groundwater (Pathway 5) is determined using calculations described in Attachment ATT 3. The lower and upper bounds on the mass discharge was calculated using the upper and lower hydraulic gradient in the Black Creek Aquifer as described in Attachment ATT 3.

6 - Lock Dam North was not sampled during the April Sampling event because the seep was under water due the river height.

7 - Mass discharge by analyte is calculated based on Table 3+ concentrations in Tables A8 and A9, and 24-hour flow volumes reported in Table A3.

8 - Total PFAS mass discharge is based on the summed Total PFAS concentrations reported in Table A8 and Table A9, which are rounded to two significant figures.

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

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 ( $\text{M L}^{-2}$ ), 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 ATT 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 ( $\text{m}^2$ ) 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 (2022) 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.

As reported in the Corrective Action Plan (Geosyntec, 2019), ten offsite groundwater seeps south of Old Outfall 002 (Seeps E to M) were identified on the west bank of the Cape Fear River south

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

of the Site. Seeps E to M were sampled in October 2019 and Seeps E to K were sampled in March 2020 and analyzed for PFAS. The results of both sampling events indicate that Seeps E to M show an aerial deposition PFAS signature (concentrations decrease in seeps more distant from the Site). Accordingly, the offsite seep data were used to build a relationship between HFPO-DA and other PFAS compounds (Figure ATT 2-7). A scaling factor (Table ATT2-4) was used to estimate mass discharge of Total PFAS compounds to the Cape Fear River as shown in Equation 4. Table ATT2-5 shows the estimated mass discharges of HFPO-DA and Total PFAS compounds to the Cape Fear River.

*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 PFAS compounds across the nine offsite seeps.

**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, 2022. USGS 02105500 Cape Fear River at Wilm O Huske Lock near Tarheel, NC. Available at: [https://waterdata.usgs.gov/nwis/uv?site\\_no=02105500](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 ( $\text{ng}/\text{m}^2$ )	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.  
 $\text{ng}/\text{L}$ : 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	
<b>Average River Cross Section Width (m) =</b>				<b>99</b>

**Notes:**

\*Cross sections locations are shown in Figure G1.

\*\*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 Discharge <sup>1</sup> (cfs)	USGS Reported Average Gage Height <sup>1</sup> (ft)	USGS Reported Total Precipitation <sup>1,2</sup> (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value <sup>3</sup>	Calculated Total Cross Sectional Area (ft <sup>2</sup> )	Calculated River Velocity (ft/s)
4/19/2022	3596.88	2.89	0	101,852	323	19	2	5,519	0.7
4/20/2022	14098.65	6.60	0	399,229	323	23	2	6,406	2.2
4/21/2022	14443.75	7.07	0	409,001	323	24	2	6,512	2.2
4/26/2022	2321.56	2.29	0	65,739	323	19	2	5,373	0.4
<b>Average River Velocity:</b>									<b>1.4</b>

**Notes:**

- 1) Measurements are recorded from the USGS flow gauging station at the W.O. Huske Dam, ID 02105500 (USGS, 2022).
- 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

ft<sup>2</sup>: 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-E	SEEP-F	SEEP-F	SEEP-G	SEEP-G	SEEP-H
Field Sample ID	SEEP-E-0930	Seep E-030420	SEEP-F-0923	Seep F-030420	SEEP-G-0911	Seep G-030420	SEEP-H-0905
Sample Date	10/22/2019	3/4/2020	10/22/2019	3/4/2020	10/22/2019	3/4/2020	10/22/2019
QA/QC	--	--	--	--	--	--	--
Sample Delivery Group (SDG)	320-55576-1	2091227	320-55576-1	2091227	320-55576-1	2091227	320-55576-1
Lab Sample ID	320-55576-1	1274949	320-55576-2	1274953	320-55576-3	1274957	320-55576-4
<b>Table 3+ SOP (ng/L)</b>							
HFPO-DA	1,200	950	1,100	1,100	700	730	550
PFMOAA	480 J	390	900	730	190	220	140
PFO2HxA	800	470	810	640	470	410	350
PFO3OA	170	83	130	110	57	56	28
PFO4DA	83	17	7.3	9.1	9	7.9	<2
PFO5DA	46	<2	<2	<2	<2	<2	<2
PMPA	2,300	1,800	2,800	2,100	1,500	1,500	1,200
PEPA	710	600	870	710	490	520	360
PS Acid	<2	<2	<2	<2	<2	<2	<2
Hydro-PS Acid	90	24	9.6	10	22	11	16
R-PSDA	220 J	53 J	92	68 J	79 J	44 J	39 J
Hydrolyzed PSDA	2.1 J	<2	<2.9	<2	<2	<2	<2
R-PSDCA	<2	<2	<2	<2	<2	<2	<2
NVHOS	15	6	12	8	5.4	5	4.3
EVE Acid	<2	<2	<2	<2	<2	<2	<2
Hydro-EVE Acid	7.7	2.3	2	<2	<2	<2	<2
R-EVE	76	20	60	40	39	28	21 J
PES	<2	<2	<2.3	<2	<2	<2	<2
PFECA B	<2	<2	<3	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2	<2	<2
<b>Total Attachment C (ng/L)<sup>1,2</sup></b>	<b>5,900</b>	<b>4,300</b>	<b>6,600</b>	<b>5,400</b>	<b>3,400</b>	<b>3,500</b>	<b>2,600</b>
<b>Total Table 3+ (17 Compounds) (ng/L)<sup>2,3</sup></b>	<b>5,900</b>	<b>4,300</b>	<b>6,600</b>	<b>5,400</b>	<b>3,400</b>	<b>3,500</b>	<b>2,600</b>
<b>Total Table 3+ (20 Compounds) (ng/L)<sup>2</sup></b>	<b>6,200</b>	<b>4,400</b>	<b>6,800</b>	<b>5,500</b>	<b>3,600</b>	<b>3,500</b>	<b>2,700</b>
<b>Ratio of Total Attachment C to HFPO-DA</b>	<b>4.9</b>	<b>4.5</b>	<b>6.0</b>	<b>4.9</b>	<b>4.9</b>	<b>4.8</b>	<b>4.7</b>
<b>Ratio of Total Table 3+ (17 Compounds) to HFPO-DA</b>	<b>4.9</b>	<b>4.5</b>	<b>6.0</b>	<b>4.9</b>	<b>4.9</b>	<b>4.8</b>	<b>4.7</b>
<b>Ratio of Total Table 3+ (20 Compounds) to HFPO-DA</b>	<b>5.2</b>	<b>4.6</b>	<b>6.2</b>	<b>5.0</b>	<b>5.1</b>	<b>4.8</b>	<b>4.9</b>
<b>Average Ratio of Total Attachment C to HFPO-DA</b>	<b>4.85</b>						
<b>Average Ratio of Total Table 3+ (17 Compounds) to HFPO-DA</b>	<b>4.87</b>						
<b>Average Ratio of Total Table 3+ (20 Compounds) to HFPO-DA</b>	<b>5.03</b>						

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

Location ID	SEEP-H	SEEP-I	SEEP-I	SEEP-J	SEEP-J	SEEP-K	SEEP-K
Field Sample ID	Seep H-030420	SEEP-I-0856	Seep I-030420	SEEP-J-0843	Seep J-030420	SEEP-K-0835	Seep K-030420
Sample Date	3/4/2020	10/22/2019	3/4/2020	10/22/2019	3/4/2020	10/22/2019	3/4/2020
QA/QC	--	--	--	--	--	--	--
Sample Delivery Group (SDG)	2091227	320-55576-1	2091227	320-55576-1	2091227	320-55576-1	2091227
Lab Sample ID	1274961	320-55576-5	1274965	320-55576-6	1274969	320-55576-7	1274973
<b>Table 3+ SOP (ng/L)</b>							
HFPO-DA	540	570	470	580	250	640	490
PFMOAA	180	130	200	180 J	140	160	210
PFO2HxA	330	300	280	350 J	130	320	230
PFO3OA	30	17	18	120 J	16	41	28
PFO4DA	<2	<2	<2	58	4.7	11	5
PFO5DA	<2	<2	<2	20 J	2.2	4.8	<2
PMPA	1,100	1,200	1,100	810 J	660	1,300	1,000
PEPA	360	390	390	260	200	400	350
PS Acid	<2	<2	<2	<2	<2	<2	<2
Hydro-PS Acid	9.3	12	12	37	6.9	70	16
R-PSDA	30 J	53 J	36	110 J	23	130 J	49
Hydrolyzed PSDA	<2	<2	<2	<2	<2	<2	<2
R-PSDCA	<2	<2	<2	<2	<2	<2	<2
NVHOS	3.7	4.4	4.5	8.1 J	2.8	5.2	4.7
EVE Acid	<2	<2	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	2.7	<2	3.5	<2
R-EVE	20	23 J	17	16	13	46 J	25
PES	<2	<2	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2	<2	<2
<b>Total Attachment C (ng/L)<sup>1,2</sup></b>	<b>2,500</b>	<b>2,600</b>	<b>2,500</b>	<b>2,400</b>	<b>1,400</b>	<b>2,900</b>	<b>2,300</b>
<b>Total Table 3+ (17 Compounds) (ng/L)<sup>2,3</sup></b>	<b>2,600</b>	<b>2,600</b>	<b>2,500</b>	<b>2,400</b>	<b>1,400</b>	<b>3,000</b>	<b>2,300</b>
<b>Total Table 3+ (20 Compounds) (ng/L)<sup>2</sup></b>	<b>2,600</b>	<b>2,700</b>	<b>2,500</b>	<b>2,600</b>	<b>1,400</b>	<b>3,100</b>	<b>2,400</b>
<b>Ratio of Total Attachment C to HFPO-DA</b>	<b>4.6</b>	<b>4.6</b>	<b>5.3</b>	<b>4.1</b>	<b>5.6</b>	<b>4.5</b>	<b>4.7</b>
<b>Ratio of Total Table 3+ (17 Compounds) to HFPO-DA</b>	<b>4.8</b>	<b>4.6</b>	<b>5.3</b>	<b>4.1</b>	<b>5.6</b>	<b>4.7</b>	<b>4.7</b>
<b>Ratio of Total Table 3+ (20 Compounds) to HFPO-DA</b>	<b>4.8</b>	<b>4.7</b>	<b>5.3</b>	<b>4.5</b>	<b>5.6</b>	<b>4.8</b>	<b>4.9</b>
<b>Average Ratio of Total Attachment C to HFPO-DA</b>	<b>4.85</b>						
<b>Average Ratio of Total Table 3+ (17 Compounds) to HFPO-DA</b>	<b>4.87</b>						
<b>Average Ratio of Total Table 3+ (20 Compounds) to HFPO-DA</b>	<b>5.03</b>						

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

Location ID	SEEP-L	SEEP-M
Field Sample ID	SEEP-L-0825	SEEP-M-0818
Sample Date	10/22/2019	10/22/2019
QA/QC	--	--
Sample Delivery Group (SDG)	320-55576-1	320-55576-1
Lab Sample ID	320-55576-8	320-55576-9
<b>Table 3+ SOP (ng/L)</b>		
HFPO-DA	520	570
PFMOAA	130	100
PFO2HxA	220	190
PFO3OA	18	15
PFO4DA	2.7	<2
PFO5DA	<2	<2
PMPA	1,200	1,300
PEPA	350	410
PS Acid	<2	<2
Hydro-PS Acid	44	28
R-PSDA	120 J	78 J
Hydrolyzed PSDA	<2	<2
R-PSDCA	<2	<2
NVHOS	5.9	5.6
EVE Acid	<2	<2
Hydro-EVE Acid	<2	<2
R-EVE	44 J	26 J
PES	<2	<2
PFECA B	<2	<2
PFECA-G	<2	<2
<b>Total Attachment C (ng/L)<sup>1,2</sup></b>	<b>2,500</b>	<b>2,600</b>
<b>Total Table 3+ (17 Compounds) (ng/L)<sup>2,3</sup></b>	<b>2,500</b>	<b>2,600</b>
<b>Total Table 3+ (20 Compounds) (ng/L)<sup>2</sup></b>	<b>2,700</b>	<b>2,700</b>
<b>Ratio of Total Attachment C to HFPO-DA</b>	<b>4.8</b>	<b>4.6</b>
<b>Ratio of Total Table 3+ (17 Compounds) to HFPO-DA</b>	<b>4.8</b>	<b>4.6</b>
<b>Ratio of Total Table 3+ (20 Compounds) to HFPO-DA</b>	<b>5.2</b>	<b>4.7</b>
<b>Average Ratio of Total Attachment C to HFPO-DA</b>	<b>4.85</b>	
<b>Average Ratio of Total Table 3+ (17 Compounds) to HFPO-DA</b>	<b>4.87</b>	
<b>Average Ratio of Total Table 3+ (20 Compounds) to HFPO-DA</b>	<b>5.03</b>	

**Notes:**

**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.

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, and R-EVE.

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

Section <sup>1</sup>	Start Air Loading (ug/m <sup>2</sup> )	End Air Loading (ug/m <sup>2</sup> )	Start Deposition Rate (ng/m <sup>2</sup> /hr) <sup>2</sup>	End Deposition Rate (ng/m <sup>2</sup> /hr) <sup>2</sup>	Average Deposition Rate (ng/m <sup>2</sup> /hr)	Section Distance <sup>3</sup> (m)	Average River Width (m)	Section Area (m <sup>2</sup> )	River Velocity <sup>4</sup> (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	1.4	1509.50	0.60	1.0	0.00045
Up River Section 1	160	80	18.3	9.1	13.7	490	98.59	48,300	1.4	1509.50	0.32	0.2	0.00018
Up River Section 2	80	40	9.1	4.6	6.8	909	98.59	89,570	1.4	1509.50	0.60	0.4	0.00017
Down River Section 1	160	80	18.3	9.1	13.7	586	98.59	57,813	1.4	1509.50	0.39	0.3	0.00022
Down River Section 2	80	40	9.1	4.6	6.8	565	98.59	55,672	1.4	1509.50	0.37	0.1	0.00011
<b>Total HFPO-DA:</b>												<b>0.0011</b>	
<b>Total Attachment C<sup>5</sup>:</b>												<b>0.005</b>	
<b>Total Table 3+ (17 Compounds)<sup>6</sup>:</b>												<b>0.006</b>	
<b>Total Table 3+ (20 Compounds):</b>												<b>0.006</b>	

**Notes:**

- River cross sections are shown in Figure ATT2-1.
- Based on model deposition rate, Table ATT2-1.
- Section distances are measured in GIS as shown on Figures ATT2-2 through ATT2-6.
- River velocity is calculated as an average from USGS discharge data between April 19 to 26, 2022, Table ATT2-3.
- Total Attachment C does not include Perfluoroheptanoic acid (PFHpA).
- Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, and R-EVE.

μg/m<sup>2</sup>/yr: micrograms per meter square per year

ft/s: feet per second

hr: hours

m/hr: meters per hour

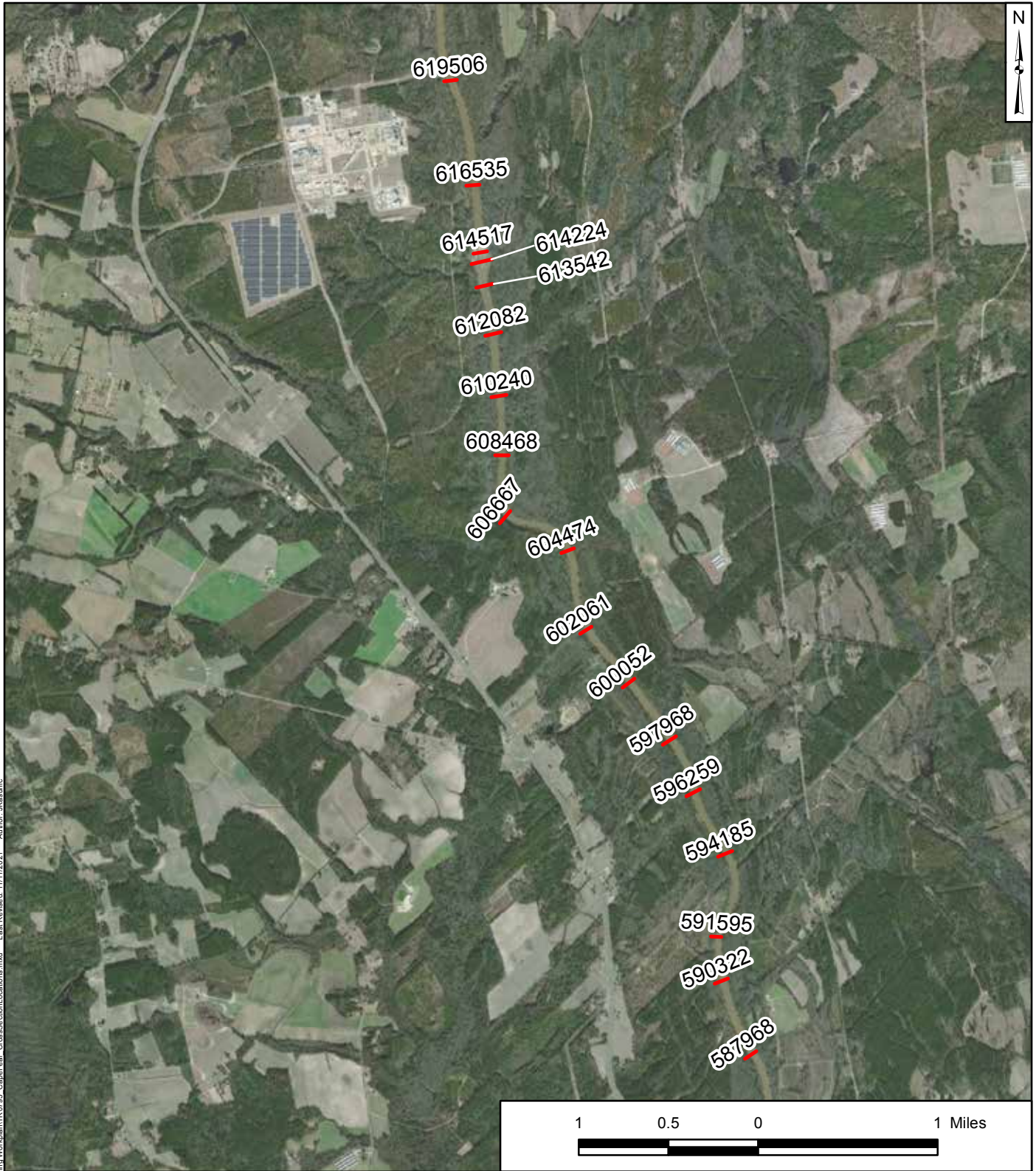
m: meter

m<sup>2</sup>: meter square

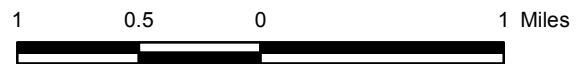
mg/s: milligrams per second

mg: milligrams

ng/m<sup>2</sup>/hr: nanograms per meter square per hour



Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\BaseLine\_Monitoring\Workplans\TR0795\_CapeFear\_CrossSectionLocations.mxd  
 Last Revised: 11/11/2021 Author: JKasunic  
 Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet. Units in Foot US



**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

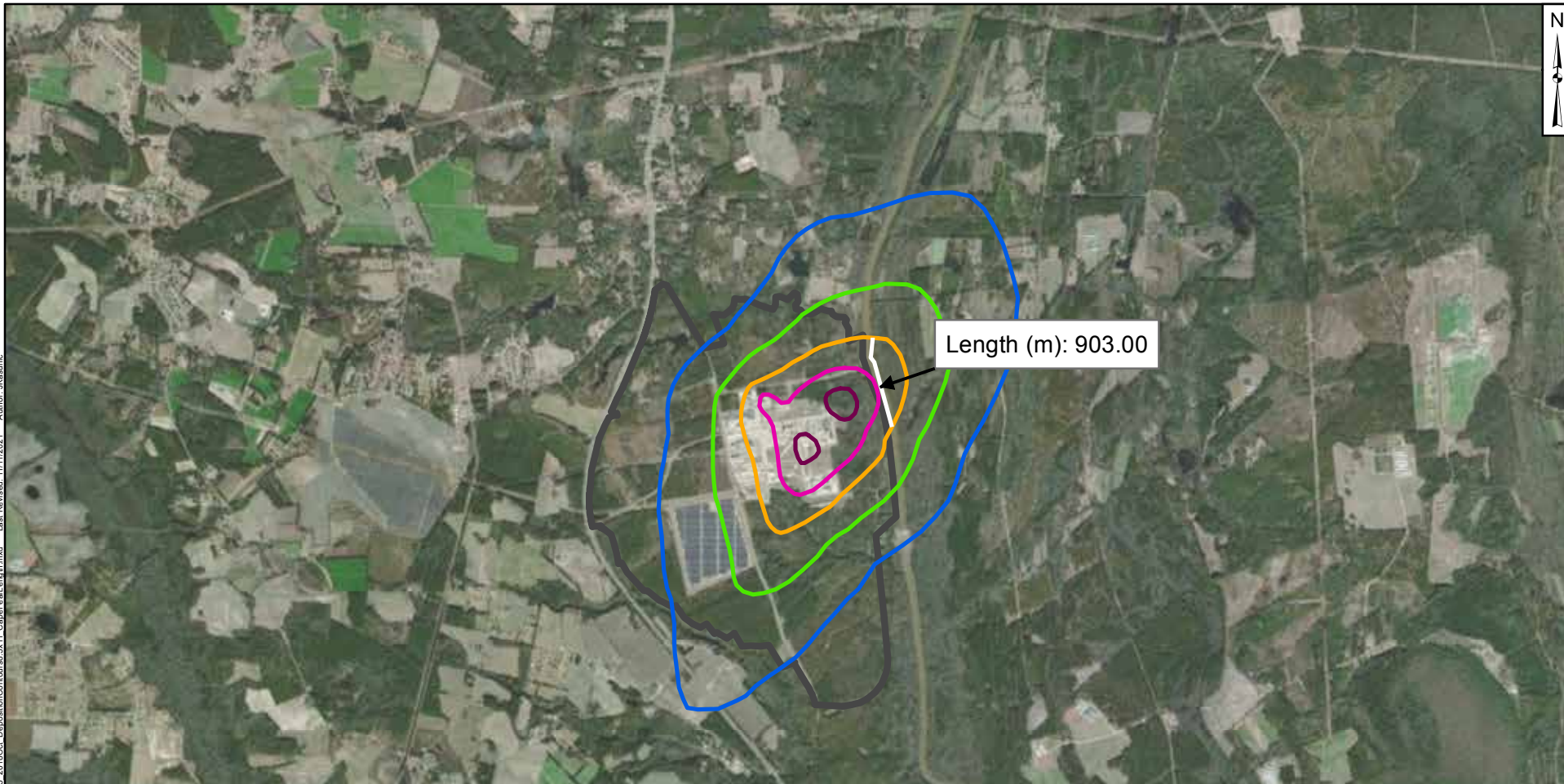
Raleigh, NC

September 2022

**Figure**  
**ATT2-1**



Path: P:\PRJ\Projects\TR07\_06\Database and GIS\GIS\Baseline\_Monitoring\Workplans\TR07\_06\_2018Oct\_DepositionContours8.5x11\_CapeFearLength.mxd Last Revised: 11/11/2021 Author: jkaunig



**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 Center Section**

Chemours Fayetteville Works, North Carolina

**Geosyntec**  
consultants

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

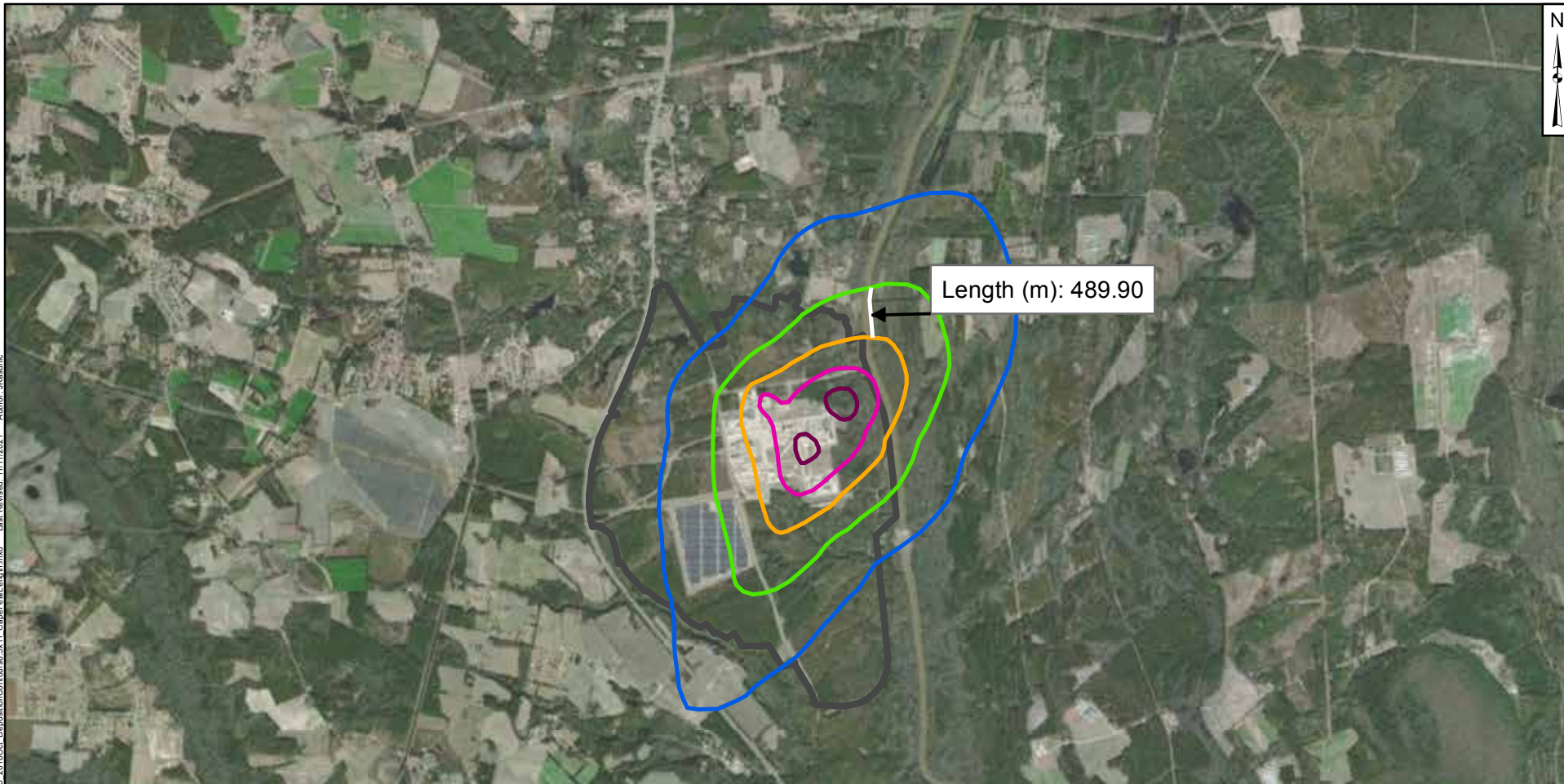
Figure

**ATT2-2**

Raleigh

September 2022

Path: P:\PRJ\Projects\TR07\_05\Baseline\_Monitoring\Workplans\TR07\_05\_2018Oct\_DepositionContours8.5x11\_CapeFear.rpt\1.mxd Last Revised: 11/11/2021 Author: jkaunig



**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

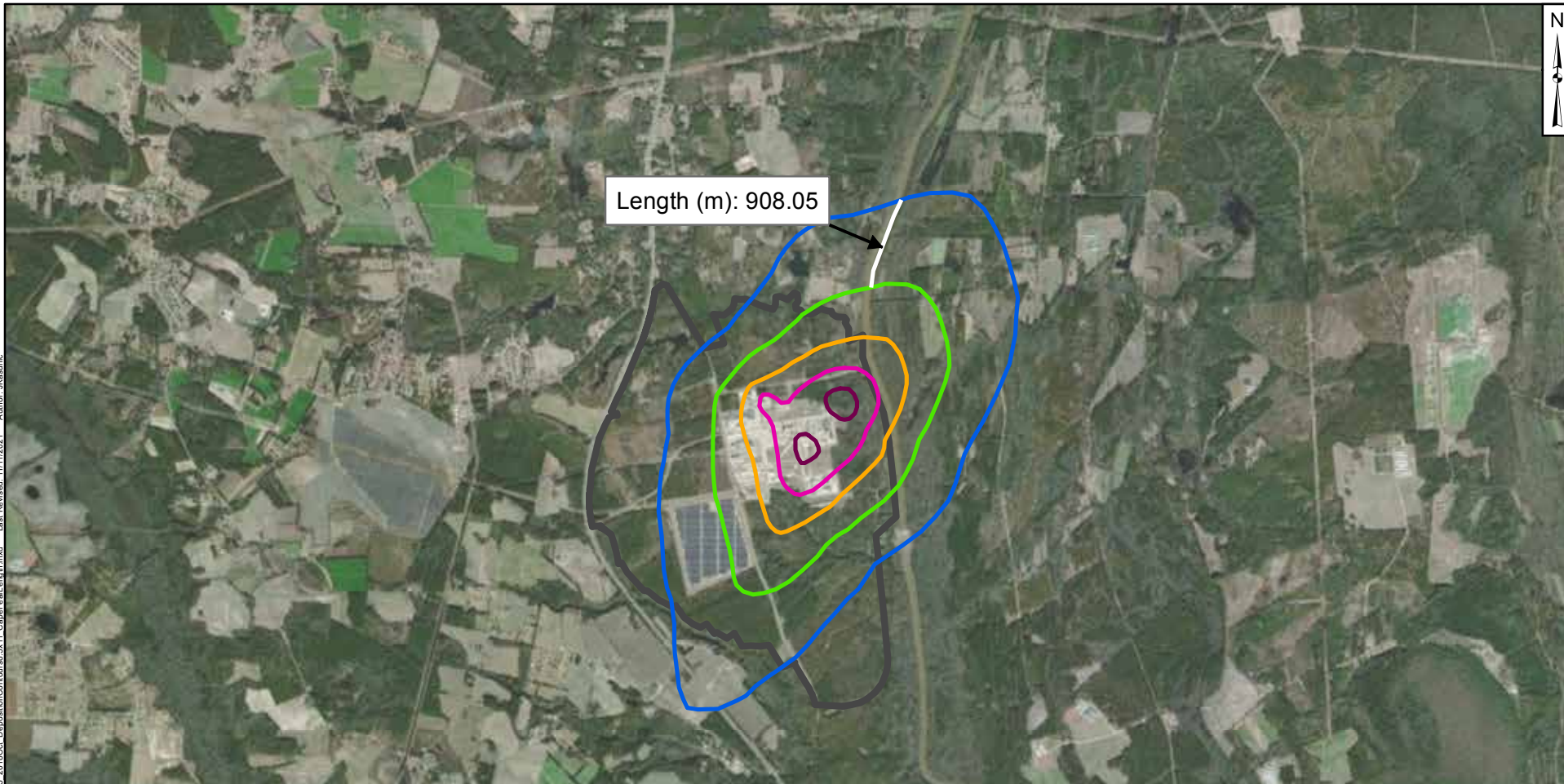
Figure

**ATT2-3**

Raleigh

September 2022

Path: P:\PRJ\Projects\TR07\_06\Database and GIS\GIS\Baseline\_Monitoring\Workplans\TR07\_06\_2018Oct\_DepositionContours8.5x11\_CapeFearLength.mxd Last Revised: 11/11/2021 Author: jkaunig



**Legend**

— Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 µg/m<sup>2</sup>/yr
- 80 µg/m<sup>2</sup>/yr
- 160 µg/m<sup>2</sup>/yr
- 320 µg/m<sup>2</sup>/yr
- 640 µg/m<sup>2</sup>/yr

Notes:  
µg / m<sup>2</sup> / 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

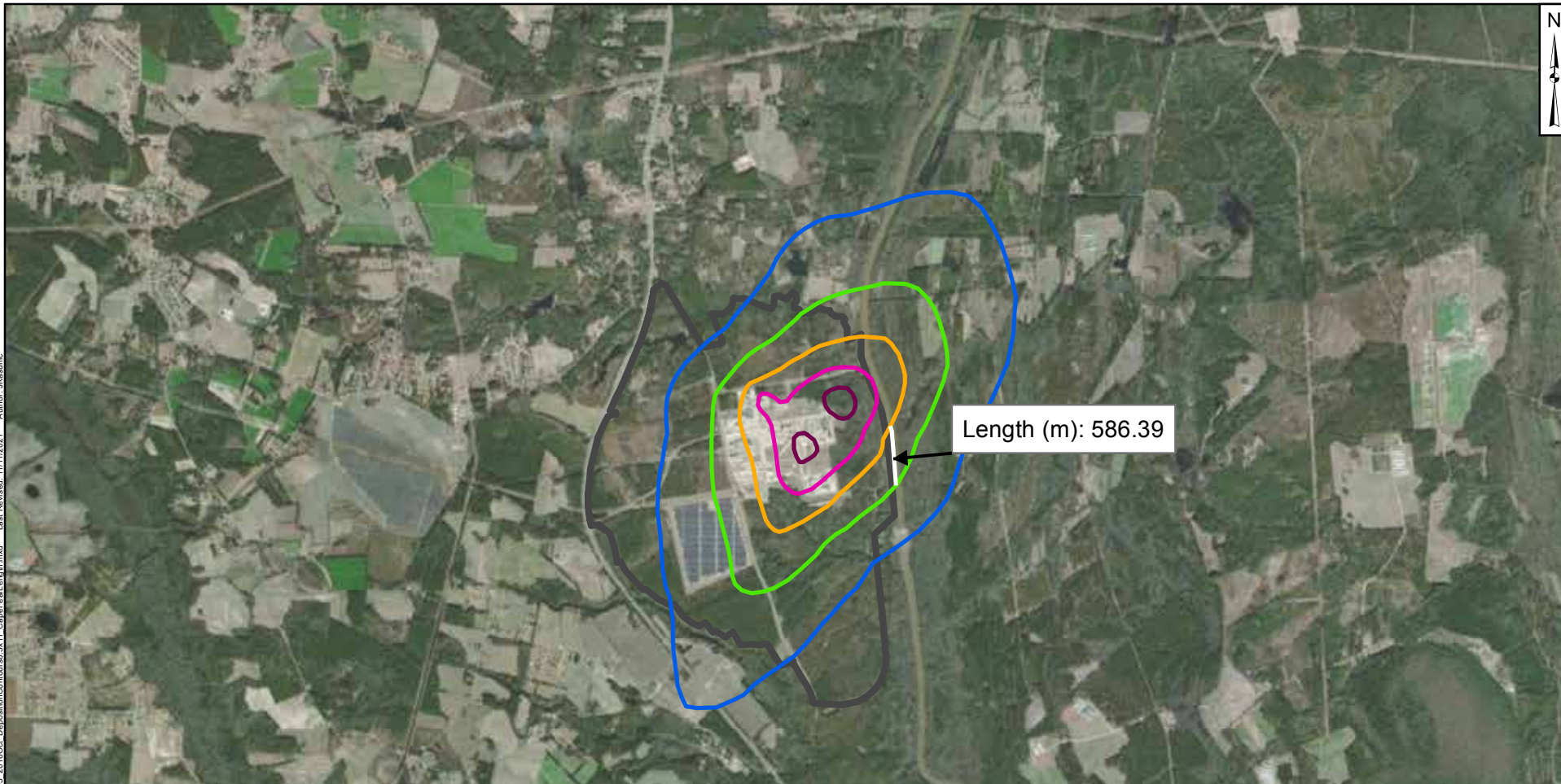
Figure

**ATT2-4**

Raleigh

September 2022

Path: P:\PRJ\Projects\TR07\GIS\Baseline\_Monitoring\Work\kellam\TR07\05\_2018\Oct\_DepositionContours8.5x11\_CapeFearLength.mxd Last Revised: 11/11/2021 Author: jkaunig



**Legend**

— Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 µg/m<sup>2</sup>/yr
- 80 µg/m<sup>2</sup>/yr
- 160 µg/m<sup>2</sup>/yr
- 320 µg/m<sup>2</sup>/yr
- 640 µg/m<sup>2</sup>/yr

Notes:  
µg / m<sup>2</sup> / 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

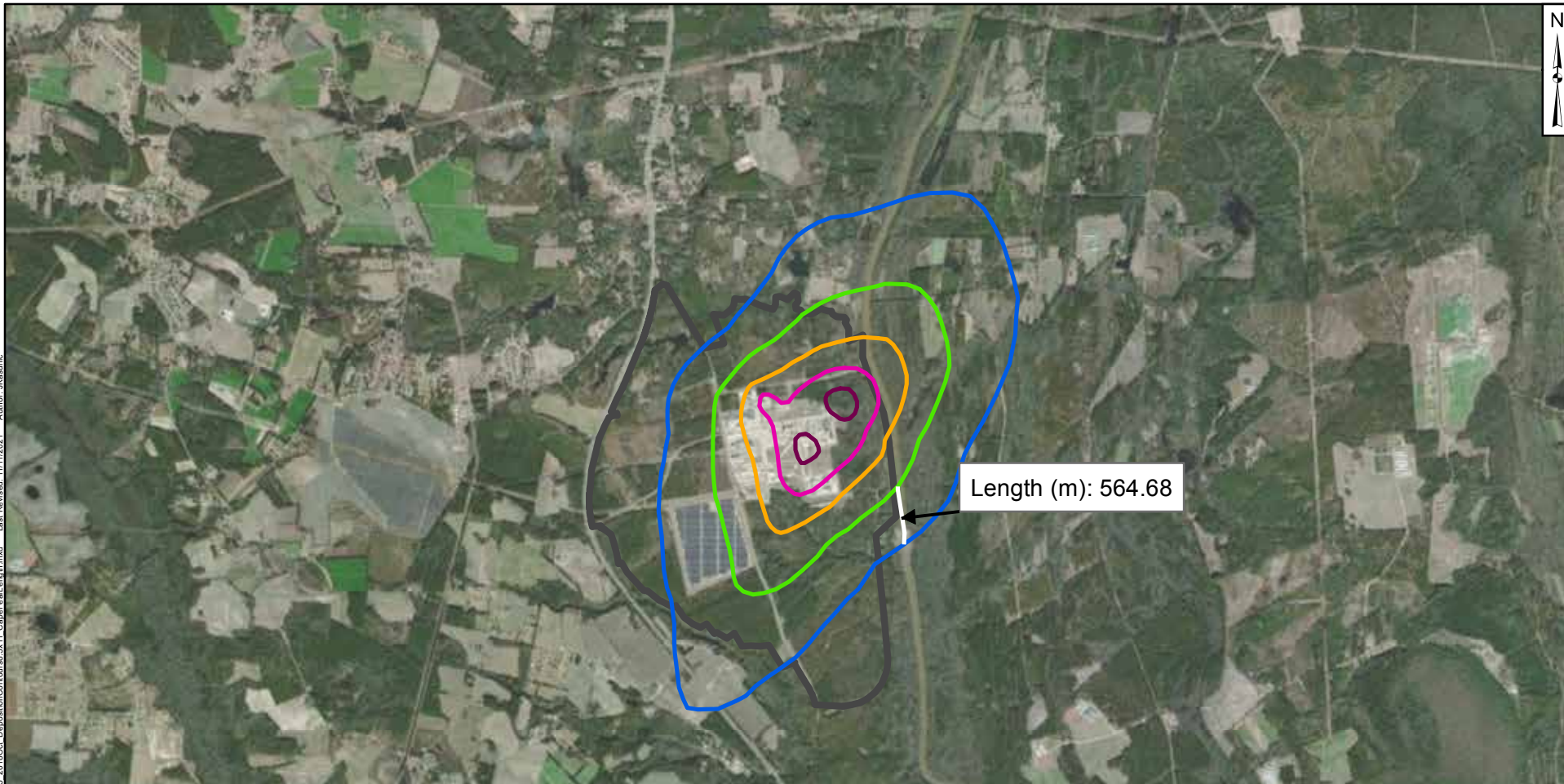
Figure

**ATT2-5**

Raleigh

September 2022

Path: P:\PRJ\Projects\TR07\_06\Database and GIS\GIS\Baseline\_Monitoring\Workplans\TR07\_06\_2018Oct\_DepositionContours8.5x11\_CapeFearLength.mxd Last Revised: 11/11/2021 Author: jkaunig



**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

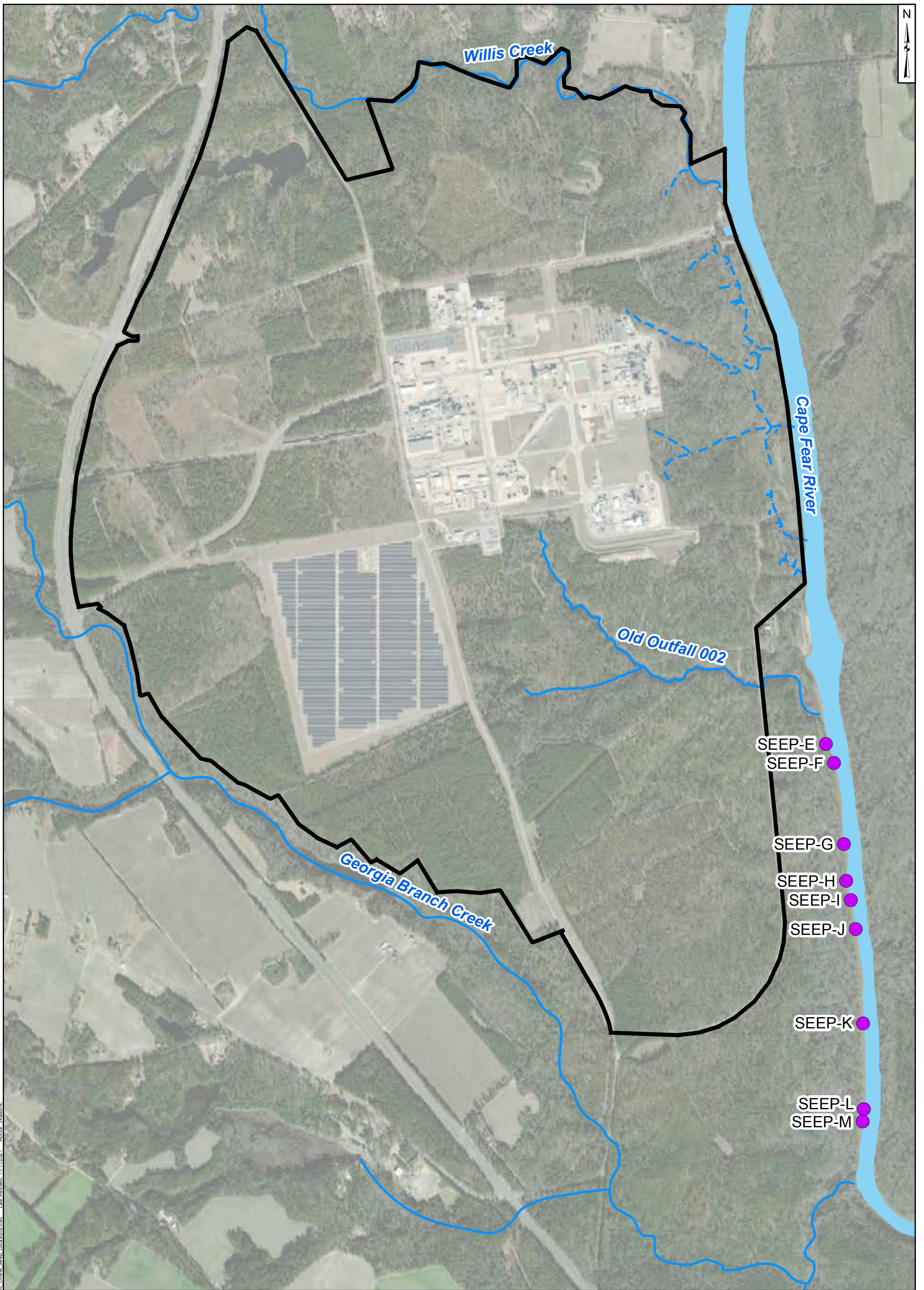
Geosyntec Consultants of NC, P.C.  
NC License No.: C 3500 and C 295

Figure

**ATT2-6**

Raleigh

September 2022

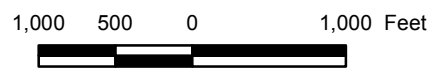


Path: P:\PRJ\Projects\170726\Datbase and GIS\GIS Baseline Monitoring\Workdocs\170726\Offsite Seep Locations.mxd - Last Revised: 11/11/2021 - Author: J.Krause  
 Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet Units in Foot US

- Legend**
- Observed Seep
  - Nearby Tributary
  - Site Boundary

**Notes:**

1. Seep E to M 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, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



**Southwestern Offsite Seeps Locations**  
 Chemours Fayetteville Works, North Carolina

**Geosyntec**  
 consultants

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

**Figure**  
**ATT2-7**

Raleigh

September 2022

# **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 design 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.

### 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 eight segments (Figure ATT 3-1). Each segment includes one groundwater monitoring well that is considered representative of the Black Creek Aquifer and that is included in the Corrective Action Plan<sup>1</sup> (Geosyntec, 2019).
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):

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

where,

$h$  = the Black Creek Aquifer thickness [ft];

$A$  = the cross-sectional area of the Black Creek Aquifer [ft<sup>2</sup>]; and

$l$  = the segment length [ft].

The EVS model output for each segment is presented in Figure ATT 3-2.

---

<sup>1</sup> 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**

- The hydraulic gradient (*i*) was derived based on the groundwater level contour map. For each segment, two gradients were estimated based on the distance between two sets of contour lines in the vicinity of the river frontage (Figure ATT 3-3):

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

where,

*i* = the hydraulic gradient [ft/ft];

$\Delta h$  = the head difference between two contour lines [ft]; and

*d* = the estimated distance between the contour lines [ft]

For each segment, a range of hydraulic gradients was calculated using two different contour elevation differences in the vicinity of the river frontage: a 10-foot elevation difference (between the 40 and 50 ft contours) and a 20-foot elevation difference (between the 40 and 60 ft contours). Using two contour elevation differences captures the variation in hydraulic gradient estimates over a range of spatial scales. This approach is considered to best represent the likely groundwater fluxes discharging from the Black Creek Aquifer to the Cape Fear River. Based on hydrographs from wells along the river presented in Figure ATT 3-4 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 a subdued manner.

- 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):

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

- The total PFAS concentration for each segment was determined based on grab samples collected from monitoring wells. PFAS analytical results for these groundwater samples are presented in Table ATT1-15-1 and ATT1-15-2 in Attachment 1 of this report. Due to the length of Segment 8, total PFAS concentrations for Segment 8 are

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

based on the average concentrations for two wells in the Black Creek Aquifer along the segment to better represent the length. The two wells included in the average are PW-11 and PIW-10DR. PW-11 was inaccessible during August 2021 through January 2022. PFAS analytical results obtained for Segment 8 during the July 2021 monitoring event were used to determine mass loading for Segment 8.

6. 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 upper and lower bound of the total mass flux for the groundwater pathway was calculated as the sum of the individual mass flux results for the eight segments. Parameters listed above were also used to estimate groundwater flow rates, shown in Table ATT3-2.

**Potential Future Methodology Modifications**

Periodically, adjustments to this calculation methodology may be required 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	Well	Sample Date	Segment Length (ft)	Cross-sectional Area of Black Creek Aquifer <sup>1</sup> (ft <sup>2</sup> )	Average Thickness of Black Creek Aquifer (ft)	Lower Groundwater Contour Elevation Difference <sup>2</sup> (ft)	Horizontal Distance Between Contours (Lower Elevation Difference) <sup>2</sup> (ft)	Upper Groundwater Contour Elevation Difference <sup>2</sup> (ft)	Horizontal Distance Between Contours (Upper Elevation Difference) <sup>2</sup> (ft)	Hydraulic Gradient (Lower Elevation Difference) (ft/ft)	Hydraulic Gradient (Upper Elevation Difference) (ft/ft)	Hydraulic Conductivity <sup>3</sup> (ft/sec)	Total Attachment C <sup>4</sup>		
													Concentration <sup>6</sup> (ng/L)	Mass Loading Lower Bound (mg/sec)	Mass Loading Upper Bound (mg/sec)
1	PIW-1D	04/12/22	1,150	13,400	11.7	10	130.3	20	311.4	0.077	0.064	1.71E-04	40,000	0.1984	0.1661
2	PIW-3D	04/14/22	873	11,010	12.6	10	454.7	20	710.0	0.022	0.028	1.71E-04	43,000	0.0503	0.0644
3	LTW-02	04/15/22	875	5,560	6.4	10	605.3	20	968.6	0.017	0.021	1.02E-04	33,000	0.0087	0.0109
4	LTW-03	04/26/22	729	2,800	3.9	10	648.7	20	917.5	0.015	0.022	1.02E-04	200,000	0.0251	0.0355
5	PZ-22	04/13/22	656	15,200	23.2	10	761.2	20	1,046.8	0.013	0.019	3.28E-04	220,000	0.4092	0.5951
6	PIW-7D	04/26/22	524	16,000	30.5	10	734.1	20	1,013.7	0.014	0.020	3.28E-04	210,000	0.4242	0.6143
7	LTW-05	04/26/22	887	17,200	19.4	10	739.0	20	1,035.7	0.014	0.019	1.28E-04	190,000	0.1604	0.2289
8	EW-3	04/27/22	1,990	56,300	28.3	10	237.6	20	457.4	0.042	0.044	2.59E-04	87,000	1.5130	1.5718
<b>Total</b>													<b>40,000</b>	<b>2.79</b>	<b>3.29</b>

**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 - Vertical and horizontal distances for hydraulic gradient determined from groundwater level contour map for the April 2022 synoptic well gauging round (Figure ATT3-3).
- 3 - Hydraulic conductivity values are based on constant rate pumping test results from extraction wells described in Attachment ATT3.
- 4 - Attachment C does not include Perfluoroheptanoic acid (PFHpA).
- 5 - Total Table 3+ (17 compounds) does not include R-PSDA, Hydrolyzed PSDA, and R-EVE.
- 6 - Detailed PFAS Concentrations provided in Table A9.

ft - feet  
 ft/sec - feet per second  
 ft<sup>2</sup> - square feet  
 mg/sec - milligrams per second  
 ng/L - nanograms per liter

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

Segment	Well	Sample Date	Segment Length (ft)	Cross-sectional Area of Black Creek Aquifer <sup>1</sup> (ft <sup>2</sup> )	Average Thickness of Black Creek Aquifer (ft)	Lower Groundwater Contour Elevation Difference <sup>2</sup> (ft)	Horizontal Distance Between Contours (Lower Elevation Difference) <sup>2</sup> (ft)	Upper Groundwater Contour Elevation Difference <sup>2</sup> (ft)	Horizontal Distance Between Contours (Upper Elevation Difference) <sup>2</sup> (ft)	Hydraulic Gradient (Lower Elevation Difference) (ft/ft)	Hydraulic Gradient (Upper Elevation Difference) (ft/ft)	Hydraulic Conductivity <sup>3</sup> (ft/sec)	Total Table 3+ (17 Compounds) <sup>5</sup>		
													Concentration <sup>6</sup> (ng/L)	Mass Loading Lower Bound (mg/sec)	Mass Loading Upper Bound (mg/sec)
1	PIW-1D	04/12/22	1,150	13,400	11.7	10	130.3	20	311.4	0.077	0.064	1.71E-04	40,000	0.1984	0.1661
2	PIW-3D	04/14/22	873	11,010	12.6	10	454.7	20	710.0	0.022	0.028	1.71E-04	44,000	0.0515	0.0659
3	LTW-02	04/15/22	875	5,560	6.4	10	605.3	20	968.6	0.017	0.021	1.02E-04	34,000	0.0090	0.0112
4	LTW-03	04/26/22	729	2,800	3.9	10	648.7	20	917.5	0.015	0.022	1.02E-04	200,000	0.0251	0.0355
5	PZ-22	04/13/22	656	15,200	23.2	10	761.2	20	1,046.8	0.013	0.019	3.28E-04	220,000	0.4092	0.5951
6	PIW-7D	04/26/22	524	16,000	30.5	10	734.1	20	1,013.7	0.014	0.020	3.28E-04	220,000	0.4444	0.6436
7	LTW-05	04/26/22	887	17,200	19.4	10	739.0	20	1,035.7	0.014	0.019	1.28E-04	200,000	0.1689	0.2410
8	EW-3	04/27/22	1,990	56,300	28.3	10	237.6	20	457.4	0.042	0.044	2.59E-04	89,000	1.5478	1.6079
<b>Total</b>													<b>2.85</b>	<b>3.37</b>	

**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 - Vertical and horizontal distances for hydraulic gradient determined from groundwater level contour map for the April 2022 synoptic well gauging round (Figure ATT3-3).
- 3 - Hydraulic conductivity values are based on constant rate pumping test results from extraction wells described in Attachment ATT3.
- 4 - Attachment C does not include Perfluoroheptanoic acid (PFHpA).
- 5 - Total Table 3+ (17 compounds) does not include R-PSDA, Hydrolyzed PSDA, and R-EVE.
- 6 - Detailed PFAS Concentrations provided in Table A9.

ft - feet  
 ft/sec - feet per second  
 ft<sup>2</sup> - square feet  
 mg/sec - milligrams per second  
 ng/L - nanograms per liter

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

Segment	Well	Sample Date	Segment Length (ft)	Cross-sectional Area of Black Creek Aquifer <sup>1</sup> (ft <sup>2</sup> )	Average Thickness of Black Creek Aquifer (ft)	Lower Groundwater Contour Elevation Difference <sup>2</sup> (ft)	Horizontal Distance Between Contours (Lower Elevation Difference) <sup>2</sup> (ft)	Upper Groundwater Contour Elevation Difference <sup>2</sup> (ft)	Horizontal Distance Between Contours (Upper Elevation Difference) <sup>2</sup> (ft)	Hydraulic Gradient (Lower Elevation Difference) (ft/ft)	Hydraulic Gradient (Upper Elevation Difference) (ft/ft)	Hydraulic Conductivity <sup>3</sup> (ft/sec)	Total Table 3+ (20 Compounds)		
													Concentration <sup>6</sup> (ng/L)	Mass Loading Lower Bound (mg/sec)	Mass Loading Upper Bound (mg/sec)
1	PIW-1D	04/12/22	1,150	13,400	11.7	10	130.3	20	311.4	0.077	0.064	1.71E-04	40,000	0.1984	0.1661
2	PIW-3D	04/14/22	873	11,010	12.6	10	454.7	20	710.0	0.022	0.028	1.71E-04	44,000	0.0515	0.0659
3	LTW-02	04/15/22	875	5,560	6.4	10	605.3	20	968.6	0.017	0.021	1.02E-04	34,000	0.0090	0.0112
4	LTW-03	04/26/22	729	2,800	3.9	10	648.7	20	917.5	0.015	0.022	1.02E-04	210,000	0.0264	0.0373
5	PZ-22	04/13/22	656	15,200	23.2	10	761.2	20	1,046.8	0.013	0.019	3.28E-04	230,000	0.4278	0.6222
6	PIW-7D	04/26/22	524	16,000	30.5	10	734.1	20	1,013.7	0.014	0.020	3.28E-04	220,000	0.4444	0.6436
7	LTW-05	04/26/22	887	17,200	19.4	10	739.0	20	1,035.7	0.014	0.019	1.28E-04	200,000	0.1689	0.2410
8	EW-3	04/27/22	1,990	56,300	28.3	10	237.6	20	457.4	0.042	0.044	2.59E-04	93,000	1.6173	1.6802
<b>Total</b>													<b>40,000</b>	<b>2.94</b>	<b>3.47</b>

**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 - Vertical and horizontal distances for hydraulic gradient determined from groundwater level contour map for the April 2022 synoptic well gauging round (Figure ATT3-3).
- 3 - Hydraulic conductivity values are based on constant rate pumping test results from extraction wells described in Attachment ATT3.
- 4 - Attachment C does not include Perfluoroheptanoic acid (PFHpA).
- 5 - Total Table 3+ (17 compounds) does not include R-PSDA, Hydrolyzed PSDA, and R-EVE.
- 6 - Detailed PFAS Concentrations provided in Table A9.

ft - feet  
 ft/sec - feet per second  
 ft<sup>2</sup> - square feet  
 mg/sec - milligrams per second  
 ng/L - nanograms per liter

**TABLE ATT 3-2**  
**APRIL 2022 ONSITE GROUNDWATER FLOW RATE**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

Segment	Cross-sectional Area of Black Creek Aquifer <sup>1</sup> (ft <sup>2</sup> )	Hydraulic Gradient (Lower Elevation Difference) <sup>1,2</sup> (ft/ft)	Hydraulic Gradient (Upper Elevation Difference) <sup>1,2</sup> (ft/ft)	Hydraulic Conductivity (ft/sec) <sup>1</sup>	Flow Lower Bound (ft <sup>3</sup> /sec)	Flow Upper Bound (ft <sup>3</sup> /sec)	Flow Lower Bound (gal/day)	Flow Upper Bound (gal /day)
1	13,400	0.077	0.064	1.71E-04	1.75E-01	1.47E-01	113,186	94,768
2	11,010	0.022	0.028	1.71E-04	4.13E-02	5.29E-02	26,700	34,198
3	5,560	0.017	0.021	1.02E-04	9.34E-03	1.17E-02	6,038	7,546
4	2,800	0.015	0.022	1.02E-04	4.44E-03	6.28E-03	2,869	4,056
5	15,200	0.013	0.019	3.28E-04	6.57E-02	9.55E-02	42,455	61,744
6	16,000	0.014	0.020	3.28E-04	7.13E-02	1.03E-01	46,104	66,772
7	17,200	0.014	0.019	1.28E-04	2.98E-02	4.25E-02	19,270	27,501
8	56,300	0.042	0.044	2.59E-04	6.14E-01	6.38E-01	396,933	412,351
					<b>1.011</b>	<b>1.097</b>	<b>653,554</b>	<b>708,936</b>

**Notes**

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

2 - Hydraulic gradient determined using a lower groundwater contour elevation difference (10 ft) and an upper groundwater contour elevation difference (20 ft).

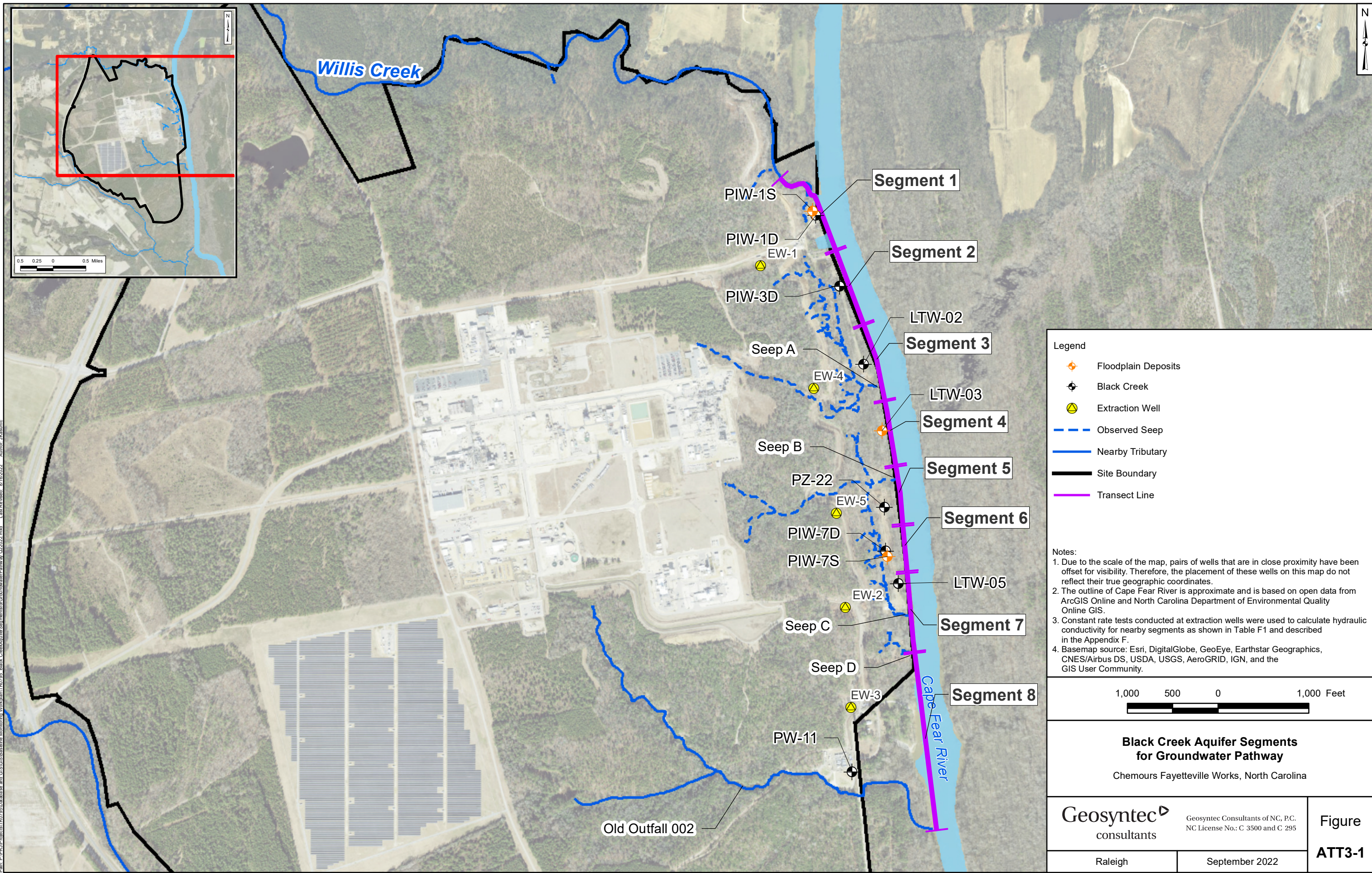
ft - feet

ft<sup>2</sup> - square feet

ft/sec - feet per second

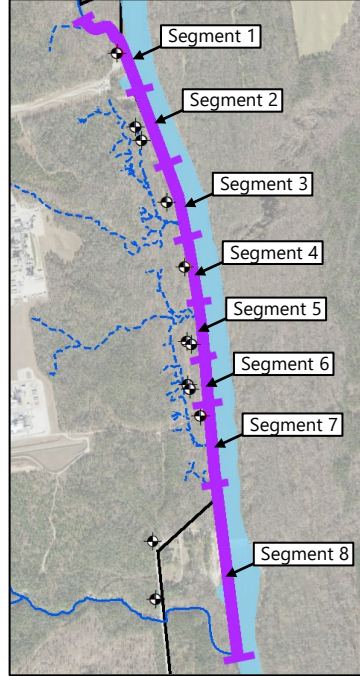
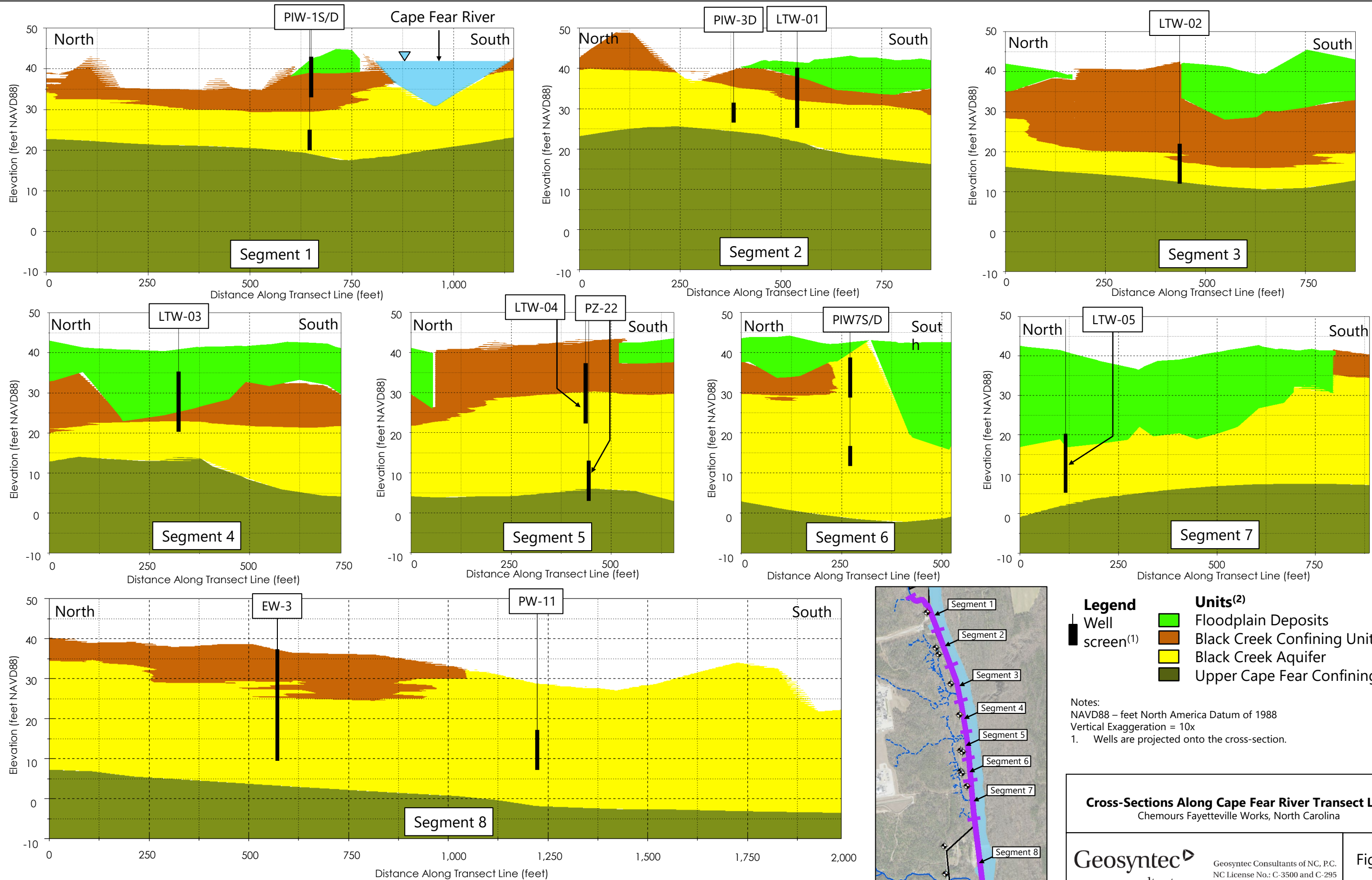
ft<sup>3</sup>/sec - cubic feet per second

gal/day - gallons per day



Path: P:\P\UP\Projects\TR0725\Database and GIS\GIS\Baseline Monitor\Work\dm\TR0725 - Black Creek Aquifer Segments for Groundwater Pathway\_G2022.mxd Last Revised: 8/16/2022 Author: JKeane

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



**Legend**

- Well screen<sup>(1)</sup>

**Units<sup>(2)</sup>**

- Floodplain Deposits
- Black Creek Confining Unit
- Black Creek Aquifer
- Upper Cape Fear Confining Unit

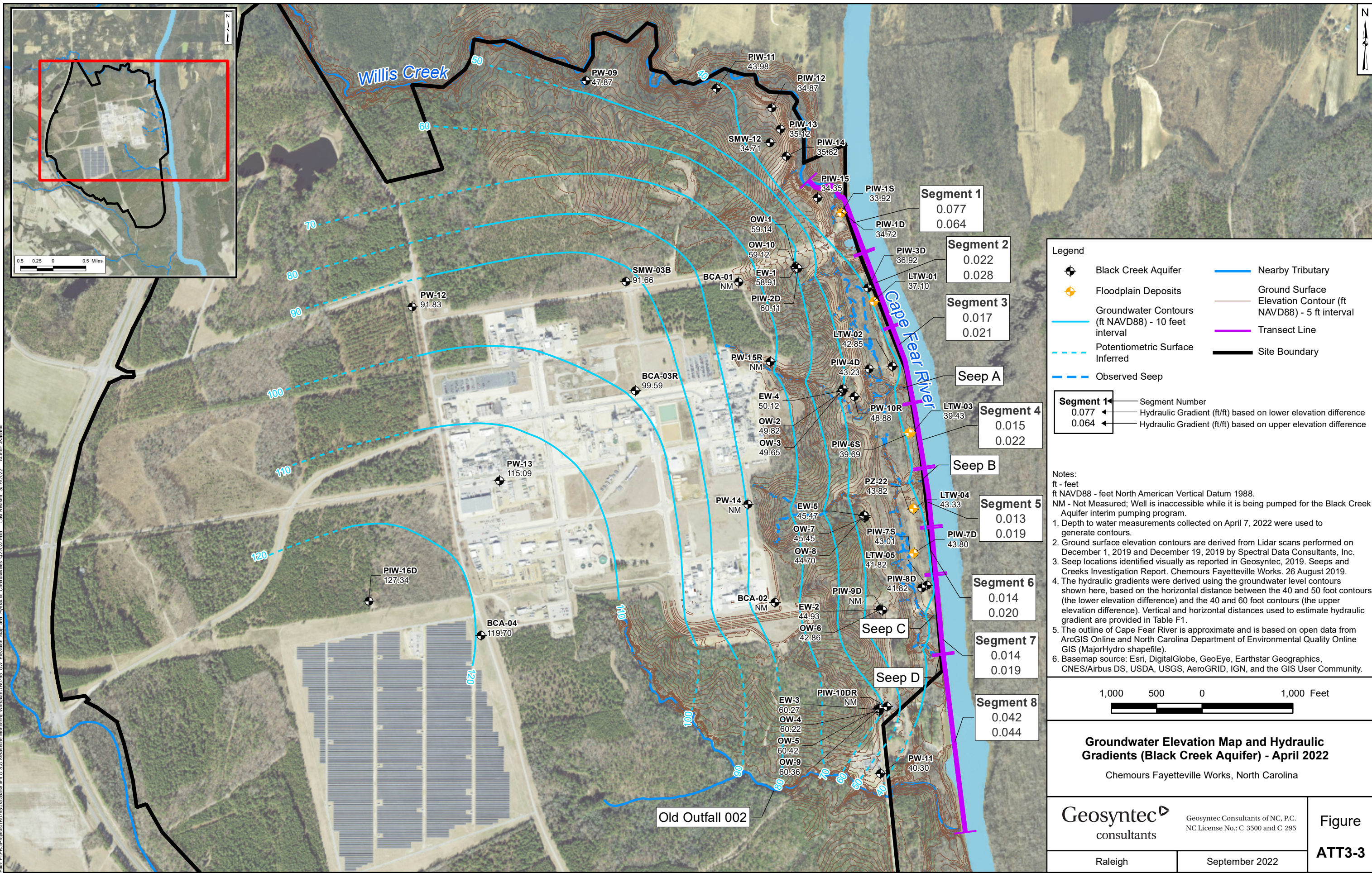
Notes:  
 NAVD88 – feet North America Datum of 1988  
 Vertical Exaggeration = 10x  
 1. Wells are projected onto the cross-section.

**Cross-Sections Along Cape Fear River Transect Line**  
 Chemours Fayetteville Works, North Carolina

	Geosyntec Consultants of NC, P.C. NC License No.: C-3500 and C-295
Raleigh	September 2022

Figure  
ATT3-2



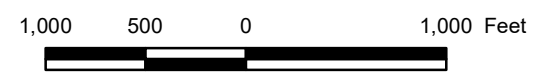


**Legend**

- Black Creek Aquifer
- Floodplain Deposits
- Groundwater Contours (ft NAVD88) - 10 feet interval
- Potentiometric Surface Inferred
- Observed Seep
- Nearby Tributary
- Ground Surface Elevation Contour (ft NAVD88) - 5 ft interval
- Transect Line
- Site Boundary

Segment Number	Hydraulic Gradient (ft/ft) based on lower elevation difference	Hydraulic Gradient (ft/ft) based on upper elevation difference
Segment 1	0.077	0.064
Segment 2	0.022	0.028
Segment 3	0.017	0.021
Segment 4	0.015	0.022
Segment 5	0.013	0.019
Segment 6	0.014	0.020
Segment 7	0.014	0.019
Segment 8	0.042	0.044

- Notes:**  
 ft - feet  
 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.
- Depth to water measurements collected on April 7, 2022 were used to generate contours.
  - Ground surface elevation contours are derived from Lidar scans performed on December 1, 2019 and December 19, 2019 by Spectral Data Consultants, Inc.
  - Seep locations identified visually as reported in Geosyntec, 2019. Seeps and Creeks Investigation Report. Chemours Fayetteville Works. 26 August 2019.
  - The hydraulic gradients were derived using the groundwater level contours shown here, based on the horizontal distance between the 40 and 50 foot contours (the lower elevation difference) and the 40 and 60 foot contours (the upper elevation difference). Vertical and horizontal distances used to estimate hydraulic gradient are provided in Table F1.
  - 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).
  - Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

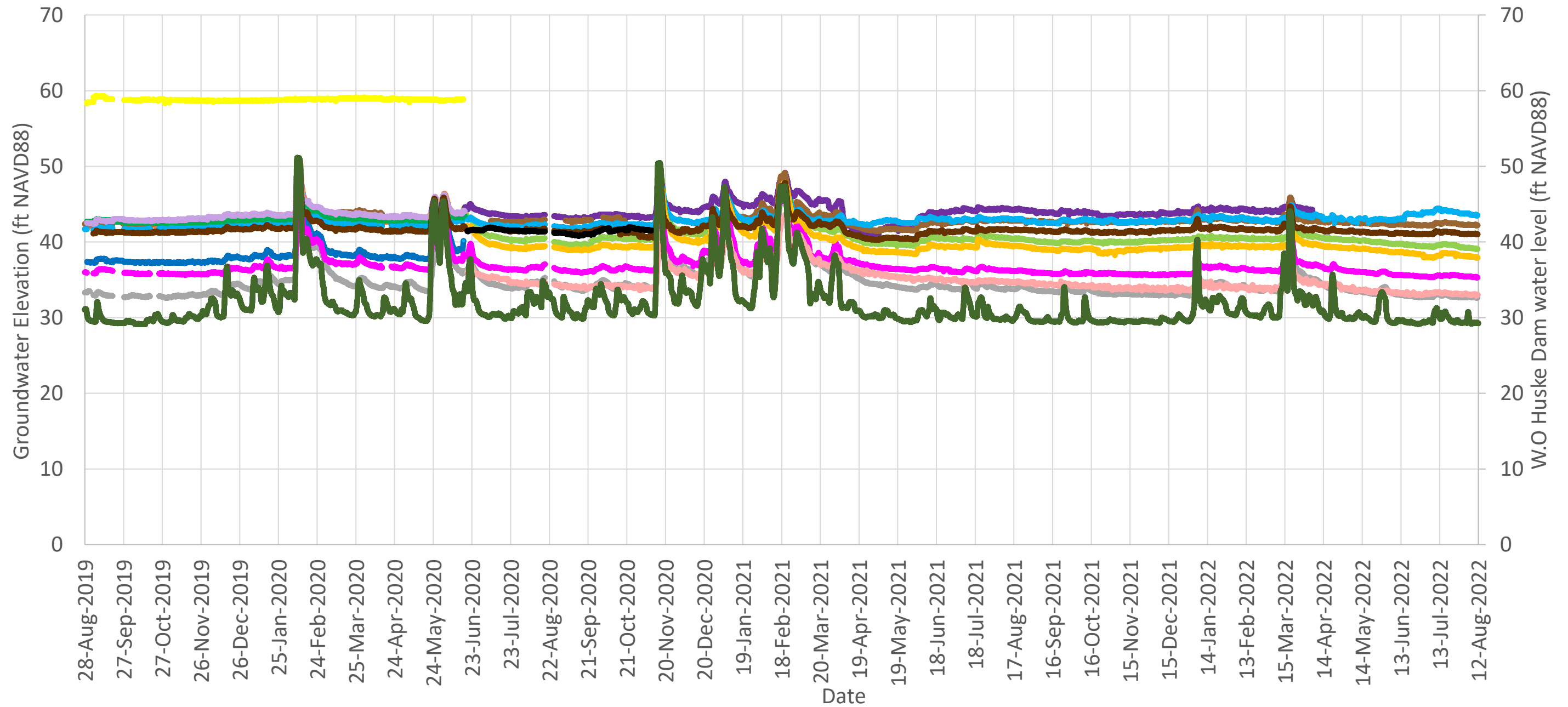


**Groundwater Elevation Map and Hydraulic Gradients (Black Creek Aquifer) - April 2022**  
 Chemours Fayetteville Works, North Carolina

	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295	<b>Figure</b> <b>ATT3-3</b>
	Raleigh	September 2022

File: P:\P\Projects\170725\170725\_GW\_Elevation\_Map\_and\_Hydraulic\_Conductivities\_Q2022.mxd - Last Revised: 8/16/2022 - Author: K.Kasim

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



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

<b>Hydrograph for Select Onsite Groundwater Monitoring Wells and W.O Huske Dam</b> Chemours Fayetteville Works, North Carolina	
<b>Geosyntec</b> consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295
Raleigh	September 2022

Figure  
**ATT3-4**

# Appendix B

## Supplemental Tables

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q1 2020	Q1 2020	Q1 2020	Q1 2020	Q1 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-83-033120	CFR-TARHEEL-83-033120-D	CAPIQ20-CFR-TARHEEL-040220	CFR-TARHEEL-48-040220	CAPIQ20-CFR-TARHEEL-24-040320
Sample Date	03/31/20	03/31/20	04/02/20	04/02/20	04/03/20
Sample Type	Composite	Composite	Grab	Composite	Composite
Sample Start Date and Time	03/28/20 1:00 AM	03/28/20 1:00 AM	-	03/31/20 1:00 PM	04/02/20 3:00 PM
Sample Stop Date and Time	03/31/20 12:00 PM	03/31/20 12:00 PM	-	04/02/20 1:00 PM	04/03/20 3:00 PM
Composite Duration (hours)	83	83	-	48	24
QA/QC		Field Duplicate			
Sample Delivery Group (SDG)	320-60098-1	320-60098-1	320-60029-1	320-60098-1	320-60032-1
Lab Sample ID	320-60098-1	320-60098-2	320-60029-3	320-60098-3	320-60032-2
<i>Table 3+ SOP (ng/L)</i>					
HFPO-DA	<15	6.3	11	10	18
PFMOAA	26	29	35	42	47
PFO2HxA	9.3	8.9	15	14	21
PFO3OA	2.1	<2	3.9	3.3	4.8
PFO4DA	<2	<2	<2	<2	<2
PFO5DA	<2	<2	<2	<2	<2
PMPA	15	12	24	17	31
PEPA	<20	<20	<20	<20	<20
PS Acid	<2	<2	<2	<2	<2
Hydro-PS Acid	<2	<2	<2	<2	<2
R-PSDA	<2	<2	8.5	7.9	14 J
Hydrolyzed PSDA	8.2 J	8.4 J	26	14 J	17 B
R-PSDCA	<2	<2	<2	<2	<2
NVHOS	<2	<2	2.3	<2	<2
EVE Acid	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2	<2
R-EVE	2.1 J	<2	6.6	<2	2.8 J
PES	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	16 J	13 J	12	12	11
<b>Total Attachment C<sup>1,2</sup></b>	<b>52</b>	<b>56</b>	<b>89</b>	<b>86</b>	<b>120</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>52</b>	<b>56</b>	<b>91</b>	<b>86</b>	<b>120</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>63</b>	<b>65</b>	<b>130</b>	<b>110</b>	<b>160</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q1 2020	Q1 2020	Q1 2020	Q1 2020	Q1 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-83-040620	CFR-TARHEEL-79-040920	CFR-TARHEEL-83-041920	CFR-TARHEEL-83-042220	CFR-TARHEEL-83-042620
Sample Date	04/06/20	04/09/20	04/19/20	04/22/20	04/26/20
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	04/02/20 1:30 PM	04/05/20 11:32 PM	04/15/20 2:30 PM	04/19/20 2:30 AM	04/22/20 1:49 PM
Sample Stop Date and Time	04/06/20 12:30 AM	04/09/20 6:30 AM	04/19/20 1:30 AM	04/22/20 1:30 PM	04/26/20 12:49 AM
Composite Duration (hours)	83	79	83	83	83
QA/QC					
Sample Delivery Group (SDG)	320-60098-1	320-60195-1	320-60435-1	320-60435-1	320-60619-1
Lab Sample ID	320-60098-4	320-60195-1	320-60435-1	320-60435-2	320-60619-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	17	20	5.5	12	11
PFMOAA	56	94	28	51	53
PFO2HxA	22	33	11	19	19
PFO3OA	5.5	8.1	2.6	5.1	4.8
PFO4DA	<2	2.8	<2	<2	<2
PFO5DA	<2	4.9	6.9	5.5	<2
PMPA	24	31	17	25	21
PEPA	<20	<20	<20	<20	<20
PS Acid	<2	<2	<2	<2	<2
Hydro-PS Acid	<2	<2	<2	<2	<2
R-PSDA	11	13	<2	<2	7.5
Hydrolyzed PSDA	20 J	31	9.6	17	23
R-PSDCA	<2	<2	<2	<2	<2
NVHOS	2.1	5	<2	<2	2.8
EVE Acid	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2	<2
R-EVE	<2	3.4	<2	<2	<2
PES	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	8.5	--	--	--	--
<b>Total Attachment C<sup>1,2</sup></b>	<b>120</b>	<b>190</b>	<b>71</b>	<b>120</b>	<b>110</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>130</b>	<b>200</b>	<b>71</b>	<b>120</b>	<b>110</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>160</b>	<b>250</b>	<b>81</b>	<b>130</b>	<b>140</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q1 2020	Q1 2020	Q1 2020	Q2 2020	Q2 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-83-042920	CFR-TARHEEL-62-050220	CFR-TARHEEL-83-050620	CFR-TARHEEL-83-051120	CFR-TARHEEL-83-051320
Sample Date	04/29/20	05/02/20	05/06/20	05/11/20	05/13/20
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	04/26/20 12:49 AM	04/30/20 9:49 AM	05/03/20 12:49 AM	05/06/20 12:49 PM	05/09/20 11:49 PM
Sample Stop Date and Time	04/29/20 11:49 AM	05/02/20 11:49 PM	05/06/20 11:49 AM	05/09/20 11:49 PM	05/13/20 9:49 AM
Composite Duration (hours)	83	62	83	83	83
QA/QC					
Sample Delivery Group (SDG)	320-60619-1	320-60763-1	320-60763-1	320-60789-1	410-2522-1
Lab Sample ID	320-60619-2	320-60763-1	320-60763-2	320-60789-1	410-2522-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	13	12	6.2	9.4	13 J
PFMOAA	59	27	18	34	69
PFO2HxA	24	16	9.8	14	27
PFO3OA	5.8	3.5	2.1	3.8	6.7
PFO4DA	<2	<2	<2	<2	2 J
PFO5DA	<2	<2	<2	<2	<2
PMPA	23	24	15	18	22
PEPA	<20	<20	<20	<20	<20
PS Acid	<2	<2	<2	<2	<2 UJ
Hydro-PS Acid	<2	<2	<2	<2	<2 UJ
R-PSDA	13	20	11	13	12 J
Hydrolyzed PSDA	27	18	12	15	34 J
R-PSDCA	<2	<2	<2	<2	<2
NVHOS	3.9	3.3	<2	2.3	2.9
EVE Acid	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2	<2
R-EVE	2.4	6	<2	2.7	5.2 J
PES	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	--	--	--	--	--
<b>Total Attachment C<sup>1,2</sup></b>	<b>120</b>	<b>83</b>	<b>51</b>	<b>79</b>	<b>140</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>130</b>	<b>86</b>	<b>51</b>	<b>82</b>	<b>140</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>170</b>	<b>130</b>	<b>74</b>	<b>110</b>	<b>190</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q2 2020	Q2 2020	Q2 2020	Q2 2020	Q2 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CAP2Q20-CFR-TARHEEL-051420	CAP2Q20-TARHEEL-24-051420	CFR-TARHEEL-83-051620	CFR-TARHEEL-83-052020	CFR-TARHEEL-052520
Sample Date	05/14/20	05/14/20	05/16/20	05/20/20	05/25/20
Sample Type	Grab	Composite	Composite	Composite	Grab
Sample Start Date and Time	-	05/13/20 9:50 PM	05/13/20 9:49 AM	05/16/20 9:49 PM	-
Sample Stop Date and Time	-	05/14/20 8:50 PM	05/16/20 7:49 PM	05/20/20 8:49 AM	-
Composite Duration (hours)	-	24	83	83	-
QA/QC					
Sample Delivery Group (SDG)	320-60921-1	410-2521-1	410-2522-1	410-2522-1	320-61296-1
Lab Sample ID	320-60921-3	410-2521-4	410-2522-2	410-2522-3	320-61296-2
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	24	23	19 J	25	2
PFMOAA	75	88	94	120	<5
PFO2HxA	34	33	37	45	2.2
PFO3OA	8.9	8.6	8.2	10	<2
PFO4DA	2.4	2.5 J	2.5 J	3	<2
PFO5DA	<2	<2	<2	<2	<2
PMPA	49	28	27	32	<10
PEPA	<20	<20	<20	20	<20
PS Acid	<2	<2 UJ	<2 UJ	2.2 J	<2
Hydro-PS Acid	<2	<2 UJ	<2 UJ	<2 UJ	<2
R-PSDA	33	16 J	15 J	15 J	<2
Hydrolyzed PSDA	30	46 J	47 J	54 J	3.4
R-PSDCA	<2	<2	<2	<2	<2
NVHOS	4.6	4.8	4.4	3.8	<2
EVE Acid	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2	<2
R-EVE	5.6	4.9 J	6.3 J	8.1 J	2
PES	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	9.8	6.7	--	--	--
<b>Total Attachment C<sup>1,2</sup></b>	<b>190</b>	<b>180</b>	<b>190</b>	<b>260</b>	<b>4.2</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>200</b>	<b>190</b>	<b>190</b>	<b>260</b>	<b>4.2</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>270</b>	<b>250</b>	<b>260</b>	<b>340</b>	<b>9.6</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q2 2020	Q2 2020	Q2 2020	Q2 2020	Q2 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-052920	CFR-TARHEEL-060120	CFR-TARHEEL-060120-D	CFR-TARHEEL-060520	CFR-TARHEEL-39-060820
Sample Date	05/29/20	06/01/20	06/01/20	06/05/20	06/08/20
Sample Type	Grab	Grab	Grab	Grab	Composite
Sample Start Date and Time	-	-	-	-	06/05/20 11:06 AM
Sample Stop Date and Time	-	-	-	-	06/08/20 9:06 PM
Composite Duration (hours)	-	-	-	-	39
QA/QC			Field Duplicate		
Sample Delivery Group (SDG)	320-61296-1	320-61452-1	320-61452-1	320-61570-1	320-61852-1
Lab Sample ID	320-61296-1	320-61452-1	320-61452-2	320-61570-1	320-61852-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	4.5	<2	2	4.6	6.5
PFMOAA	<5	6.1	5.3	9	9.8
PFO2HxA	6.5	3.1	3.2	6.5	8.3
PFO3OA	<2	<2	<2	<2	<2
PFO4DA	<2	<2	<2	<2	<2
PFO5DA	<2	<2	<2	<2	<2
PMPA	<10	<13	<13	27	17
PEPA	<20	<2	<2	<2	<2
PS Acid	<2	<2	<2	<2	3.4
Hydro-PS Acid	<2	<2	<2	<2	<2
R-PSDA	<2	2.6	<2	<2	5.9
Hydrolyzed PSDA	<2	2.9	2.6	5.5	7.2
R-PSDCA	<2	<2	<2	<2	<2
NVHOS	<2	<2	<2	<2	<2
EVE Acid	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2	<2
R-EVE	<2	<2	<2	<2	<2
PES	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	--	--	--	--	--
<b>Total Attachment C<sup>1,2</sup></b>	<b>11</b>	<b>9.2</b>	<b>11</b>	<b>47</b>	<b>45</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>11</b>	<b>9.2</b>	<b>11</b>	<b>47</b>	<b>45</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>11</b>	<b>15</b>	<b>13</b>	<b>53</b>	<b>58</b>



**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q2 2020	Q2 2020	Q2 2020	Q2 2020	Q2 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-83-061220	CFR-TARHEEL-83-061520	CFR-TARHEEL-83-061920	CFR-TARHEEL-83-062220	CFR-TARHEEL-83-062620
Sample Date	06/12/20	06/15/20	06/19/20	06/22/20	06/26/20
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	06/08/20 10:06 PM	06/12/20 9:06 AM	06/15/20 8:06 PM	06/19/20 7:06 AM	06/22/20 6:06 PM
Sample Stop Date and Time	06/12/20 8:06 AM	06/15/20 7:06 PM	06/19/20 6:06 AM	06/22/20 5:06 PM	06/26/20 4:06 AM
Composite Duration (hours)	83	83	83	83	83
QA/QC					
Sample Delivery Group (SDG)	320-61852-1	320-62010-1	320-62010-1	320-62127-1	320-62407-1
Lab Sample ID	320-61852-2	320-62010-1	320-62010-2	320-62127-1	320-62407-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	10	15	16	5.8	9.9
PFMOAA	17 J	14	11	4.9	30
PFO2HxA	13	13	18	8	13
PFO3OA	3.4	3	3.8	<2	2.8
PFO4DA	<2	<2	<2	<2	<2
PFO5DA	<2	<2	<2	<2	<2
PMPA	25	27	36	21	20
PEPA	3.2	3.2	5.4	<2	3.2
PS Acid	<2	<2	<2	<2	<2
Hydro-PS Acid	<2	<2	<2	<2	<2
R-PSDA	8.5 J	4.7	5.1	5.6	11
Hydrolyzed PSDA	9.1 J	8	7.2	4.1	12
R-PSDCA	<2	<2	<2	<2	<2
NVHOS	<2	<2	<2	<2	<2
EVE Acid	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2	<2
R-EVE	3.8 J	<2	<2	<2	3.5
PES	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	--	--	--	--	--
<b>Total Attachment C<sup>1,2</sup></b>	72	75	90	40	79
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	72	75	90	40	79
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	93	88	100	49	110

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q2 2020	Q3 2020	Q3 2020	Q3 2020	Q3 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-83-062920	CFR-TARHEEL-65-070220	CFR-TARHEEL-24-070320	CFR-TARHEEL-24-070720	CFR-TARHEEL-24-071020
Sample Date	06/29/20	07/02/20	07/03/20	07/07/20	07/10/20
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	06/26/20 5:06 AM	06/29/20 4:06 PM	07/02/20 8:29 AM	07/06/20 8:29 AM	07/09/20 12:01 PM
Sample Stop Date and Time	06/29/20 3:06 PM	07/02/20 8:06 AM	07/03/20 7:29 AM	07/07/20 7:29 AM	07/10/20 11:01 AM
Composite Duration (hours)	83	65	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-62407-1	320-62407-1	320-62486-1	320-62486-1	320-62645-1
Lab Sample ID	320-62407-2	320-62407-3	320-62486-2	320-62486-1	320-62645-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	15	19	19	19	15
PFMOAA	49	<2	60	97	77
PFO2HxA	18	25	26	31	25
PFO3OA	4	5.5	5.6	6.7	5.2
PFO4DA	<2	2.5 J	2	3	<2
PFO5DA	<2	<2	<2	<2	<2
PMPA	26	27	39	30	26
PEPA	4.5	5.2	<10	<10	<10
PS Acid	<2	<2	<2	<2	<2
Hydro-PS Acid	<2	<2	<2	<2	<2
R-PSDA	15	4.2	22	23	12
Hydrolyzed PSDA	17	12	28	34	32
R-PSDCA	<2	<2	<2	<2	<2
NVHOS	2.5	3.1	3.3	4.5	3.4
EVE Acid	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2	<2
R-EVE	4.9	<2	6.1	5.9	4.3
PES	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	--	--	--	--	--
<b>Total Attachment C<sup>1,2</sup></b>	<b>120</b>	<b>84</b>	<b>150</b>	<b>190</b>	<b>150</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>120</b>	<b>87</b>	<b>150</b>	<b>190</b>	<b>150</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>160</b>	<b>100</b>	<b>210</b>	<b>250</b>	<b>200</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q3 2020	Q3 2020	Q3 2020	Q3 2020	Q3 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-071020-D	CFR-TARHEEL-24-071320	CFR-TARHEEL-24-071620	CFR-TARHEEL-24-072020	CFR-TARHEEL-24-072320
Sample Date	07/10/20	07/13/20	07/16/20	07/20/20	07/23/20
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	07/09/20 12:01 PM	07/13/20 12:01 AM	07/16/20 12:01 AM	07/20/20 12:01 AM	07/23/20 12:01 AM
Sample Stop Date and Time	07/10/20 11:01 AM	07/13/20 11:01 PM	07/16/20 11:01 PM	07/20/20 11:01 PM	07/23/20 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC	Field Duplicate				
Sample Delivery Group (SDG)	320-62645-1	320-62689-1	320-62879-1	320-63057-1	320-63287-1
Lab Sample ID	320-62645-2	320-62689-1	320-62879-1	320-63057-1	320-63287-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	15	16	20	26	20
PFMOAA	78	60	76	100	67
PFO2HxA	28	28	31	29	29
PFO3OA	5.9	6.9	6.5	9.4	6.6
PFO4DA	<2	2.8	2.4	4.8	2.6
PFO5DA	<2	<2	<2	2.7	2
PMPA	27	27	29	<20	24
PEPA	<10	<10	<10	<10	<10
PS Acid	<2	2.3	<2	2.7	<2
Hydro-PS Acid	<2	<2	<2	<2	<2
R-PSDA	12	22	13	<2	17
Hydrolyzed PSDA	34	32	24	<2	29
R-PSDCA	<2	<2	<2	<2	<2
NVHOS	3	3.3	3.5	3.4	4.4
EVE Acid	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2	<2
R-EVE	5.8	6	3.9	<2	<2
PES	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	--	--	--	--	--
<b>Total Attachment C<sup>1,2</sup></b>	<b>150</b>	<b>140</b>	<b>160</b>	<b>170</b>	<b>150</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>160</b>	<b>150</b>	<b>170</b>	<b>180</b>	<b>160</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>210</b>	<b>210</b>	<b>210</b>	<b>180</b>	<b>200</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q3 2020	Q3 2020	Q3 2020	Q3 2020	Q3 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-12-072720	CAP3Q20-CFR-TARHEEL-072820	CAP3Q20-CFR-TARHEEL-24-072920	CFR-TARHEEL-24-073020	CFR-TARHEEL-080320
Sample Date	07/27/20	07/28/20	07/29/20	07/30/20	08/03/20
Sample Type	Composite	Grab	Composite	Composite	Grab
Sample Start Date and Time	07/27/20 12:01 AM	-	07/29/20 12:01 AM	07/30/20 12:01 AM	-
Sample Stop Date and Time	07/27/20 11:01 AM	-	07/29/20 11:01 PM	07/30/20 11:01 PM	-
Composite Duration (hours)	12	-	24	24	-
QA/QC					
Sample Delivery Group (SDG)	320-63287-1	320-63225-2	320-63304-2	320-63442-1	320-63442-1
Lab Sample ID	320-63287-2	320-63225-1	320-63304-1	320-63442-1	320-63442-2
<i>Table 3+ SOP (ng/L)</i>					
HFPO-DA	14	14 J	14	11	15
PFMOAA	41	39	54	41	48
PFO2HxA	19	19	21	18	23
PFO3OA	3.9	4.4	5.2	5	5.4
PFO4DA	<2	<2	<2	2.7	2.3
PFO5DA	<2	<2	<2	<2	<2
PMPA	<20	<20	<20	<20	21
PEPA	<10	<10	<10	<10	<10
PS Acid	<2	<2	<2	<2	<2
Hydro-PS Acid	<2	<2	<2	<2	<2
R-PSDA	12	<2	<2	<2	<2
Hydrolyzed PSDA	14	<2	20	18	21
R-PSDCA	<2	<2	<2	<2	<2
NVHOS	3.5	2.9	2.8	3.4	2.7
EVE Acid	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2	<2
R-EVE	<2	<2	<2	<2	<2
PES	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	--	3.7	3.1	3.2	4.8
<b>Total Attachment C<sup>1,2</sup></b>	<b>78</b>	<b>76</b>	<b>94</b>	<b>78</b>	<b>110</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>81</b>	<b>79</b>	<b>97</b>	<b>81</b>	<b>120</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>110</b>	<b>79</b>	<b>120</b>	<b>99</b>	<b>140</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q3 2020	Q3 2020	Q3 2020	Q3 2020	Q3 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-080420	CFR-TARHEEL-24-080620	CFR-TARHEEL-24-081020	CFR-TARHEEL-24-081220	CFR-TARHEEL-24-081720
Sample Date	08/04/20	08/06/20	08/10/20	08/12/20	08/17/20
Sample Type	Grab	Composite	Composite	Composite	Composite
Sample Start Date and Time	-	08/05/20 11:55 PM	08/09/20 10:38 PM	08/12/20 12:01 AM	08/17/20 12:01 AM
Sample Stop Date and Time	-	08/06/20 10:55 PM	08/10/20 9:56 PM	08/12/20 11:01 PM	08/17/20 11:01 PM
Composite Duration (hours)	-	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-63442-1	320-63737-1	320-63737-1	320-63779-1	320-64174-1
Lab Sample ID	320-63442-3	320-63737-1	320-63737-2	320-63779-1	320-64174-5
<i>Table 3+ SOP (ng/L)</i>					
HFPO-DA	44	4.8	7.8	5.8	3.4
PFMOAA	47	8.1	<2	27	15
PFO2HxA	37	8.1	20	11	6.2
PFO3OA	10	<2	6	2.1	<2
PFO4DA	4.3	<2	2.2	<2	<2
PFO5DA	<2	<2	<2	<2	<2
PMPA	45	<20	<20	<20	<20
PEPA	12	<10	<10	<10	<10
PS Acid	4.6	<2	<2	<2	<2
Hydro-PS Acid	2.9	<2	<2	<2	<2
R-PSDA	<2	<2	<2	7.4	3.8
Hydrolyzed PSDA	32	2.5	<2	15	6.4
R-PSDCA	<2	<2	<2	<2	<2
NVHOS	2.4	<2	<2	<2	<2
EVE Acid	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2	<2
R-EVE	<2	<2	<2	3.9	<2
PES	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	4.9	2.6	4.6	3.8	2.5
<b>Total Attachment C<sup>1,2</sup></b>	<b>210</b>	<b>21</b>	<b>36</b>	<b>46</b>	<b>25</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>210</b>	<b>21</b>	<b>36</b>	<b>46</b>	<b>25</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>240</b>	<b>24</b>	<b>36</b>	<b>72</b>	<b>35</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q3 2020	Q3 2020	Q3 2020	Q3 2020	Q3 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-082020	CFR-TARHEEL-24-082520	CFR-TARHEEL-082720	CFR-TARHEEL-082720-D	CFR-TARHEEL-083120
Sample Date	08/20/20	08/25/20	08/27/20	08/27/20	08/31/20
Sample Type	Composite	Composite	Grab	Grab	Grab
Sample Start Date and Time	08/20/20 12:01 AM	08/25/20 12:01 AM	-	-	-
Sample Stop Date and Time	08/20/20 11:01 PM	08/25/20 11:01 PM	-	-	-
Composite Duration (hours)	24	24	-	-	-
QA/QC				Field Duplicate	
Sample Delivery Group (SDG)	320-64174-1	320-64174-1	320-64174-1	320-64174-1	320-64174-1
Lab Sample ID	320-64174-6	320-64174-1	320-64174-2	320-64174-3	320-64174-4
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	6.2	7.1	12	12	18
PFMOAA	26	33	63	64	100
PFO2HxA	12	15	24	24	35
PFO3OA	2.3	3	5.3	5.6	7.8
PFO4DA	<2	<2	2	<2	2.8
PFO5DA	<2	<2	<2	<2	<2
PMPA	<20	<20	23	23	31
PEPA	<10	<10	<10	<10	<10
PS Acid	<2	<2	<2	<2	2.7
Hydro-PS Acid	<2	<2	<2	<2	<2
R-PSDA	6.1	<2	<2 UJ	8 J	11
Hydrolyzed PSDA	11	<2	22	23	38
R-PSDCA	<2	<2	<2	<2	<2
NVHOS	<2	<2	<2	<2	2.7
EVE Acid	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2	<2
R-EVE	<2	<2	<2	2.9	4.7
PES	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	2.8	3.5	3.7	4	5.6
<b>Total Attachment C<sup>1,2</sup></b>	<b>47</b>	<b>58</b>	<b>130</b>	<b>130</b>	<b>200</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>47</b>	<b>58</b>	<b>130</b>	<b>130</b>	<b>200</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>64</b>	<b>58</b>	<b>150</b>	<b>160</b>	<b>250</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q3 2020	Q3 2020	Q3 2020	Q3 2020	Q3 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-090320	CFR-TARHEEL-24-090720	CFR-TARHEEL-24-091020	CFR-TARHEEL-24-091420	CFR-TARHEEL-24-091720
Sample Date	09/03/20	09/07/20	09/10/20	09/14/20	09/17/20
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	09/03/20 12:01 AM	09/07/20 12:01 AM	09/10/20 12:01 AM	09/14/20 12:01 AM	09/17/20 12:01 AM
Sample Stop Date and Time	09/03/20 11:01 PM	09/07/20 11:01 PM	09/10/20 11:01 PM	09/14/20 11:01 PM	09/17/20 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-64517-1	320-64517-1	320-64776-1	320-64776-1	320-64846-1
Lab Sample ID	320-64517-1	320-64517-2	320-64776-1	320-64776-2	320-64846-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	7.8	12	26	18	25
PFMOAA	21	26	55	36	<2
PFO2HxA	12	17	31	25	32
PFO3OA	3.4	4.2	7.3	5.3	7.2
PFO4DA	<2	<2	2.1	<2	2.7
PFO5DA	<2	<2	<2	<2	<2
PMPA	<20	<20	30	<20	33
PEPA	<10	<10	<10	<10	<10
PS Acid	<2	<2	3.7	<2	2
Hydro-PS Acid	<2	<2	<2	<2	2.8
R-PSDA	3.4	<2	14	4.2	9.7
Hydrolyzed PSDA	8.6	15	41	24	29
R-PSDCA	<2	<2	<2	<2	<2
NVHOS	<2	<2	3	4	5.8
EVE Acid	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2	<2
R-EVE	<2	<2	6.3	<2	3.2
PES	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	2.5	2.3	5.5	4.8	5
<b>Total Attachment C<sup>1,2</sup></b>	<b>44</b>	<b>59</b>	<b>160</b>	<b>84</b>	<b>100</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>44</b>	<b>59</b>	<b>160</b>	<b>88</b>	<b>110</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>56</b>	<b>74</b>	<b>220</b>	<b>120</b>	<b>150</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q3 2020	Q3 2020	Q3 2020	Q3 2020	Q3 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-11-091820	CFR-TARHEEL-24-092120	CFR-TARHEEL-24-092420	CFR-TARHEEL-24-092420-2	CFR-TARHEEL-24-092520
Sample Date	09/18/20	09/21/20	09/24/20	09/24/20	09/25/20
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	09/18/20 12:01 AM	09/21/20 12:01 AM	09/24/20 12:01 AM	09/24/20 12:01 AM	09/25/20 12:01 AM
Sample Stop Date and Time	09/18/20 10:01 AM	09/21/20 11:01 PM	09/24/20 11:01 PM	09/24/20 11:01 PM	09/25/20 11:01 PM
Composite Duration (hours)	11	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-64920-1	320-65132-1	320-65132-1	320-65132-1	320-65132-1
Lab Sample ID	320-64920-1	320-65132-1	320-65132-2	320-65132-2	320-65132-3
<i>Table 3+ SOP (ng/L)</i>					
HFPO-DA	42	7.3	11	11	11
PFMOAA	<2	7.9	14	14	12
PFO2HxA	39	8.7	9.8	9.8	12
PFO3OA	9	<2	2.9	2.9	2.9
PFO4DA	4.2	<2	<2	<2	<2
PFO5DA	<2	<2	<2	<2	<2
PMPA	46	34	31	31	32
PEPA	11	<10	<10	<10	<10
PS Acid	8.3	<2	<2	<2	<2
Hydro-PS Acid	4.3	<2	<2	<2	<2
R-PSDA	52	<2	<2	<2	<2
Hydrolyzed PSDA	47	9.4	11	11	14
R-PSDCA	<2	<2	<2	<2	<2
NVHOS	5.7	<2	<2	<2	<2
EVE Acid	2.4	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2	<2
R-EVE	7.5	<2	<2	<2	<2
PES	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	4.3	4.1 J	5.6 J	5.6 J	5.7 J
<b>Total Attachment C<sup>1,2</sup></b>	<b>160</b>	<b>58</b>	<b>69</b>	<b>69</b>	<b>70</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>170</b>	<b>58</b>	<b>69</b>	<b>69</b>	<b>70</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>280</b>	<b>67</b>	<b>80</b>	<b>80</b>	<b>84</b>



**TABLE B1**  
**CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS**  
**Chemours Fayetteville Works, North Carolina**

Sampling Event	Q3 2020	Q3 2020	Q3 2020	Q3 2020	Q4 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-092620	CFR-TARHEEL-24-092820	CFR-TARHEEL-24-092920	CFR-TARHEEL-24-093020	CFR-TARHEEL-18-100120
Sample Date	09/26/20	09/28/20	09/29/20	09/30/20	10/01/20
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	09/26/20 12:01 AM	09/28/20 12:01 AM	09/29/20 12:01 AM	09/30/20 12:01 AM	10/01/20 12:01 AM
Sample Stop Date and Time	09/26/20 11:01 PM	09/28/20 11:01 PM	09/29/20 11:01 PM	09/30/20 11:01 PM	10/01/20 5:01 PM
Composite Duration (hours)	24	24	24	24	18
QA/QC					
Sample Delivery Group (SDG)	320-65132-1	320-65188-1	320-65521-1	320-65283-1	320-65521-1
Lab Sample ID	320-65132-4	320-65188-1	320-65521-1	320-65283-1	320-65521-2
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	12	6.1	5.3	11	5.3
PFMOAA	8.8	6.3	4.1	23	2.9
PFO2HxA	13	6.2	6.8	12	6.6
PFO3OA	2.6	<2	<2	2.5	<2
PFO4DA	<2	<2	<2	<2	<2
PFO5DA	<2	<2	<2	<2	<2
PMPA	34	32	<20	25	<20
PEPA	<10	<10	<10	<10	<10
PS Acid	<2	<2	<2	<2	<2
Hydro-PS Acid	<2	<2	<2	<2	<2
R-PSDA	<2	<2	<2	7.4	<2
Hydrolyzed PSDA	13	7.1	5.4	12	<2
R-PSDCA	<2	<2	<2	<2	<2
NVHOS	<2	<2	<2	<2	<2
EVE Acid	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2	<2
R-EVE	<2	<2	<2	2.9	<2
PES	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	5.1 J	3.4 J	3.9	4.9	5.5
<b>Total Attachment C<sup>1,2</sup></b>	<b>70</b>	<b>51</b>	<b>16</b>	<b>74</b>	<b>15</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>70</b>	<b>51</b>	<b>16</b>	<b>74</b>	<b>15</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>83</b>	<b>58</b>	<b>22</b>	<b>96</b>	<b>15</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q4 2020	Q4 2020	Q4 2020	Q4 2020	Q4 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-9-100620	CFR-TARHEEL-24-100820	CFR-TARHEEL-24-101220	CFR-TARHEEL-24-101520	CFR-TARHEEL-24-101920
Sample Date	10/06/20	10/08/20	10/12/20	10/15/20	10/19/20
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	10/06/20 2:30 PM	10/07/20 5:30 PM	10/12/20 12:01 AM	10/15/20 12:01 AM	10/19/20 12:01 AM
Sample Stop Date and Time	10/06/20 11:30 PM	10/08/20 4:30 PM	10/12/20 11:01 PM	10/15/20 11:01 PM	10/19/20 11:01 PM
Composite Duration (hours)	9	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-65521-1	320-65521-1	320-65571-1	320-65803-1	320-65803-1
Lab Sample ID	320-65521-3	320-65521-4	320-65571-1	320-65803-1	320-65803-2
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	8.1	13	23	4.5	6.0
PFMOAA	3.9	7.4	54	15	18
PFO2HxA	9.9	15	30	6.9	7.6
PFO3OA	2.1	3.6	13	<2	<2
PFO4DA	<2	<2	7.9	<2	<2
PFO5DA	<2	<2	3.5	<2	<2
PMPA	<20	<20	33	<20	<20
PEPA	<10	<10	<10	<10	<10
PS Acid	<2	<2	2.2	<2	<2
Hydro-PS Acid	<2	<2	<2	<2	<2
R-PSDA	<2	<2	20	3.4	4.1
Hydrolyzed PSDA	5.1	7.6	21	5	6.2
R-PSDCA	<2	<2	<2	<2	<2
NVHOS	<2	<2	3.1	<2	<2
EVE Acid	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2	<2
R-EVE	<2	<2	4.7	<2	<2
PES	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	5.4	5.5	4	3.8	5.5
<b>Total Attachment C<sup>1,2</sup></b>	<b>24</b>	<b>39</b>	<b>170</b>	<b>26</b>	<b>32</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>24</b>	<b>39</b>	<b>170</b>	<b>26</b>	<b>32</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>29</b>	<b>47</b>	<b>220</b>	<b>35</b>	<b>42</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q4 2020	Q4 2020	Q4 2020	Q4 2020	Q4 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-102220	CFR-TARHEEL-12-103020	CFR-TARHEEL-24-103120	CFR-TARHEEL-24-110220	CFR-TARHEEL-24-110520
Sample Date	10/22/20	10/30/20	10/31/20	11/02/20	11/05/20
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	10/22/20 12:01 AM	10/30/20 12:01 PM	10/31/20 12:01 AM	11/02/20 12:01 AM	11/05/20 12:01 AM
Sample Stop Date and Time	10/22/20 11:01 PM	10/30/20 11:01 PM	10/31/20 11:01 PM	11/02/20 11:01 PM	11/05/20 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-66072-1	320-66384-1	320-66384-1	320-66384-1	320-66511-1
Lab Sample ID	320-66072-1	320-66384-1	320-66384-2	320-66384-3	320-66511-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	7.2	11	8.8	7.0	5.9
PFMOAA	7	29	27	15	22
PFO2HxA	8.3	13	11	8.5	9.3
PFO3OA	<2	3.1	2.5	<2	2.2
PFO4DA	<2	<2	<2	<2	<2
PFO5DA	<2	<2	<2	<2	<2
PMPA	28	<20	21	20	26
PEPA	<10	<10	<10	<10	<10
PS Acid	<2	<2	<2	<2	<2
Hydro-PS Acid	<2	<2	<2	<2	<2
R-PSDA	<2	11 J	9.1 J	<2	<2
Hydrolyzed PSDA	<2	8.5	6.1	3.9	5.2
R-PSDCA	<2	<2	<2	<2	<2
NVHOS	<2	3.5	3.8	3.3	<2
EVE Acid	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2	<2
R-EVE	<2	2.8 J	2.2 J	<2	<2
PES	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	5.1	4.5	4.9	6	4.9
<b>Total Attachment C<sup>1,2</sup></b>	<b>51</b>	<b>56</b>	<b>70</b>	<b>51</b>	<b>65</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>51</b>	<b>60</b>	<b>74</b>	<b>54</b>	<b>65</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>51</b>	<b>82</b>	<b>92</b>	<b>58</b>	<b>71</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q4 2020	Q4 2020	Q4 2020	Q4 2020	Q4 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-110920	CFR-TARHEEL-24-111120	CFR-TARHEEL-20-111220	CFR-TARHEEL-111320	CFR-TARHEEL-111820
Sample Date	11/09/20	11/11/20	11/12/20	11/13/20	11/18/20
Sample Type	Composite	Composite	Composite	Grab	Grab
Sample Start Date and Time	11/09/20 12:01 AM	11/11/20 12:01 AM	11/12/20 12:01 AM	--	--
Sample Stop Date and Time	11/09/20 11:01 PM	11/11/20 11:01 PM	11/12/20 7:01 PM	--	--
Composite Duration (hours)	24	24	20	--	--
QA/QC					
Sample Delivery Group (SDG)	320-66794-1	320-66794-1	320-66794-1	320-67088-1	320-67088-1
Lab Sample ID	320-66794-1	320-66794-2	320-66794-3	320-67088-1	320-67088-2
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	12 J	14	46	2.8	6
PFMOAA	35 J	38	48	<2	8.1
PFO2HxA	17 J	18	45	3.3	7.7
PFO3OA	3.9 J	3.6	11	<2	<2
PFO4DA	<2 UJ	<2	7.3	<2	<2
PFO5DA	<2 UJ	<2	5.3	<2	<2
PMPA	22 J	<20	52	<20	<20
PEPA	<10 UJ	<10	16	<10	<10
PS Acid	<2 UJ	<2	2.6	<2	<2
Hydro-PS Acid	<2 UJ	<2	2.9	<2	<2
R-PSDA	16 J	16	39	<2	6.2
Hydrolyzed PSDA	14 J	15	21	<2	2.5
R-PSDCA	<2 UJ	<2	<2	<2	<2
NVHOS	2.8 J	3.8	3.3	<2	<2
EVE Acid	<2 UJ	<2	2.1	<2	<2
Hydro-EVE Acid	<2 UJ	<2	<2	<2	<2
R-EVE	3.4 J	3.9	11	<2	<2
PES	<2 UJ	<2	<2	<2	<2
PFECA B	<2 UJ	<2	<2	<2	<2
PFECA-G	<2 UJ	<2	<2	<2	<2
Perfluoroheptanoic Acid	4.2 J	3.8	3.6	3.1	2.6
<b>Total Attachment C<sup>1,2</sup></b>	<b>90</b>	<b>74</b>	<b>240</b>	<b>6.1</b>	<b>22</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>93</b>	<b>77</b>	<b>240</b>	<b>6.1</b>	<b>22</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>130</b>	<b>110</b>	<b>310</b>	<b>6.1</b>	<b>31</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q4 2020	Q4 2020	Q4 2020	Q4 2020	Q4 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL <sup>4</sup>	CFR-TARHEEL	CFR-TARHEEL <sup>4</sup>
Field Sample ID	CFR-TARHEEL-112020	CFR-TARHEEL-24-112420	CFR-TARHEEL-24-112420	CFR-TARHEEL-24-112620	CFR-TARHEEL-24-112620
Sample Date	11/20/20	11/24/20	11/24/20	11/26/20	11/26/20
Sample Type	Grab	Composite	Composite	Composite	Composite
Sample Start Date and Time	--	11/24/20 12:01 AM	11/24/20 12:01 AM	11/26/20 12:01 AM	11/26/20 12:01 AM
Sample Stop Date and Time	--	11/24/20 11:01 PM	11/24/20 11:01 PM	11/26/20 11:01 PM	11/26/20 11:01 PM
Composite Duration (hours)	--	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-67088-1	320-67335-1	320-67335-2	320-67335-1	320-67335-2
Lab Sample ID	320-67088-3	320-67335-1	320-67335-1	320-67335-2	320-67335-2
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	6.1	<2	7.2 J	100	7.8 J
PFMOAA	10	<2	18 J	23 J	21 J
PFO2HxA	7.5	2.3	6.1 J	100	7.4 J
PFO3OA	<2	<2	<2 UJ	14	<2 UJ
PFO4DA	<2	<2	<2 UJ	13	<2 UJ
PFO5DA	<2	<2	<2 UJ	<2	<2 UJ
PMPA	<20	<20	<20 UJ	92	<20 UJ
PEPA	<10	<10	<10 UJ	27	<10 UJ
PS Acid	<2	<2	<2 UJ	<2	<2 UJ
Hydro-PS Acid	<2	<2	<2 UJ	8	<2 UJ
R-PSDA	7.1	<2	3.3 J	5.5	4.1 J
Hydrolyzed PSDA	4.9	<2	3.5 J	<2	4.3 J
R-PSDCA	<2	<2	<2 UJ	<2	<2 UJ
NVHOS	<2	<2	<2 UJ	<2	<2 UJ
EVE Acid	<2	<2	<2 UJ	<2	<2 UJ
Hydro-EVE Acid	<2	<2	<2 UJ	<2	<2 UJ
R-EVE	<2	<2	<2 UJ	3	<2 UJ
PES	<2	<2	<2 UJ	<2	<2 UJ
PFECA B	<2	<2	<2 UJ	<2	<2 UJ
PFECA-G	<2	<2	<2 UJ	<2	<2 UJ
Perfluoroheptanoic Acid	3.3	<2	4.5 J	2.9	5.7 J
<b>Total Attachment C<sup>1,2</sup></b>	<b>24</b>	<b>2.3</b>	<b>31</b>	<b>380</b>	<b>36</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>24</b>	<b>2.3</b>	<b>31</b>	<b>380</b>	<b>36</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>36</b>	<b>2.3</b>	<b>38</b>	<b>390</b>	<b>45</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q4 2020	Q4 2020	Q4 2020	Q4 2020	Q4 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-113020	CFR-TARHEEL-24-120320	CFR-TARHEEL-24-120720	CFR-TARHEEL-24-121020	CFR-TARHEEL-24-121320
Sample Date	11/30/20	12/03/20	12/07/20	12/10/20	12/13/20
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	11/30/20 12:01 AM	12/03/20 12:01 AM	12/07/20 12:01 AM	12/10/20 12:01 AM	12/13/20 12:01 AM
Sample Stop Date and Time	11/30/20 11:01 PM	12/03/20 11:01 PM	12/07/20 11:01 PM	12/10/20 11:01 PM	12/13/20 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-67618-1	320-67618-1	320-67847-1	320-67870-1	320-68141-1
Lab Sample ID	320-67618-1	320-67618-2	320-67847-1	320-67870-1	320-68141-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	18	4.4	5.5	5.7	9.0
PFMOAA	32	9.5	13	18	25
PFO2HxA	14	4.4	6	5.7	9.2
PFO3OA	3.2	<2	<2	<2	<2
PFO4DA	<2	<2	<2	<2	<2
PFO5DA	<2	<2	<2	<2	<2
PMPA	27	28	<20	<20	<20
PEPA	<10	<10	<10	<10	<10
PS Acid	<2	<2	<2	<2	<2
Hydro-PS Acid	<2	<2	<2	<2	<2
R-PSDA	8.4	3.9	6.3	<2	7.4 J
Hydrolyzed PSDA	9.6	3.1	5.9	<2	6.9
R-PSDCA	<2	<2	<2	<2	<2
NVHOS	<2	<2	<2	<2	<2
EVE Acid	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2	<2
R-EVE	3.2	<2	2.9	<2	2.3
PES	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	4.8	4	4.3	3.7	5.3
<b>Total Attachment C<sup>1,2</sup></b>	<b>94</b>	<b>46</b>	<b>25</b>	<b>29</b>	<b>43</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>94</b>	<b>46</b>	<b>25</b>	<b>29</b>	<b>43</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>120</b>	<b>53</b>	<b>40</b>	<b>29</b>	<b>60</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q4 2020	Q4 2020	Q4 2020	Q4 2020	Q4 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-12-121420	CAPI220-CFR-TARHEEL-121520	CAPI220-TARHEEL-121620	CFR-TARHEEL-121720	CFR-TARHEEL-122120
Sample Date	12/14/20	12/15/20	12/16/20	12/17/20	12/21/20
Sample Type	Composite	Grab	Grab	Grab	Grab
Sample Start Date and Time	12/14/20 12:59 AM	--	--	--	--
Sample Stop Date and Time	12/14/20 11:59 AM	--	--	--	--
Composite Duration (hours)	12	--	--	--	--
QA/QC					
Sample Delivery Group (SDG)	320-68141-1	320-68082-1	320-68080-1	320-68141-1	320-68261-1
Lab Sample ID	320-68141-2	320-68082-4	320-68080-1	320-68141-3	320-68261-1
<i>Table 3+ SOP (ng/L)</i>					
HFPO-DA	9.4	7.6	11	3.2	3.9
PFMOAA	27	14	20	6.9	9.9
PFO2HxA	9.9	8.6	9.7	3.1	3.7
PFO3OA	2.1	<2	2.6	<2	<2
PFO4DA	<2	<2	<2	<2	<2
PFO5DA	<2	<2	<2	<2	<2
PMPA	<20	25	27	<20	<20
PEPA	<10	<10	<10	<10	<10
PS Acid	<2	<2	<2	<2	<2
Hydro-PS Acid	<2	<2	<2	<2	<2
R-PSDA	7.4 J	13	<2	4.3 J	3.3 J
Hydrolyzed PSDA	7.4	8.6 J	9.2	2.2	3.1
R-PSDCA	<2	<2	<2	<2	<2
NVHOS	<2	<2	<2	<2	<2
EVE Acid	<2	<2	4.1	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2	<2
R-EVE	2.4	<2	<2	<2	<2
PES	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	4.1	3.9	4.3	4.5	3.9
<b>Total Attachment C<sup>1,2</sup></b>	<b>48</b>	<b>55</b>	<b>70</b>	<b>13</b>	<b>18</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>48</b>	<b>55</b>	<b>74</b>	<b>13</b>	<b>18</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>66</b>	<b>77</b>	<b>84</b>	<b>20</b>	<b>24</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q4 2020	Q4 2020	Q4 2020	Q4 2020	Q1 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-122320	CFR-TARHEEL-122420	CFR-TARHEEL-122820	CFR-TARHEEL-123020	CFR-TARHEEL-010621
Sample Date	12/23/20	12/24/20	12/28/20	12/30/20	01/06/21
Sample Type	Grab	Grab	Grab	Grab	Grab
Sample Start Date and Time	--	--	--	--	-
Sample Stop Date and Time	--	--	--	--	-
Composite Duration (hours)	--	--	--	--	-
QA/QC					
Sample Delivery Group (SDG)	320-68338-1	320-68338-1	320-68338-1	320-68393-1	320-68684-1
Lab Sample ID	320-68338-1	320-68338-2	320-68338-3	320-68393-1	320-68684-1
<i>Table 3+ SOP (ng/L)</i>					
HFPO-DA	3.5	12	3.0	4.4	2.8
PFMOAA	<2	17	<2	12	3.0
PFO2HxA	3.6	9	2.5	4.8	3.5
PFO3OA	<2	<2	<2	<2	<2.0
PFO4DA	<2	<2	<2	<2	<2.0
PFO5DA	<2	<2	<2	<2	<2.0
PMPA	<20	<20	<20	<20	<20
PEPA	<10	<10	<10	<10	<10
PS Acid	<2	<2	<2	<2	<2.0
Hydro-PS Acid	<2	<2	<2	<2	<2.0
R-PSDA	<2	13 J	<2	5.6	<2.0
Hydrolyzed PSDA	3.2 J	11 J	2 J	4.3	<2.0
R-PSDCA	<2	<2	<2	<2	<2.0
NVHOS	<2	<2	<2	<2	<2.0
EVE Acid	<2	<2	<2	<2	<2.0
Hydro-EVE Acid	<2	<2	<2	<2	<2.0
R-EVE	<2	<2	<2	2.8	<2.0
PES	<2	<2	<2	<2	<2.0
PFECA B	<2	<2	<2	<2	<2.0
PFECA-G	<2	<2	<2	<2	<2.0
Perfluoroheptanoic Acid	3.4	3.8	3.4	3.5	<2.0
<b>Total Attachment C<sup>1,2</sup></b>	<b>7.1</b>	<b>38</b>	<b>5.5</b>	<b>21</b>	<b>9.3</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>7.1</b>	<b>38</b>	<b>5.5</b>	<b>21</b>	<b>9.3</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>10</b>	<b>62</b>	<b>7.5</b>	<b>34</b>	<b>9.3</b>



**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q1 2021	Q1 2021	Q1 2021	Q1 2021	Q1 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-010721	CFR-TARHEEL-011121	CFR-TARHEEL-011421	CFR-TARHEEL-24-012121	CFR-TARHEEL-24-012221
Sample Date	01/07/21	01/11/21	01/14/21	01/21/21	01/22/21
Sample Type	Grab	Grab	Grab	Composite	Composite
Sample Start Date and Time	-	-	-	01/21/21 12:01 AM	01/22/21 12:01 AM
Sample Stop Date and Time	-	-	-	01/21/21 11:01 PM	01/22/21 11:01 PM
Composite Duration (hours)	-	-	-	24	24
QA/QC					
Sample Delivery Group (SDG)	320-68684-1	320-68930-1	320-68930-1	320-69493-1	320-69493-1
Lab Sample ID	320-68684-2	320-68930-1	320-68930-2	320-69493-1	320-69493-2
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	3.3	5.7	9.3	9.4	10
PFMOAA	<2.0	13	21	21	23
PFO2HxA	3.7	5.7	10	8.4	8.4
PFO3OA	<2.0	<2.0	2.0	<2.0	<2.0
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	<20	<20	<20	14	14
PEPA	<10	<10	<10	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	<2.0	3.9	4.6	5.6	6.5
Hydrolyzed PSDA	<2.0 UJ	2.8	4.2	7.2	7.9
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	<2.0	<2.0	<2.0	<2.0	<2.0
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0	<2.0	<2.0	<2.0	<2.0
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
Perfluoroheptanoic Acid	<2.0	<2.0	<2.0	2.3	2.4
<b>Total Attachment C<sup>1,2</sup></b>	<b>7.0</b>	<b>24</b>	<b>42</b>	<b>53</b>	<b>55</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>7.0</b>	<b>24</b>	<b>42</b>	<b>53</b>	<b>55</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>7.0</b>	<b>31</b>	<b>51</b>	<b>66</b>	<b>70</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q1 2021	Q1 2021	Q1 2021	Q1 2021	Q1 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CAP0121-CFR-TARHEEL-012621	CAP0121-CFR-TARHEEL-24-012721	CFR-TARHEEL-24-012721	CFR-TARHEEL-24-012821	CFR-TARHEEL-020121
Sample Date	01/26/21	01/27/21	01/27/21	01/28/21	02/01/21
Sample Type	Grab	Composite	Composite	Composite	Grab
Sample Start Date and Time	-	01/26/21 4:10 PM	01/26/21 4:10 PM	01/28/21 12:01 AM	-
Sample Stop Date and Time	-	01/27/21 3:10 PM	01/27/21 3:10 PM	01/28/21 11:01 PM	-
Composite Duration (hours)	-	24	24	24	-
QA/QC					
Sample Delivery Group (SDG)	320-69424-1	320-69495-2	320-69606-1	320-69606-1	320-69862-1
Lab Sample ID	320-69424-4	320-69495-2	320-69606-1	320-69606-2	320-69862-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	17	11	9.1	7.4	5.5
PFMOAA	36	23	23	16	8.6
PFO2HxA	13	12	9.2	7.0	4.8
PFO3OA	3.2	2	<2.0	<2.0	<2.0
PFO4DA	<2	<2	<2.0	<2.0	<2.0
PFO5DA	<2	<2	<2.0	<2.0	<2.0
PMPA	20	19	17	14	13
PEPA	<20	<20	<20	<20	<20
PS Acid	2.1	<2	<2.0	<2.0	<2.0
Hydro-PS Acid	<2	<2	<2.0	<2.0	<2.0
R-PSDA	20	9.6	6.8	5.9	<2.0
Hydrolyzed PSDA	9.6	7.8	6.2	4.8	2.8
R-PSDCA	<2	<2	<2.0	<2.0	<2.0
NVHOS	3	<2	<2.0	<2.0	<2.0
EVE Acid	<2	<2	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2	<2	<2.0	<2.0	<2.0
R-EVE	4.3	3.2	2.7	<2.0	<2.0
PES	<2	<2	<2.0	<2.0	<2.0
PFECA B	<2	<2	<2.0	<2.0	<2.0
PFECA-G	<2	<2	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	2.2	3.1	2.3	2.5	3.0
<b>Total Attachment C<sup>1,2</sup></b>	<b>91</b>	<b>67</b>	<b>58</b>	<b>44</b>	<b>32</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>94</b>	<b>67</b>	<b>58</b>	<b>44</b>	<b>32</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>130</b>	<b>88</b>	<b>74</b>	<b>55</b>	<b>35</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q1 2021	Q1 2021	Q1 2021	Q1 2021	Q1 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-020421	CFR-TARHEEL-020821	CFR-TARHEEL-38-021221	CFR-TARHEEL-021621	CFR-TARHEEL-021921
Sample Date	02/04/21	02/08/21	02/12/21	02/16/21	02/19/21
Sample Type	Grab	Grab	Composite	Grab	Grab
Sample Start Date and Time	-	-	02/11/21 12:01 AM	-	-
Sample Stop Date and Time	-	-	02/12/21 2:01 PM	-	-
Composite Duration (hours)	-	-	38	-	-
QA/QC					
Sample Delivery Group (SDG)	320-69862-1	320-70504-1	320-70504-1	320-70504-1	320-70504-1
Lab Sample ID	320-69862-2	320-70504-2	320-70504-1	320-70504-3	320-70504-4
<i>Table 3+ SOP (ng/L)</i>					
HFPO-DA	4.5	<2.0	10	4.1	8.4
PFMOAA	<2.0	<2.0	24	<2.0	8.9
PFO2HxA	4.6	<2.0 UJ	8.2 J	3.2	4.4
PFO3OA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	10	<10	20	15	16
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	<2.0	<2.0	5.1	<2.0	4.8
Hydrolyzed PSDA	4.4	<2.0	6.0	<2.0	3.0
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	<2.0	<2.0	<2.0	<2.0	<2.0
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0	<2.0	<2.0	<2.0	<2.0
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
Perfluoroheptanoic Acid	2.4	4.0	3.5	2.6	<2.0
<b>Total Attachment C<sup>1,2</sup></b>	<b>19</b>	<b>0.0</b>	<b>62</b>	<b>22</b>	<b>38</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>19</b>	<b>0.0</b>	<b>62</b>	<b>22</b>	<b>38</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>24</b>	<b>0.0</b>	<b>73</b>	<b>22</b>	<b>46</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q1 2021	Q1 2021	Q1 2021	Q1 2021	Q1 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL <sup>5</sup>	CFR-TARHEEL	CFR-TARHEEL <sup>5</sup>	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-022221	CFR-TARHEEL-022221	CAP0221-CFR-TARHEEL-022421	CAP0221-CFR-TARHEEL-022421	CFR-TARHEEL-022521
Sample Date	02/22/21	02/22/21	02/24/21	02/24/21	02/25/21
Sample Type	Grab	Grab	Grab	Grab	Grab
Sample Start Date and Time	-	-	-	-	-
Sample Stop Date and Time	-	-	-	-	-
Composite Duration (hours)	-	-	-	-	-
QA/QC					
Sample Delivery Group (SDG)	320-70653-1	320-70653-2	320-70619-1	320-70619-2	320-70653-1
Lab Sample ID	320-70653-1	320-70653-1	320-70619-2	320-70619-2	320-70653-2
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	7.3	5.7 J	12	4.3 J	5.5
PFMOAA	6.6	6.4 J	20	8.7 J	7.4
PFO2HxA	5.2	7.0 J	7	5 J	5.5
PFO3OA	<2.0	2.2 J	<2	<2 UJ	<2.0
PFO4DA	<2.0	<2.0 UJ	2.7 J	<2 UJ	<2.0
PFO5DA	<2.0	<2.0 UJ	<2	<2 UJ	<2.0
PMPA	14	12 J	<10	8.4 J	12
PEPA	<20	2.4 J	<20	<2 UJ	<20
PS Acid	<2.0	<2.0 UJ	<2	<2 UJ	<2.0
Hydro-PS Acid	<2.0	<2.0 UJ	2.9	<2 UJ	<2.0
R-PSDA	3.6	7.1 J	3.4	4.7 J	2.9
Hydrolyzed PSDA	2.8	3.2 J	2.6	2.4 J	2.3
R-PSDCA	<2.0	<3.0 UJ	<2	<3 UJ	<2.0
NVHOS	<2.0	<3.0 UJ	<2	<3 UJ	<2.0
EVE Acid	<2.0	<2.0 UJ	<2	<2 UJ	<2.0
Hydro-EVE Acid	<2.0	<2.0 UJ	4	<2 UJ	<2.0
R-EVE	<2.0	2.1 J	<2	<2 UJ	<2.0
PES	<2.0	<2.0 UJ	<2	<2 UJ	<2.0
PFECA B	<2.0	<2.0 UJ	<2	<2 UJ	<2.0
PFECA-G	<2.0	<2.0 UJ	<2	<2 UJ	<2.0
Perfluoroheptanoic Acid	2.8	<2.0 UJ	2.1	<2 UJ	3.3
<b>Total Attachment C<sup>1,2</sup></b>	<b>33</b>	<b>36</b>	<b>45</b>	<b>26</b>	<b>30</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>33</b>	<b>36</b>	<b>49</b>	<b>26</b>	<b>30</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>40</b>	<b>48</b>	<b>55</b>	<b>34</b>	<b>36</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q1 2021	Q1 2021	Q1 2021	Q1 2021	Q1 2021
Location ID	CFR-TARHEEL <sup>5</sup>	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-022521	CFR-TARHEEL-24-030521	CFR-TARHEEL-24-030621	CFR-TARHEEL-24-030821	CFR-TARHEEL-24-031121
Sample Date	02/25/21	03/05/21	03/06/21	03/08/21	03/11/21
Sample Type	Grab	Composite	Composite	Composite	Composite
Sample Start Date and Time	-	03/05/21 12:01 AM	03/06/21 12:01 AM	03/08/21 12:01 AM	03/11/21 12:01 AM
Sample Stop Date and Time	-	03/05/21 11:01 PM	03/06/21 11:01 PM	03/08/21 11:01 PM	03/11/21 11:01 PM
Composite Duration (hours)	-	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-70653-2	320-71137-1	320-71137-1	320-71410-1	320-71410-1
Lab Sample ID	320-70653-2	320-71137-1	320-71137-2	320-71410-1	320-71410-2
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	5.5 J	4.5	28	5.8	8.0
PFMOAA	10 J	12	11	12	20
PFO2HxA	5.7 J	5.2	4.7	4.5	7.2
PFO3OA	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
PFO4DA	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
PMPA	9.1 J	<10	<10	<10	14
PEPA	<2.0 UJ	<20	<20	<20	<20
PS Acid	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
R-PSDA	5.9 J	7.2	6.3	3.8	4.5
Hydrolyzed PSDA	2.8 J	4.8	3.9	2.3	4.2
R-PSDCA	<3.0 UJ	<2.0	<2.0	<2.0	<2.0
NVHOS	<3.0 UJ	<2.0	<2.0	<2.0	<2.0
EVE Acid	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
R-EVE	2.2 J	<2.0	<2.0	<2.0	<2.0
PES	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
PFECA B	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
PFECA-G	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	<2.0 UJ	3.4	4.0	3.9	3.6
<b>Total Attachment C<sup>1,2</sup></b>	<b>30</b>	<b>22</b>	<b>44</b>	<b>22</b>	<b>49</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>30</b>	<b>22</b>	<b>44</b>	<b>22</b>	<b>49</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>36</b>	<b>34</b>	<b>54</b>	<b>28</b>	<b>58</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q1 2021	Q1 2021	Q1 2021	Q1 2021	Q1 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL <sup>5</sup>	CFR-TARHEEL <sup>6</sup>
Field Sample ID	CFR-TARHEEL-24-031521	CFR-TARHEEL-24-031821	CFR-TARHEEL-24-032421	CFR-TARHEEL-24-032421	CFR-TARHEEL-24-032421-Z
Sample Date	03/15/21	03/18/21	03/24/21	03/24/21	03/24/21
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	03/15/21 12:01 AM	03/18/21 12:01 AM	03/24/21 12:01 AM	03/24/21 12:01 AM	03/24/21 12:01 AM
Sample Stop Date and Time	03/16/21 12:01 AM	03/18/21 11:01 PM	03/24/21 11:01 PM	03/24/21 11:01 PM	03/24/21 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-71660-1	320-71660-1	320-73243-1	320-73243-2	320-73243-2
Lab Sample ID	320-71660-1	320-71660-2	320-73243-1	320-73243-1	320-73243-1Z
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	7.4	5.0	70 J	9.0 J	8.4 J
PFMOAA	19	13	13 J	20 J	23 J
PFO2HxA	6.7	5.2	10 J	13 J	12 J
PFO3OA	<2.0	<2.0	3.0 J	2.2 J	<2.0 UJ
PFO4DA	<2.0	<2.0	2.5 J	<2.0 UJ	<2.0 UJ
PFO5DA	<2.0	<2.0	22 J	<2.0 UJ	<2.0 UJ
PMPA	12	11	21 J	17 J	12 J
PEPA	<20	<20	<20 UJ	4.1 J	3.6 J
PS Acid	<2.0	<2.0	510 J	<2.0 UJ	<2.0 UJ
Hydro-PS Acid	<2.0	<2.0	130 J	<2.0 UJ	<2.0 UJ
R-PSDA	4.1	3.8	37 J	22 J	19 J
Hydrolyzed PSDA	3.7	2.9	23 J	14 J	11 J
R-PSDCA	<2.0	<2.0	6.5 J	<3.0 UJ	<3.0 UJ
NVHOS	<2.0	<2.0	5.9 J	9.2 J	14 J
EVE Acid	<2.0	<2.0	33 J	<2.0 UJ	<2.0 UJ
Hydro-EVE Acid	<2.0	<2.0	4.6 J	<2.0 UJ	<2.0 UJ
R-EVE	<2.0	<2.0	<2.0 UJ	5.3 J	5.7 J
PES	<2.0	<2.0	<2.0 UJ	<2.0 UJ	<2.0 UJ
PFECA B	<2.0	<2.0	<2.0 UJ	<2.0 UJ	<2.0 UJ
PFECA-G	<2.0	<2.0	<2.0 UJ	<2.0 UJ	<2.0 UJ
Perfluoroheptanoic Acid	4.3	3.8	4.3 J	3.2 J	3.4 J
<b>Total Attachment C<sup>1,2</sup></b>	<b>45</b>	<b>34</b>	<b>780</b>	<b>65</b>	<b>59</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>45</b>	<b>34</b>	<b>830</b>	<b>75</b>	<b>73</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>53</b>	<b>41</b>	<b>890</b>	<b>120</b>	<b>110</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q1 2021	Q1 2021	Q1 2021	Q1 2021	Q1 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL <sup>6</sup>	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-032521	CFR-TARHEEL-24-032521	CFR-TARHEEL-24-032521	CAP0321-CFR-TARHEEL-032921	CFR-TARHEEL-24-032921
Sample Date	03/25/21	03/25/21	03/25/21	03/29/21	03/29/21
Sample Type	Composite	Composite	Composite	Grab	Composite
Sample Start Date and Time	03/25/21 12:01 AM	03/25/21 12:01 AM	03/25/21 12:01 AM	-	03/29/21 12:01 AM
Sample Stop Date and Time	03/25/21 11:01 PM	03/25/21 11:01 PM	03/25/21 11:01 PM	-	03/29/21 11:01 PM
Composite Duration (hours)	24	24	24	-	24
QA/QC					
Sample Delivery Group (SDG)	320-73243-1	320-73243-1	320-73243-2	320-73243-2	320-72329-1
Lab Sample ID	320-73243-2	320-73243-2	320-73243-2	320-73243-2Z	320-72329-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	13 J	13 J	8.2 J	6.4 J	3.4
PFMOAA	10 J	10 J	20 J	20 J	8.0
PFO2HxA	8.2 J	8.2 J	12 J	12 J	4.7
PFO3OA	<2.0 UJ	<2.0 UJ	2.6 J	2.3 J	<2.0
PFO4DA	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0
PFO5DA	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0
PMPA	19 J	19 J	12 J	12 J	<10
PEPA	<20 UJ	<20 UJ	3.2 J	3.7 J	<20
PS Acid	15 J	15 J	<2.0 UJ	<2.0 UJ	<2.0
Hydro-PS Acid	4.1 J	4.1 J	<2.0 UJ	<2.0 UJ	<2.0
R-PSDA	<2.0 UJ	<2.0 UJ	15 J	17 J	<2.0
Hydrolyzed PSDA	7.1 J	7.1 J	9.2 J	10 J	4.0
R-PSDCA	<2.0 UJ	<2.0 UJ	<3.0 UJ	<3.0 UJ	<2.0
NVHOS	2.4 J	2.4 J	3.0 J	7.8 J	<2.0
EVE Acid	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0
Hydro-EVE Acid	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0
R-EVE	<2.0 UJ	<2.0 UJ	4.9 J	5.2 J	<2.0
PES	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0
PFECA B	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0
PFECA-G	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0
Perfluoroheptanoic Acid	6.5 J	6.5 J	3.7 J	3.6 J	2.3
<b>Total Attachment C<sup>1,2</sup></b>	<b>69</b>	<b>69</b>	<b>58</b>	<b>56</b>	<b>16</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>72</b>	<b>72</b>	<b>61</b>	<b>64</b>	<b>16</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>79</b>	<b>79</b>	<b>90</b>	<b>96</b>	<b>20</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q1 2021	Q1 2021	Q1 2021	Q2 2021	Q2 2021
Location ID	CFR-TARHEEL <sup>7</sup>	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CAP0321-CFR-TARHEEL-21-033021	CFR-TARHEEL-24-033121	CFR-TARHEEL-24-033121-D	CFR-TARHEEL-24-040521	CFR-TARHEEL-24-040721
Sample Date	03/30/21	03/31/21	03/31/21	04/05/21	04/07/21
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	03/29/21 12:50 PM	03/31/21 12:01 AM	03/31/21 12:01 AM	04/05/21 12:01 AM	04/07/21 12:01 AM
Sample Stop Date and Time	03/30/21 8:50 AM	03/31/21 11:01 PM	03/31/21 11:01 PM	04/05/21 11:01 PM	04/07/21 11:01 PM
Composite Duration (hours)	21	24	24	24	24
QA/QC			Field Duplicate		
Sample Delivery Group (SDG)	320-71975-1	320-72329-1	320-72329-1	320-72392-1	320-72392-1
Lab Sample ID	320-71975-4	320-72329-2	320-72329-3	320-72392-1	320-72392-2
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	2.9	4.2	4.2	31	14
PFMOAA	5.5	6.6	7.2	88	28
PFO2HxA	2.3	3.7	3.8	31	15
PFO3OA	<2	<2.0	<2.0	6.5	3.3
PFO4DA	<2	<2.0	<2.0	2.4	<2.0
PFO5DA	<2	<2.0	<2.0	<2.0	<2.0
PMPA	<10	<10	<10	31	26
PEPA	<20	<20	<20	<20	<20
PS Acid	<2	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2	<2.0	<2.0	<2.0	<2.0
R-PSDA	7.2	<2.0	<2.0	16	7.4
Hydrolyzed PSDA	2.2	3.1 J	3.0	45	13
R-PSDCA	<2	<2.0	<2.0	<2.0	<2.0
NVHOS	<2	<2.0	<2.0	2.0	<2.0
EVE Acid	<2	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2	<2.0	<2.0	<2.0	<2.0
R-EVE	<2	<2.0	<2.0	6.5	<2.0
PES	<2	<2.0	<2.0	<2.0	<2.0
PFECA B	<2	<2.0	<2.0	<2.0	<2.0
PFECA-G	<2	<2.0 UJ	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	3.7	2.6	3.1	3.2	3.3
<b>Total Attachment C<sup>1,2</sup></b>	<b>11</b>	<b>15</b>	<b>15</b>	<b>190</b>	<b>86</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>11</b>	<b>15</b>	<b>15</b>	<b>190</b>	<b>86</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>20</b>	<b>18</b>	<b>18</b>	<b>260</b>	<b>110</b>



**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q2 2021	Q2 2021	Q2 2021	Q2 2021	Q2 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-041221	CFR-TARHEEL-24-041521	CFR-TARHEEL-24-041821	CFR-TARHEEL-24-041921	CAP0421-CFR-TARHEEL-042021
Sample Date	04/12/21	04/15/21	04/18/21	04/19/21	04/20/21
Sample Type	Composite	Composite	Composite	Composite	Grab
Sample Start Date and Time	04/12/21 12:01 AM	04/15/21 12:01 AM	04/18/21 12:01 AM	04/19/21 12:01 AM	-
Sample Stop Date and Time	04/12/21 11:01 PM	04/15/21 11:01 PM	04/18/21 11:01 PM	04/19/21 11:01 PM	-
Composite Duration (hours)	24	24	24	24	-
QA/QC					
Sample Delivery Group (SDG)	320-72767-1	320-72767-1	320-73112-1	320-73112-1	320-72813-1
Lab Sample ID	320-72767-1	320-72767-2	320-73112-1	320-73112-2	320-72813-3
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	10	10	24	31	15
PFMOAA	31	31	51	92	48
PFO2HxA	12	11	16	48	19
PFO3OA	<2.0	<2.0	<2.0	20	4.2
PFO4DA	<2.0	<2.0	<2.0	5.3	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	19	15	17	24	20
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	7.4	5.5	12	19	13
Hydrolyzed PSDA	18	8.5	18	22	16
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	<2.0	<2.0	2.1	3.7	3.0
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	4.6	<2.0	3.6	5.9	<2.0
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 UJ	<2.0 UJ	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	3.0	4.1	3.6	4.7	3.5
<b>Total Attachment C<sup>1,2</sup></b>	<b>72</b>	<b>67</b>	<b>110</b>	<b>220</b>	<b>110</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>72</b>	<b>67</b>	<b>110</b>	<b>220</b>	<b>110</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>100</b>	<b>81</b>	<b>140</b>	<b>270</b>	<b>140</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q2 2021	Q2 2021	Q2 2021	Q2 2021	Q2 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CAP0421-CFR-TARHEEL-5-042121	CAP0421-CFR-TARHEEL-24-042221	CFR-TARHEEL-042721	CFR-TARHEEL-24-042821	CFR-TARHEEL-24-042821-D
Sample Date	04/21/21	04/22/21	04/27/21	04/28/21	04/28/21
Sample Type	Composite	Composite	Grab	Composite	Composite
Sample Start Date and Time	04/21/21 10:48 AM	04/21/21 2:20 PM	-	04/28/21 12:01 AM	04/28/21 12:01 AM
Sample Stop Date and Time	04/21/21 2:48 PM	04/22/21 1:20 PM	-	04/28/21 11:01 PM	04/28/21 11:01 PM
Composite Duration (hours)	5	24	-	24	24
QA/QC					Field Duplicate
Sample Delivery Group (SDG)	320-72803-1	320-72908-2	320-73330-1	320-73330-1	320-73330-1
Lab Sample ID	320-72803-3	320-72908-7	320-73330-1	320-73330-2	320-73330-3
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	25	23	23	18	16
PFMOAA	48	64	63	56	53
PFO2HxA	34	26	25	20	21
PFO3OA	9.1	7.2	5.6	4.6 J	<2.0
PFO4DA	3.2	2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	36	19	30	24	25
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	18	32	15	17 J	15
Hydrolyzed PSDA	30	330	31 J	19 J	19 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	4.8	3.4	3.4	3.9	3.8
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	2.8	23	<2.0	<2.0	<2.0
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
Perfluoroheptanoic Acid	4.3	3.6	3.4	3.8	4.2
<b>Total Attachment C<sup>1,2</sup></b>	<b>160</b>	<b>140</b>	<b>150</b>	<b>120</b>	<b>120</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>160</b>	<b>140</b>	<b>150</b>	<b>130</b>	<b>120</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>210</b>	<b>530</b>	<b>200</b>	<b>160</b>	<b>150</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q2 2021	Q2 2021	Q2 2021	Q2 2021	Q2 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-050321	CFR-TARHEEL-24-050621	CFR-TARHEEL-24-051021	CFR-TARHEEL-24-051021-D	CFR-TARHEEL-24-051221
Sample Date	05/03/21	05/06/21	05/10/21	05/10/21	05/12/21
Sample Type	Composite	Grab	Composite	Composite	Composite
Sample Start Date and Time	05/03/21 12:01 AM	-	05/10/21 12:01 AM	05/10/21 12:01 AM	05/12/21 12:01 AM
Sample Stop Date and Time	05/03/21 11:01 PM	-	05/10/21 11:01 PM	05/10/21 11:01 PM	05/12/21 11:01 PM
Composite Duration (hours)	24	-	24	24	24
QA/QC				Field Duplicate	
Sample Delivery Group (SDG)	320-73801-1	320-73801-1	320-73801-1	320-73801-1	320-73801-1
Lab Sample ID	320-73801-1	320-73801-2	320-73801-3	320-73801-4	320-73801-5
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	14 J	15 J	11	12	12
PFMOAA	49 J	57 J	32 J	32 J	40 J
PFO2HxA	14 J	17 J	9.8 J	9.9	11
PFO3OA	3.5 J	3.1 J	2.3 J	2.2	2.7
PFO4DA	<2.0 UJ	<2.0 UJ	<2.0	<2.0	<2.0
PFO5DA	<2.0 UJ	<2.0 UJ	<2.0	<2.0	<2.0
PMPA	22 J	35 J	26 J	26 J	23 J
PEPA	<20 UJ	<20 UJ	<20 UJ	<20	<20
PS Acid	<2.0 UJ	<2.0 UJ	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0 UJ	<2.0 UJ	<2.0	<2.0	<2.0
R-PSDA	18 J	17 J	18 J	20	15
Hydrolyzed PSDA	18 J	20 J	14 J	15	17
R-PSDCA	<2.0 UJ	<2.0 UJ	<2.0	<2.0	<2.0
NVHOS	11 J	5.8 J	8.2	7.6	5.4
EVE Acid	<2.0 UJ	<2.0 UJ	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0 UJ	<2.0 UJ	<2.0	<2.0	<2.0
R-EVE	4.5 J	3.9 J	3.1 J	2.9	3.9
PES	<2.0 UJ	<2.0 UJ	<2.0	<2.0	<2.0
PFECA B	<2.0 UJ	<2.0 UJ	<2.0	<2.0	<2.0
PFECA-G	<2.0 UJ	<2.0 UJ	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	4.5 J	5.2 J	5.9	5.2	6.0
<b>Total Attachment C<sup>1,2</sup></b>	<b>100</b>	<b>130</b>	<b>81</b>	<b>82</b>	<b>89</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>110</b>	<b>130</b>	<b>89</b>	<b>90</b>	<b>94</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>150</b>	<b>170</b>	<b>120</b>	<b>130</b>	<b>130</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q2 2021	Q2 2021	Q2 2021	Q2 2021	Q2 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL <sup>8</sup>
Field Sample ID	CFR-TARHEEL-24-051721	CFR-TARHEEL-24-052021	CFR-TARHEEL-24-052421	CAP0521-CFR-TARHEEL-052621	CAP0521-CFR-TARHEEL-052621
Sample Date	05/17/21	05/20/21	05/24/21	05/26/21	05/26/21
Sample Type	Composite	Composite	Composite	Grab	Grab
Sample Start Date and Time	05/17/21 12:01 AM	05/20/21 12:01 AM	05/24/21 12:01 AM	-	-
Sample Stop Date and Time	05/17/21 11:01 PM	05/20/21 11:01 PM	05/24/21 11:01 PM	-	-
Composite Duration (hours)	24	24	24	-	-
QA/QC					
Sample Delivery Group (SDG)	320-74299-1	320-74299-1	320-74558-1	320-74300-1	320-74300-2
Lab Sample ID	320-74299-1	320-74299-2	320-74558-1	320-74300-1	320-74300-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	13 J	22 J	21	18	17 J
PFMOAA	37 J	45 J	66	51	23 J
PFO2HxA	15 J	18 J	25	21	16 J
PFO3OA	4.0 J	3.6 J	5.6	5.9	4.0 J
PFO4DA	<2.0 UJ	<2.0 UJ	<2.0	<2.0	<2.0 UJ
PFO5DA	<2.0 UJ	<2.0 UJ	<2.0	<2.0	<2.0 UJ
PMPA	38 J	36 J	34	24 B	31 BJ
PEPA	<20 UJ	<20 UJ	<20	5.1	<20 UJ
PS Acid	<2.0 UJ	<2.0 UJ	<2.0	<2.0 UJ	<2.0 UJ
Hydro-PS Acid	<2.0 UJ	<2.0 UJ	<2.0	<2.0	<2.0 UJ
R-PSDA	11 J	14 J	12	62 J	<2.0 UJ
Hydrolyzed PSDA	19 J	20 J	23	12 J	<2.0 UJ
R-PSDCA	<2.0 UJ	<2.0 UJ	<2.0	<3.0 UJ	<2.0 UJ
NVHOS	4.5 J	4.6 J	4.1	5.1	4.4 J
EVE Acid	<2.0 UJ	<2.0 UJ	<2.0	<2.0 UJ	<2.0 UJ
Hydro-EVE Acid	<2.0 UJ	<2.0 UJ	<2.0	<2.0	<2.0 UJ
R-EVE	2.7 J	3.3 J	3.6	5.0	<2.0 UJ
PES	<2.0 UJ	<2.0 UJ	<2.0	<2.0	<2.0 UJ
PFECA B	<2.0 UJ	<2.0 UJ	<2.0	<2.0	<2.0 UJ
PFECA-G	<2.0 UJ	<2.0 UJ	<2.0	<2.0 UJ	<2.0 UJ
Perfluoroheptanoic Acid	6.6 J	5.2 J	6.0	4.8	4.9 J
<b>Total Attachment C<sup>1,2</sup></b>	<b>110</b>	<b>120</b>	<b>150</b>	<b>130</b>	<b>91</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>110</b>	<b>130</b>	<b>160</b>	<b>130</b>	<b>95</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>140</b>	<b>170</b>	<b>190</b>	<b>210</b>	<b>95</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q2 2021	Q2 2021	Q2 2021	Q2 2021	Q2 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CAP0521-CFR-TARHEEL-24-052721	CFR-TARHEEL-24-052721	CFR-TARHEEL-24-060221	CFR-TARHEEL-24-060321	CFR-TARHEEL-24-060721
Sample Date	05/27/21	05/27/21	06/02/21	06/03/21	06/07/21
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	05/26/21 2:18 PM	05/27/21 12:01 AM	06/02/21 12:01 AM	06/03/21 12:01 AM	06/07/21 12:01 AM
Sample Stop Date and Time	05/27/21 1:18 PM	05/27/21 11:01 PM	06/02/21 11:01 PM	06/03/21 11:01 PM	06/07/21 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-74588-1	320-74558-1	320-74900-1	320-74900-1	320-75079-1
Lab Sample ID	320-74588-1	320-74558-2	320-74900-1	320-74900-2	320-75079-1
<i>Table 3+ SOP (ng/L)</i>					
HFPO-DA	21	20	18	92	11
PFMOAA	60	64	49	76	26
PFO2HxA	23	21	20	38	14
PFO3OA	5.6	4.4	4.4	11	3.8
PFO4DA	<2.0	<2.0	<2.0	4.5	<2.0
PFO5DA	<2.0	<2.0	<2.0	3.1	<2.0
PMPA	33 B	49	37	52	26 J
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	6.2	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	3.6	<2.0
R-PSDA	16	11	11	29	15 J
Hydrolyzed PSDA	23	20	19	50	14 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	5.5	5.7	3.8	6.3	5.9
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	4.1	3.8	4.7 J	9.8	<2.0
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
Perfluoroheptanoic Acid	5.7	6.5	6.2 J	6.1	6.7
<b>Total Attachment C<sup>1,2</sup></b>	<b>140</b>	<b>160</b>	<b>130</b>	<b>290</b>	<b>81</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>150</b>	<b>160</b>	<b>130</b>	<b>290</b>	<b>87</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>190</b>	<b>200</b>	<b>170</b>	<b>380</b>	<b>120</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q2 2021	Q2 2021	Q2 2021	Q2 2021	Q2 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-060721-D	CFR-TARHEEL-24-061221	CAP0621-CFR-TARHEEL-061521	CFR-TARHEEL-24-061521	CAP0621-CFR-TARHEEL-24-061621
Sample Date	06/07/21	06/12/21	06/15/21	06/15/21	06/16/21
Sample Type	Composite	Composite	Grab	Composite	Composite
Sample Start Date and Time	06/07/21 12:01 AM	06/12/21 12:01 AM	-	06/15/21 12:01 AM	06/15/21 3:35 PM
Sample Stop Date and Time	06/07/21 11:01 PM	06/12/21 11:01 PM	-	06/15/21 11:01 PM	06/16/21 2:35 PM
Composite Duration (hours)	24	24	-	24	24
QA/QC	Field Duplicate				
Sample Delivery Group (SDG)	320-75079-1	320-75079-1	320-75249-1	320-75724-1	320-75253-1
Lab Sample ID	320-75079-2	320-75079-3	320-75249-3	320-75724-1	320-75253-2
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	11	36	7.2	7.1	6.6
PFMOAA	23	59	13	17	15
PFO2HxA	13	30	8.2	8.7	10
PFO3OA	3.2	8.7	<2.0	2.0	2.1
PFO4DA	<2.0	2.9	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	24 J	35	22	24	21
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	2.3	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	2.3	<2.0	<2.0	<2.0
R-PSDA	<2.0	22	<2.0	<2.0	<2.0
Hydrolyzed PSDA	12	25	<2.0	6.3	5.0
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	5.6	3.6	<2.0	<2.0	<2.0
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0	6.6	<2.0	<2.0	<2.0
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
Perfluoroheptanoic Acid	5.3	7.0	4.3	4.8	3.4
<b>Total Attachment C<sup>1,2</sup></b>	<b>74</b>	<b>180</b>	<b>50</b>	<b>59</b>	<b>55</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>80</b>	<b>180</b>	<b>50</b>	<b>59</b>	<b>55</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>92</b>	<b>230</b>	<b>50</b>	<b>65</b>	<b>60</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q2 2021	Q2 2021	Q2 2021	Q2 2021	Q3 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-061721	CFR-TARHEEL-24-062221	CFR-TARHEEL-24-062421	CFR-TARHEEL-24-070121	CFR-TARHEEL-24-070221
Sample Date	06/17/21	06/22/21	06/24/21	07/01/21	07/02/21
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	06/17/21 12:01 AM	06/22/21 12:01 AM	06/24/21 12:01 AM	06/30/21 12:01 AM	07/02/21 12:01 AM
Sample Stop Date and Time	06/17/21 11:01 PM	06/22/21 11:01 PM	06/24/21 11:01 PM	07/01/21 11:01 PM	07/02/21 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-75724-1	320-75724-1	320-75724-1	320-76118-1	320-76118-1
Lab Sample ID	320-75724-2	320-75724-3	320-75724-4	320-76118-1	320-76118-2
<i>Table 3+ SOP (ng/L)</i>					
HFPO-DA	8.8	12	10	12	13
PFMOAA	12	17	27	24	27
PFO2HxA	7.9	12	10	14	17
PFO3OA	2.0	3.0	2.8	3.5	4.3
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	26	33	29	28	22
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	<2.0	<2.0	19	<2.0	<2.0
Hydrolyzed PSDA	5.2	<2.0	12	5.9	8.2 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	<2.0	<2.0	8.1	5.5	4.6
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0	<2.0	4.0	<2.0	<2.0
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
Perfluoroheptanoic Acid	4.3	5.1	6.1	4.1	4.1
<b>Total Attachment C<sup>1,2</sup></b>	<b>57</b>	<b>77</b>	<b>79</b>	<b>82</b>	<b>83</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>57</b>	<b>77</b>	<b>87</b>	<b>87</b>	<b>88</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>62</b>	<b>77</b>	<b>120</b>	<b>93</b>	<b>96</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q3 2021	Q3 2021	Q3 2021	Q3 2021	Q3 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-070721	CFR-TARHEEL-24-070821	CFR-TARHEEL-24-071221	CFR-TARHEEL-24-071221-D	CFR-TARHEEL-24-071521
Sample Date	07/07/21	07/08/21	07/12/21	07/12/21	07/15/21
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	07/07/21 12:01 AM	07/08/21 12:01 AM	07/12/21 12:01 AM	07/12/21 12:01 AM	07/15/21 12:01 AM
Sample Stop Date and Time	07/07/21 11:01 PM	07/08/21 11:01 PM	07/12/21 11:01 PM	07/12/21 11:01 PM	07/15/21 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC				Field Duplicate	
Sample Delivery Group (SDG)	320-76118-1	320-76118-1	320-76577-1	320-76577-1	320-76577-1
Lab Sample ID	320-76118-3	320-76118-4	320-76577-1	320-76577-2	320-76577-3
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	10	18	5.0	4.3	6.7
PFMOAA	31	29	6.9 J	3.8 J	11
PFO2HxA	13	18	5.0	4.8	6.4
PFO3OA	2.9	4.5	<2.0	<2.0	2.1
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	15	36	20 J	32 J	31 J
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	19 J	<2.0	<2.0	6.8 J	<2.0
Hydrolyzed PSDA	13 J	5.3 J	6.7 J	5.7 J	4.8 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	8.2	5.8	<2.0	<2.0	<2.0
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	2.9 J	<2.0	<2.0	<2.0	<2.0
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
Perfluoroheptanoic Acid	4.0	3.8	6.0	4.7	6.5
<b>Total Attachment C<sup>1,2</sup></b>	<b>72</b>	<b>110</b>	<b>37</b>	<b>45</b>	<b>57</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>80</b>	<b>110</b>	<b>37</b>	<b>45</b>	<b>57</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>120</b>	<b>120</b>	<b>44</b>	<b>57</b>	<b>62</b>



**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q3 2021	Q3 2021	Q3 2021	Q3 2021	Q3 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-071921	CFR-TARHEEL-24-072221	CFR-TARHEEL-24-072621	CAP0721-CFR-TARHEEL-072821	CAP0721-CFR-TARHEEL-24-072821
Sample Date	07/19/21	07/22/21	07/26/21	07/28/21	07/28/21
Sample Type	Composite	Composite	Composite	Grab	Composite
Sample Start Date and Time	07/19/21 12:01 AM	07/22/21 12:01 AM	07/26/21 12:01 AM	-	07/28/21 5:45 PM
Sample Stop Date and Time	07/19/21 11:01 PM	07/22/21 11:01 PM	07/26/21 11:01 PM	-	07/29/21 4:45 PM
Composite Duration (hours)	24	24	24	-	24
QA/QC					
Sample Delivery Group (SDG)	320-77018-1	320-77018-1	320-77146-1	320-76991-1	320-77167-1
Lab Sample ID	320-77018-1	320-77018-2	320-77146-1	320-76991-5	320-77167-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	12	11	12	5.5	9.3
PFMOAA	12	8.2	11	5.0	8.8
PFO2HxA	12	10	11	6.5	8.9
PFO3OA	3.2	2.4	3.0	<2.0	2.5
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	22 J	19 J	28	29	30
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	10 J	11 J	<2.0	<2.0	9.0 J
Hydrolyzed PSDA	13 J	7.3 J	2.2 J	3.3 J	4.8 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	3.9	<2.0	<2.0	4.2	5.5
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	2.9 J	3.5 J	<2.0	<2.0	<2.0
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
Perfluoroheptanoic Acid	5.6	4.1	5.2	4.8	4.3
<b>Total Attachment C<sup>1,2</sup></b>	<b>61</b>	<b>51</b>	<b>65</b>	<b>46</b>	<b>60</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>65</b>	<b>51</b>	<b>65</b>	<b>50</b>	<b>65</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>91</b>	<b>72</b>	<b>67</b>	<b>54</b>	<b>79</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q3 2021	Q3 2021	Q3 2021	Q3 2021	Q3 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-072921	CFR-TARHEEL-24-080221	CFR-TARHEEL-24-080521	CFR-TARHEEL-24-081221	CFR-TARHEEL-24-081221-DUP
Sample Date	07/29/21	08/02/21	08/05/21	08/12/21	08/12/21
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	07/29/21 12:01 AM	08/02/21 12:01 AM	08/05/21 12:01 AM	08/12/21 12:01 AM	08/12/21 12:01 AM
Sample Stop Date and Time	07/29/21 11:01 PM	08/02/21 11:01 PM	08/05/21 11:01 PM	08/12/21 11:01 PM	08/12/21 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC					Field Duplicate
Sample Delivery Group (SDG)	320-77146-1	320-77601-1	320-77601-1	320-77901-1	320-77901-1
Lab Sample ID	320-77146-2	320-77601-1	320-77601-2	320-77901-1	320-77901-2
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	8.1	16	20	15	14
PFMOAA	8.6	27	32	15 J	15
PFO2HxA	8.8	18	25	17	17
PFO3OA	<2.0	4.0	5.8	3.9	3.7
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	26	37	39	42	40
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	7.0 J	20 J	29 J	8.1 J	7.4 J
Hydrolyzed PSDA	3.9 J	14 J	20 J	4.6 J	4.1 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	4.7	5.5	7.6	8.4	8.8
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	2.2 J	5.0 J	7.4 J	2.0 J	<2.0
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
Perfluoroheptanoic Acid	4.6	3.6	3.8	4.2	4.3
<b>Total Attachment C<sup>1,2</sup></b>	<b>52</b>	<b>100</b>	<b>120</b>	<b>93</b>	<b>90</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>56</b>	<b>110</b>	<b>130</b>	<b>100</b>	<b>99</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>69</b>	<b>150</b>	<b>190</b>	<b>120</b>	<b>110</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q3 2021	Q3 2021	Q3 2021	Q3 2021	Q3 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL <sup>9</sup>
Field Sample ID	CFR-TARHEEL-24-081321	CFR-TARHEEL-24-081621	CFR-TARHEEL-24-081921	CAP0821-CFR-TARHEEL-081921	CAP0821-CFR-TARHEEL-081921
Sample Date	08/13/21	08/16/21	08/19/21	08/19/21	08/19/21
Sample Type	Composite	Composite	Composite	Grab	Grab
Sample Start Date and Time	08/13/21 12:01 AM	08/16/21 12:01 AM	08/19/21 12:01 AM	-	-
Sample Stop Date and Time	08/13/21 11:01 PM	08/16/21 11:01 PM	08/19/21 11:01 PM	-	-
Composite Duration (hours)	24	24	24	-	-
QA/QC					
Sample Delivery Group (SDG)	320-77901-1	320-78259-1	320-78259-1	320-78260-1	320-78260-2
Lab Sample ID	320-77901-3	320-78259-1	320-78259-2	320-78260-5	320-78260-5
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	14	13	13	14	15 J
PFMOAA	14	24	25	26	28 J
PFO2HxA	15	16	15	17	17 J
PFO3OA	3.0	4.0	3.3	4.1	4.3 J
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
PMPA	34	18	18	17	18 J
PEPA	<20	<20	<20	<20	<20 UJ
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
R-PSDA	11 J	8.5 J	17 J	18 J	6.2 J
Hydrolyzed PSDA	3.4 J	11 J	19 J	23 J	11 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
NVHOS	10	3.3	7.2	7.0	6.8 J
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
R-EVE	<2.0	2.3 J	3.0 J	3.8 J	<2.0 UJ
PES	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
PFECA B	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
PFECA-G	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
Perfluoroheptanoic Acid	3.9	3.4	3.5	4	4.2 J
<b>Total Attachment C<sup>1,2</sup></b>	<b>80</b>	<b>75</b>	<b>74</b>	<b>78</b>	<b>82</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>90</b>	<b>78</b>	<b>82</b>	<b>85</b>	<b>89</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>100</b>	<b>100</b>	<b>120</b>	<b>130</b>	<b>110</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q3 2021	Q3 2021	Q3 2021	Q3 2021	Q3 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL <sup>9</sup>	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CAP0821-CFR-TARHEEL-24-082021	CAP0821-CFR-TARHEEL-24-082021	CFR-TARHEEL-24-082321	CFR-TARHEEL-24-082621	CFR-TARHEEL-24-082921
Sample Date	08/20/21	08/20/21	08/23/21	08/26/21	08/29/21
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	08/19/21 8:30 AM	08/19/21 8:30 AM	08/23/21 12:01 AM	08/26/21 12:01 AM	08/29/21 12:01 AM
Sample Stop Date and Time	08/20/21 7:30 AM	08/20/21 7:30 AM	08/23/21 11:01 PM	08/26/21 11:01 PM	08/29/21 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-78262-1	320-78262-2	320-78429-1	320-78429-1	320-78771-1
Lab Sample ID	320-78262-1	320-78262-1	320-78429-1	320-78429-2	320-78771-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	2.2	13 J	5.5	6.2	11
PFMOAA	<2.0	22 J	6.0	7.9	5.6
PFO2HxA	2.6	14 J	7.0	9.2	12
PFO3OA	<2.0	2.7 J	<2.0	<2.0	2.8
PFO4DA	<2.0	<2.0 UJ	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0 UJ	<2.0	<2.0	<2.0
PMPA	<10	15 J	18	24	12
PEPA	<20	<20 UJ	<20	<20	<20
PS Acid	<2.0	<2.0 UJ	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0 UJ	<2.0	<2.0	<2.0
R-PSDA	18 J	<2.0 UJ	<2.0	<2.0	6.1 J
Hydrolyzed PSDA	3.6 J	<2.0 UJ	4.0 J	6.1 J	4.6 J
R-PSDCA	<2.0	<2.0 UJ	<2.0	<2.0	<2.0
NVHOS	7.5	<2.0 UJ	3.8	2.9	2.5
EVE Acid	<2.0	<2.0 UJ	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0 UJ	<2.0	<2.0	<2.0
R-EVE	2.3 J	<2.0 UJ	<2.0	<2.0	<2.0
PES	<2.0	<2.0 UJ	<2.0	<2.0	<2.0
PFECA B	<2.0	<2.0 UJ	<2.0	<2.0	<2.0
PFECA-G	<2.0	<2.0 UJ	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	4	3.5 J	5.2	5.4	4.6
<b>Total Attachment C<sup>1,2</sup></b>	<b>4.8</b>	<b>67</b>	<b>37</b>	<b>47</b>	<b>43</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>12</b>	<b>67</b>	<b>40</b>	<b>50</b>	<b>46</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>36</b>	<b>67</b>	<b>44</b>	<b>56</b>	<b>57</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q3 2021	Q3 2021	Q3 2021	Q3 2021	Q3 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-090221	CFR-TARHEEL-24-090621	CFR-TARHEEL-24-090921	CFR-TARHEEL-24-091321	CFR-TARHEEL-24-091321-D
Sample Date	09/02/21	09/06/21	09/09/21	09/13/21	09/13/21
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	09/02/21 12:01 AM	09/06/21 12:01 AM	09/09/21 12:01 AM	09/13/21 12:01 AM	09/13/21 12:01 AM
Sample Stop Date and Time	09/02/21 11:01 PM	09/06/21 11:01 PM	09/09/21 11:01 PM	09/13/21 11:01 PM	09/13/21 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC					Field Duplicate
Sample Delivery Group (SDG)	320-78771-1	320-78868-1	320-78868-1	320-79407-1	320-79407-1
Lab Sample ID	320-78771-2	320-78868-1	320-78868-2	320-79407-1	320-79407-2
<i>Table 3+ SOP (ng/L)</i>					
HFPO-DA	15	15	17	8.8	9.5
PFMOAA	7.7	17	16	25	25
PFO2HxA	16	20	20	12	12
PFO3OA	3.6	4.9	4.3	2.8	2.5
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	11	15	12	17	16
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	5.5 J	<2.0	<2.0	9.4 J	12 J
Hydrolyzed PSDA	5.6 J	5.9 J	5.1 J	8.3 J	8.9 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	3.2	6.2	6.6	11	11
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0	<2.0	<2.0	2.7 J	<2.0
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
Perfluoroheptanoic Acid	4.5	4.5	4.7	5.4	5.2
<b>Total Attachment C<sup>1,2</sup></b>	<b>53</b>	<b>72</b>	<b>69</b>	<b>66</b>	<b>65</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>57</b>	<b>78</b>	<b>76</b>	<b>77</b>	<b>76</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>68</b>	<b>84</b>	<b>81</b>	<b>97</b>	<b>97</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q3 2021	Q3 2021	Q3 2021	Q3 2021	Q3 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CAP0921-CFR-TARHEEL-091521	CAP0921-CFR-TARHEEL-24-091521	CFR-TARHEEL-24-091621	CFR-TARHEEL-24-092021	CFR-TARHEEL-24-092121
Sample Date	09/15/21	09/15/21	09/16/21	09/20/21	09/21/21
Sample Type	Grab	Composite	Composite	Composite	Composite
Sample Start Date and Time	-	09/14/21 9:36 PM	09/16/21 12:01 AM	09/20/21 12:01 AM	09/21/21 12:01 AM
Sample Stop Date and Time	-	09/15/21 8:36 PM	09/16/21 11:01 PM	09/20/21 11:01 PM	09/21/21 11:01 PM
Composite Duration (hours)	-	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-79067-1	320-79449-1	320-79407-1	320-79516-1	320-79516-1
Lab Sample ID	320-79067-4	320-79449-1	320-79407-3	320-79516-1	320-79516-2
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	14	13	13	14	14
PFMOAA	39	37	41	34	33
PFO2HxA	21	18	18	16	16
PFO3OA	5.1	4.3	4.4	3.3	3.6
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	24	21	20	15	16
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	8.8 J	11 J	13 J	6.2 J	4.2 J
Hydrolyzed PSDA	11 J	12 J	13 J	6.4 J	6.1 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	9.3	10	12	4.8	4.5
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	3.0 J	2.5 J	2.6 J	<2.0	<2.0
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
Perfluoroheptanoic Acid	5.6	5.2	5.4	7.0	6.3
<b>Total Attachment C<sup>1,2</sup></b>	<b>100</b>	<b>93</b>	<b>96</b>	<b>82</b>	<b>83</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>110</b>	<b>100</b>	<b>110</b>	<b>87</b>	<b>87</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>140</b>	<b>130</b>	<b>140</b>	<b>100</b>	<b>97</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q3 2021	Q3 2021	Q4 2021	Q4 2021	Q4 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-092721	CFR-TARHEEL-24-093021	CFR-TARHEEL-24-100421	CFR-TARHEEL-24-100721	CFR-TARHEEL-24-101121
Sample Date	09/27/21	09/30/21	10/04/21	10/07/21	10/11/21
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	09/27/21 12:01 AM	09/30/21 12:01 AM	10/04/21 12:01 AM	10/07/21 12:01 AM	10/11/21 12:01 AM
Sample Stop Date and Time	09/27/21 11:01 PM	09/30/21 11:01 PM	10/04/21 11:01 PM	10/07/21 11:01 PM	10/11/21 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-80088-1	320-80088-1	320-80341-1	320-80341-1	320-80531-1
Lab Sample ID	320-80088-1	320-80088-2	320-80341-1	320-80341-2	320-80531-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	6.7	13	13	14	3.6
PFMOAA	21	39	31	31	9.4
PFO2HxA	7.1	15	16	16	4.8
PFO3OA	<2.0	3.3	3.6	4.0	<2.0
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	13	18	16	14	<10
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	7.3 J	6.4 J	4.3 J	7.8 J	7.1 J
Hydrolyzed PSDA	6.4 J	12 J	6.1 J	11 J	4.6 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	<2.0	2.5	3.0	6.0	5.7
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0	2.1 J	<2.0	2.3 J	<2.0
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
Perfluoroheptanoic Acid	<2.0	2.3	2.9	3.5	5.1
<b>Total Attachment C<sup>1,2</sup></b>	<b>48</b>	<b>88</b>	<b>80</b>	<b>79</b>	<b>18</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>48</b>	<b>91</b>	<b>83</b>	<b>85</b>	<b>24</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>62</b>	<b>110</b>	<b>93</b>	<b>110</b>	<b>35</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q4 2021	Q4 2021	Q4 2021	Q4 2021	Q4 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-101121-D	CFR-TARHEEL-24-101521	CFR-TARHEEL-24-101821	CFR-TARHEEL-24-102121	CFR-TARHEEL-24-102521
Sample Date	10/11/21	10/15/21	10/18/21	10/21/21	10/25/21
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	10/11/21 12:01 AM	10/15/21 12:01 AM	10/18/21 12:01 AM	10/21/21 12:01 AM	10/25/21 12:01 AM
Sample Stop Date and Time	10/11/21 11:01 PM	10/15/21 11:01 PM	10/18/21 11:01 PM	10/21/21 11:01 PM	10/25/21 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC	Field Duplicate				
Sample Delivery Group (SDG)	320-80531-1	320-80531-1	320-81068-1	320-81068-1	320-81213-1
Lab Sample ID	320-80531-2	320-80531-3	320-81068-1	320-81068-2	320-81213-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	3.1	7.8	12	13	14
PFMOAA	10	21	22	30	21
PFO2HxA	4.5	9.5	15	17	16
PFO3OA	<2.0	2.4	3.5	4.1	3.7
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	<10	10	19	23	26
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	<2.0	<2.0	<2.0	11 J	<2.0
Hydrolyzed PSDA	5.1 J	5.3 J	7.6 J	12 J	8.5 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	5.7	<2.0	2.9	5.8	7.4
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0	<2.0	<2.0	3.0 J	<2.0
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
Perfluoroheptanoic Acid	5.2	2.6	2.7	2.8	3.7
<b>Total Attachment C<sup>1,2</sup></b>	<b>18</b>	<b>51</b>	<b>72</b>	<b>87</b>	<b>81</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>23</b>	<b>51</b>	<b>74</b>	<b>93</b>	<b>88</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>28</b>	<b>56</b>	<b>82</b>	<b>120</b>	<b>97</b>



**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q4 2021	Q4 2021	Q4 2021	Q4 2021	Q4 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-102821	CFR-TARHEEL-24-110121	CFR-TARHEEL-24-110421	CFR-TARHEEL-24-110821	CFR-TARHEEL-24-110821-D
Sample Date	10/28/21	11/01/21	11/04/21	11/08/21	11/08/21
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	10/28/21 12:01 AM	11/01/21 12:01 AM	11/04/21 12:01 AM	11/08/21 12:01 AM	11/08/21 12:01 AM
Sample Stop Date and Time	10/28/21 11:01 PM	11/01/21 11:01 PM	11/04/21 11:01 PM	11/08/21 11:01 PM	11/08/21 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC					Field Duplicate
Sample Delivery Group (SDG)	320-81213-1	320-81550-1	320-81550-1	320-81858-1	320-81858-1
Lab Sample ID	320-81213-2	320-81550-1	320-81550-2	320-81858-1	320-81858-2
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	12	13	12	14	15
PFMOAA	23	20	21	23 J	19
PFO2HxA	11	13	14	15	15
PFO3OA	3.5	3.5	3.4	4.1	4.3
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	22	22	22	21	21
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	<2.0	<2.0	<2.0	9.8 J	7.6 J
Hydrolyzed PSDA	8.1 J	12 J	11 J	8.3 J	8.2 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	6.1	5.4	6.1	6.9	6.9
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0	<2.0	<2.0	3.4 J	<2.0
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
Perfluoroheptanoic Acid	4.9	4.8	5.9	4.9	4.5
<b>Total Attachment C<sup>1,2</sup></b>	<b>72</b>	<b>72</b>	<b>72</b>	<b>77</b>	<b>74</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>78</b>	<b>77</b>	<b>79</b>	<b>84</b>	<b>81</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>86</b>	<b>89</b>	<b>90</b>	<b>110</b>	<b>97</b>

**TABLE B1**  
**CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS**  
**Chemours Fayetteville Works, North Carolina**

Sampling Event	Q4 2021	Q4 2021	Q4 2021	Q4 2021	Q4 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-111121	CFR-TARHEEL-24-111521	CFR-TARHEEL-24-111821	CFR-TARHEEL-24-112221	CFR-TARHEEL-24-112521
Sample Date	11/11/21	11/15/21	11/18/21	11/22/21	11/25/21
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	11/11/21 12:01 AM	11/15/21 12:01 AM	11/18/21 12:01 AM	11/22/21 12:01 AM	11/25/21 12:01 AM
Sample Stop Date and Time	11/11/21 11:01 PM	11/15/21 11:01 PM	11/18/21 11:01 PM	11/22/21 11:01 PM	11/25/21 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-81858-1	320-82176-1	320-82176-1	320-82423-1	320-82422-1
Lab Sample ID	320-81858-3	320-82176-1	320-82176-2	320-82423-1	320-82422-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	13	11	20	13	12
PFMOAA	19	20	22	14	16
PFO2HxA	14	14	19	14	15
PFO3OA	3.5	3.8	4.2	3.5	3.3
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	29	19	29	17	15
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	<2.0	14 J	12 J	<2.0	5.7 J
Hydrolyzed PSDA	7.5 J	10 J	11 J	5.8 J	6.8 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	6.5	8.7	7.4	6.1	6.6
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0	<2.0	<2.0	<2.0	<2.0
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
Perfluoroheptanoic Acid	4.8	5.8	5.8	5.0	5.1
<b>Total Attachment C<sup>1,2</sup></b>	<b>79</b>	<b>68</b>	<b>94</b>	<b>62</b>	<b>61</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>85</b>	<b>77</b>	<b>100</b>	<b>68</b>	<b>68</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>93</b>	<b>100</b>	<b>120</b>	<b>73</b>	<b>80</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q4 2021	Q4 2021	Q4 2021	Q4 2021	Q4 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-112921	CFR-TARHEEL-24-120221	CFR-TARHEEL-24-120621	CFR-TARHEEL-24-120921	CFR-TARHEEL-24-121321
Sample Date	11/29/21	12/02/21	12/06/21	12/09/21	12/13/21
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	11/29/21 12:01 AM	12/02/21 12:01 AM	12/06/21 12:01 AM	12/09/21 12:01 AM	12/13/21 12:01 AM
Sample Stop Date and Time	11/29/21 11:01 PM	12/02/21 11:01 PM	12/06/21 11:01 PM	12/09/21 11:01 PM	12/13/21 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-82422-1	320-82937-1	320-82937-1	320-82937-1	320-83383-1
Lab Sample ID	320-82422-2	320-82937-1	320-82937-2	320-82937-3	320-83383-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	13	4.5 J	6.0 J	30 J	<2.0 UJ
PFMOAA	14	27 J	26 J	37 J	6.4 J
PFO2HxA	13	16 J	15 J	22 J	8.2 J
PFO3OA	3.4	4.1 J	4.1 J	7.0 J	<2.0 UJ
PFO4DA	<2.0	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ
PFO5DA	<2.0	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ
PMPA	13	13 J	13 J	20 J	<10 UJ
PEPA	<20	<20 UJ	<20 UJ	<20 UJ	<20 UJ
PS Acid	<2.0	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ
Hydro-PS Acid	<2.0	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ
R-PSDA	<2.0	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ
Hydrolyzed PSDA	5.6 J	6.6 J	7.1 J	13 J	<2.0 UJ
R-PSDCA	<2.0	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ
NVHOS	5.7	<2.0 UJ	<2.0 UJ	<2.0 UJ	5.2 J
EVE Acid	<2.0	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ
Hydro-EVE Acid	<2.0	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ
R-EVE	<2.0	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ
PES	<2.0	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ
PFECA B	<2.0	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ
PFECA-G	<2.0	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ
Perfluoroheptanoic Acid	5.1	4.9 J	4.7 J	4.4 J	2.6 J
<b>Total Attachment C<sup>1,2</sup></b>	<b>56</b>	<b>65</b>	<b>64</b>	<b>120</b>	<b>15</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>62</b>	<b>65</b>	<b>64</b>	<b>120</b>	<b>20</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>68</b>	<b>71</b>	<b>71</b>	<b>130</b>	<b>20</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q4 2021	Q4 2021	Q4 2021	Q4 2021	Q4 2021
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-121621	CFR-TARHEEL-24-122021	CFR-TARHEEL-24-122321	CFR-TARHEEL-24-122721	CFR-TARHEEL-24-123021
Sample Date	12/16/21	12/20/21	12/23/21	12/27/21	12/30/21
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	12/16/21 12:01 AM	12/20/21 12:01 AM	12/23/21 12:01 AM	12/27/21 12:01 AM	12/30/21 12:01 AM
Sample Stop Date and Time	12/16/21 11:01 PM	12/20/21 11:01 PM	12/23/21 11:01 PM	12/27/21 11:01 PM	12/30/21 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-83383-1	320-83491-1	320-83491-1	320-83591-1	320-83591-1
Lab Sample ID	320-83383-2	320-83491-1	320-83491-2	320-83591-1	320-83591-2
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	6.5 J	14	7.7	12	12
PFMOAA	31 J	32	18	28	29
PFO2HxA	15 J	17	10	14	14
PFO3OA	3.6 J	4.8	<2.0	3.9	2.9
PFO4DA	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
PMPA	<10 UJ	17	11	12	15
PEPA	<20 UJ	<20	<20	<20	<20
PS Acid	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
R-PSDA	<2.0 UJ	11 J	14 J	5.9 J	4.9 J
Hydrolyzed PSDA	<2.0 UJ	6.2 J	6.5 J	8.9 J	5.7 J
R-PSDCA	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
NVHOS	12 J	8.8	11	4.2	3.5
EVE Acid	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0 UJ	2.4 J	2.0 J	<2.0	<2.0
PES	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
PFECA B	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
PFECA-G	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	5.2 J	5.0	4.8	4.4	4.3
<b>Total Attachment C<sup>1,2</sup></b>	<b>56</b>	<b>85</b>	<b>47</b>	<b>70</b>	<b>73</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>68</b>	<b>94</b>	<b>58</b>	<b>74</b>	<b>76</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>68</b>	<b>110</b>	<b>80</b>	<b>89</b>	<b>87</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q1 2022	Q1 2022	Q1 2022	Q1 2022	Q1 2022
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-010222	CFR-TARHEEL-24-010322	CFR-TARHEEL-24-011122	CFR-TARHEEL-24-011322	CFR-TARHEEL-24-011922
Sample Date	01/02/22	01/03/22	01/11/22	01/13/22	01/19/22
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	01/02/22 12:01 AM	01/03/22 12:01 AM	01/11/22 12:01 AM	01/13/22 12:01 AM	01/19/22 12:01 AM
Sample Stop Date and Time	01/02/22 11:01 PM	01/03/22 11:01 PM	01/11/22 11:01 PM	01/13/22 11:01 PM	01/19/22 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-83755-1	320-83755-1	320-83911-1	320-83911-1	320-84220-1
Lab Sample ID	320-83755-1	320-83755-2	320-83911-1	320-83911-2	320-84220-1
<i>Table 3+ SOP (ng/L)</i>					
HFPO-DA	9.3	21	4.3	3.7	3.3
PFMOAA	16	28	10	<2.0	5.2
PFO2HxA	11	20	5.2	4.7	3.2
PFO3OA	2.7	5.3	<2.0	<2.0	<2.0
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	14	21	<10	<10	<10
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	<2.0	6.2 J	2.8 J	2.0 J	3.0 J
Hydrolyzed PSDA	3.3 J	14 J	3.3 J	2.2 J	2.6 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	3.2	4.1	<2.0	<2.0	<2.0
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0	<2.0	<2.0	<2.0	<2.0
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
Perfluoroheptanoic Acid	3.4	3.4	3.9	4.1	4.4
<b>Total Attachment C<sup>1,2</sup></b>	<b>53</b>	<b>95</b>	<b>20</b>	<b>8.4</b>	<b>12</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>56</b>	<b>99</b>	<b>20</b>	<b>8.4</b>	<b>12</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>60</b>	<b>120</b>	<b>26</b>	<b>13</b>	<b>17</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q1 2022	Q1 2022	Q1 2022	Q1 2022	Q1 2022
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-011922-D	CFR-TARHEEL-15-012022	CFR-TARHEEL-24-012522	CFR-TARHEEL-24-012822	CFR-TARHEEL-24-013122
Sample Date	01/19/22	01/20/22	01/25/22	01/28/22	01/31/22
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	01/19/22 12:01 AM	01/20/22 12:01 AM	01/25/22 12:01 AM	01/28/22 12:01 AM	01/31/22 12:01 AM
Sample Stop Date and Time	01/19/22 11:01 PM	01/20/22 11:01 PM	01/25/22 11:01 PM	01/28/22 11:01 PM	01/31/22 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC	Field Duplicate				
Sample Delivery Group (SDG)	320-84220-1	320-84220-1	320-84487-1	320-84487-1	320-84700-1
Lab Sample ID	320-84220-2	320-84220-3	320-84487-1	320-84487-2	320-84700-1
<i>Table 3+ SOP (ng/L)</i>					
HFPO-DA	3.5	2.9	4.2	4.8	6.6
PFMOAA	4.9	5.1	<2.0	8.0	13
PFO2HxA	4.0	3.1	3.7	5.0	7.1
PFO3OA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	<10	<10	<10	10	13
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	2.1 J	2.8 J	<2.0	<2.0	<2.0
Hydrolyzed PSDA	<2.0	<2.0	<2.0	<2.0	2.9 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	<2.0	<2.0	<2.0	<2.0	2.8
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0	<2.0	<2.0	<2.0	<2.0
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
Perfluoroheptanoic Acid	4.0	3.6	3.8	4.0	4.7
<b>Total Attachment C<sup>1,2</sup></b>	<b>12</b>	<b>11</b>	<b>7.9</b>	<b>28</b>	<b>40</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>12</b>	<b>11</b>	<b>7.9</b>	<b>28</b>	<b>43</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>15</b>	<b>14</b>	<b>7.9</b>	<b>28</b>	<b>45</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q1 2022	Q1 2022	Q1 2022	Q1 2022	Q1 2022
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-020322	CFR-TARHEEL-24-020722	CFR-TARHEEL-24-020722-D	CFR-TARHEEL-24-021122	CFR-TARHEEL-24-021422
Sample Date	02/03/22	02/07/22	02/07/22	02/11/22	02/14/22
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	02/03/22 12:01 AM	02/07/22 12:01 AM	02/07/22 12:01 AM	02/11/22 12:01 AM	02/14/22 12:01 AM
Sample Stop Date and Time	02/03/22 11:01 PM	02/07/22 11:01 PM	02/07/22 11:01 PM	02/11/22 11:01 PM	02/14/22 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC			Field Duplicate		
Sample Delivery Group (SDG)	320-84700-1	320-84700-1	320-84700-1	320-85103-1	320-85103-1
Lab Sample ID	320-84700-2	320-84700-3	320-84700-4	320-85103-1	320-85103-2
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	8.3	4.3	4.4	3.6	5.3
PFMOAA	19	9.0	9.4	5.5 J	7.7
PFO2HxA	11	4.8	5.1	3.6	7.3
PFO3OA	3.7	<2.0	<2.0	<2.0	<2.0
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	15	12	11	<10	11
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	<2.0	<2.0	3.0 J	<2.0	<2.0
Hydrolyzed PSDA	3.8 J	2.1 J	2.4 J	<2.0	2.3 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	2.7	4.0	3.9	<2.0	3.3
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0	<2.0	<2.0	<2.0	<2.0
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
Perfluoroheptanoic Acid	3.9	4.6	4.8	4.2	3.5
<b>Total Attachment C<sup>1,2</sup></b>	<b>57</b>	<b>30</b>	<b>30</b>	<b>13</b>	<b>31</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>60</b>	<b>34</b>	<b>34</b>	<b>13</b>	<b>35</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>64</b>	<b>36</b>	<b>39</b>	<b>13</b>	<b>37</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q1 2022	Q1 2022	Q1 2022	Q1 2022	Q1 2022
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-021822	CFR-TARHEEL-24-022622	CFR-TARHEEL-24-022722	CFR-TARHEEL-24-022822	CFR-TARHEEL-24-030322
Sample Date	02/18/22	02/26/22	02/27/22	02/28/22	03/03/22
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	02/18/22 12:01 AM	02/26/22 12:01 AM	02/27/22 12:01 AM	02/28/22 12:01 AM	03/03/22 12:01 AM
Sample Stop Date and Time	02/18/22 11:01 PM	02/26/22 11:01 PM	02/27/22 11:01 PM	02/28/22 11:01 PM	03/03/22 11:01 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-85290-1	320-85290-1	320-85290-1	320-85290-1	320-85714-1
Lab Sample ID	320-85290-1	320-85290-3	320-85290-2	320-85290-4	320-85714-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	<2.0	<2.0	<2.0	<2.0	<b>2.9</b>
PFMOAA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO2HxA	<b>5.6 J</b>	<b>7.0</b>	<b>3.8</b>	<2.0	<b>3.9</b>
PFO3OA	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	<10	<10	<10	<10	<10
PEPA	<20 UJ	<20	<20	<20	<20
PS Acid	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	<2.0	<2.0	<2.0	<2.0	<b>12 J</b>
Hydrolyzed PSDA	<2.0	<2.0	<2.0	<2.0	<b>2.0 J</b>
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	<2.0 UJ	<2.0	<2.0	<2.0	<b>5.1</b>
EVE Acid	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0	<2.0	<2.0	<2.0	<b>4.7 J</b>
PES	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
PFECA B	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
PFECA-G	<2.0 UJ	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	<2.0	<b>3.4</b>	<b>3.2</b>	<2.0	<b>4.8</b>
<b>Total Attachment C<sup>1,2</sup></b>	<b>5.6</b>	<b>7.0</b>	<b>3.8</b>	ND	<b>6.8</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>5.6</b>	<b>7.0</b>	<b>3.8</b>	ND	<b>12</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>5.6</b>	<b>7.0</b>	<b>3.8</b>	ND	<b>31</b>



**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q1 2022	Q1 2022	Q1 2022	Q1 2022	Q1 2022
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-030722	CFR-TARHEEL-24-031022	CFR-TARHEEL-24-031022-D	CFR-TARHEEL-031722	CFR-TARHEEL-031822
Sample Date	03/07/22	03/10/22	03/10/22	03/17/22	03/18/22
Sample Type	Composite	Composite	Composite	Grab	Grab
Sample Start Date and Time	03/07/22 12:01 AM	03/10/22 12:01 AM	03/10/22 12:01 AM	03/17/22 12:30 PM	03/18/22 9:00 AM
Sample Stop Date and Time	03/07/22 11:01 PM	03/10/22 11:01 PM	03/10/22 11:01 PM	03/17/22 12:30 PM	03/18/22 9:00 AM
Composite Duration (hours)	24	24	24	24	24
QA/QC			Field Duplicate		
Sample Delivery Group (SDG)	320-85714-1	320-85714-1	320-85714-1	320-85968-1	320-85968-1
Lab Sample ID	320-85714-2	320-85714-3	320-85714-4	320-85968-1	320-85968-2
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	6.8	7.0	7.4	2.1	<2.0
PFMOAA	11	12 J	12	<2.0	<2.0
PFO2HxA	8.2	9.4	9.8	2.6	<2.0
PFO3OA	2.0	2.3	2.6	<2.0	<2.0
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	<10	10	11	<10	<10
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	11 J	9.8 J	10 J	<2.0	<2.0
Hydrolyzed PSDA	2.9 J	3.5 J	3.6 J	<2.0	<2.0
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	5.7	6.8	7.3	<2.0	<2.0
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	4.8 J	5.2 J	5.5 J	<2.0	<2.0
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
Perfluoroheptanoic Acid	4.8	4.5	4.4	3.4	3.5
<b>Total Attachment C<sup>1,2</sup></b>	<b>28</b>	<b>41</b>	<b>43</b>	<b>4.7</b>	<b>ND</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>34</b>	<b>48</b>	<b>50</b>	<b>4.7</b>	<b>ND</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>52</b>	<b>66</b>	<b>69</b>	<b>4.7</b>	<b>ND</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q1 2022	Q1 2022	Q1 2022	Q1 2022	Q2 2022
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-032322	CFR-TARHEEL-032422	CFR-TARHEEL-24-032922	CFR-TARHEEL-24-033122	CFR-TARHEEL-24-040422
Sample Date	03/23/22	03/24/22	03/29/22	03/31/22	04/04/22
Sample Type	Composite	Grab	Composite	Composite	Composite
Sample Start Date and Time	03/23/22 12:01 AM	03/24/22 1:05 PM	03/29/22 12:01 AM	03/31/22 12:01 AM	04/03/22 5:33 PM
Sample Stop Date and Time	03/23/22 11:01 PM	03/24/22 1:05 PM	03/29/22 11:01 PM	03/31/22 11:01 PM	04/04/22 4:33 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-86394-1	320-86394-1	320-86394-1	320-86394-1	320-86723-1
Lab Sample ID	320-86394-1	320-86394-2	320-86394-3	320-86394-4	320-86723-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	3.5	3.0	2.3	2.9	2.5
PFMOAA	8.9	3.2	3.1	3.5	<2.0
PFO2HxA	4.6	3.2	2.6	3.4	3.4
PFO3OA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	<10	<10	<10	<10	<10
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	<2.0	<2.0	<2.0	<2.0	<2.0
Hydrolyzed PSDA	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	<2.0	<2.0	<2.0	<2.0	<2.0
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0	<2.0	<2.0	<2.0	<2.0
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
Perfluoroheptanoic Acid	3.0	3.1	3.9	3.6	2.8
<b>Total Attachment C<sup>1,2</sup></b>	<b>17</b>	<b>9.4</b>	<b>8.0</b>	<b>9.8</b>	<b>5.9</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>17</b>	<b>9.4</b>	<b>8.0</b>	<b>9.8</b>	<b>5.9</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>17</b>	<b>9.4</b>	<b>8.0</b>	<b>9.8</b>	<b>5.9</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q2 2022	Q2 2022	Q2 2022	Q2 2022	Q2 2022
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-040722	CFR-TARHEEL-24-041122	CFR-TARHEEL-24-041122-D	CFR-TARHEEL-24-041522	CFR-TARHEEL-24-042122
Sample Date	04/07/22	04/11/22	04/11/22	04/15/22	04/21/22
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	04/06/22 5:33 PM	04/11/22 5:33 PM	04/11/22 5:33 PM	04/14/22 5:33 PM	04/20/22 5:33 PM
Sample Stop Date and Time	04/07/22 4:33 PM	04/12/22 4:33 PM	04/12/22 4:33 PM	04/15/22 4:33 PM	04/21/22 4:33 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC			Field Duplicate		
Sample Delivery Group (SDG)	320-86723-1	320-86723-1	320-86723-1	320-87320-1	320-87320-1
Lab Sample ID	320-86723-2	320-86723-3	320-86723-4	320-87320-1	320-87320-2
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	3.9	4.9	4.4	5.3	<2.0
PFMOAA	8.5	10	11	<2.0	<2.0
PFO2HxA	5.4	5.7	6.0	6.4	<2.0
PFO3OA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	<10	11	10	<10	<10
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	<2.0	<2.0	<2.0	<2.0	<2.0
Hydrolyzed PSDA	11 J	4.3 J	5.2 J	<2.0	<2.0
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	<2.0	2.1	2.2	2.7	<2.0
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0	<2.0	<2.0	<2.0	<2.0
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
Perfluoroheptanoic Acid	3.6	2.3	2.1	2.4	3.3
<b>Total Attachment C<sup>1,2</sup></b>	<b>18</b>	<b>32</b>	<b>31</b>	<b>12</b>	<b>0.0</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>18</b>	<b>34</b>	<b>34</b>	<b>14</b>	<b>0.0</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>29</b>	<b>38</b>	<b>39</b>	<b>14</b>	<b>0.0</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q2 2022	Q2 2022	Q2 2022	Q2 2022	Q2 2022
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-042222	CFR-TARHEEL-24-042522	CFR-TARHEEL-24-042822	CFR-TARHEEL-24-050222	CFR-TARHEEL-24-050522
Sample Date	04/22/22	04/25/22	04/28/22	05/02/22	05/05/22
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	04/21/22 5:33 PM	04/24/22 5:33 PM	04/27/22 5:33 PM	05/01/22 5:33 PM	05/04/22 5:33 PM
Sample Stop Date and Time	04/22/22 4:33 PM	04/25/22 4:33 PM	04/28/22 4:33 PM	05/02/22 4:33 PM	05/05/22 4:33 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-87320-1	320-87533-1	320-87533-1	320-87533-1	320-87738-1
Lab Sample ID	320-87320-3	320-87533-1	320-87533-2	320-87533-3	320-87738-1
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	<2.0	5.3	4.6	7.3	8.1
PFMOAA	<2.0	<2.0	14	20	15
PFO2HxA	2.1	6.5	5.8	8.1	11
PFO3OA	<2.0	<2.0	<2.0	2.2	2.5
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	<10	11	<10	11	<10
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	<2.0	<2.0	<2.0	<2.0	<2.0
Hydrolyzed PSDA	<2.0	<2.0	2.8 J	4.6 J	6.6 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	<2.0	4.3	4.4	6.0	8.1
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0	<2.0	<2.0	<2.0	<2.0
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
Perfluoroheptanoic Acid	4.9	4.5	3.1	3.8	3.8
<b>Total Attachment C<sup>1,2</sup></b>	2.1	23	24	49	37
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	2.1	27	29	55	45
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	2.1	27	32	59	51

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q2 2022	Q2 2022	Q2 2022	Q2 2022	Q2 2022
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-050922	CFR-TARHEEL-24-050922-D	CFR-TARHEEL-24-051322	CFR-TARHEEL-24-051622	CFR-TARHEEL-24-051922
Sample Date	05/09/22	05/09/22	05/13/22	05/16/22	05/19/22
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	05/08/22 5:33 PM	05/08/22 5:33 PM	05/12/22 5:33 PM	05/15/22 5:33 PM	05/18/22 5:33 PM
Sample Stop Date and Time	05/09/22 4:33 PM	05/09/22 4:33 PM	05/13/22 4:33 PM	05/16/22 4:33 PM	05/19/22 4:33 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC		Field Duplicate			
Sample Delivery Group (SDG)	320-87738-1	320-87738-1	320-88168-1	320-88168-1	320-88168-1
Lab Sample ID	320-87738-2	320-87738-3	320-88168-1	320-88168-2	320-88168-3
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	6.3	5.5	5.7	6.6	5.7
PFMOAA	15	14	14	14	15
PFO2HxA	10	8.3	7.5	7.1	6.7
PFO3OA	2.5	2.0	2.1	<2.0	<2.0
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	<10	<10	<10	<10	<10
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	<2.0	<2.0	<2.0	3.8 J	6.9 J
Hydrolyzed PSDA	7.5 J	6.9 J	4.7 J	4.9 J	5.0 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	8.0	7.6	2.6	4.1	5.3
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0	<2.0	<2.0	<2.0	<2.0
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
Perfluoroheptanoic Acid	3.8	3.4	3.0	3.6	5.3
<b>Total Attachment C<sup>1,2</sup></b>	<b>34</b>	<b>30</b>	<b>29</b>	<b>28</b>	<b>27</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>42</b>	<b>37</b>	<b>32</b>	<b>32</b>	<b>33</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>49</b>	<b>44</b>	<b>37</b>	<b>41</b>	<b>45</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q2 2022	Q2 2022	Q2 2022	Q2 2022	Q2 2022
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-052322	CFR-TARHEEL-24-052622	CFR-TARHEEL-24-053022	CFR-TARHEEL-24-060222	CFR-TARHEEL-24-060622
Sample Date	05/23/22	05/26/22	05/30/22	06/02/22	06/06/22
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	05/22/22 5:33 PM	05/25/22 5:33 PM	05/29/22 5:33 PM	06/01/22 5:33 PM	06/05/22 5:33 PM
Sample Stop Date and Time	05/23/22 4:33 PM	05/26/22 4:33 PM	05/30/22 4:33 PM	06/02/22 4:33 PM	06/06/22 4:33 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-88586-1	320-88586-1	320-88586-1	320-88768-1	320-88768-1
Lab Sample ID	320-88586-1	320-88586-2	320-88586-3	320-88768-1	320-88768-2
<b>Table 3+ SOP (ng/L)</b>					
HFPO-DA	8.9	3.0	<2.0	3.7	9.1
PFMOAA	22	8.6	<2.0	8.5	20
PFO2HxA	10	3.9	<2.0	3.8	10
PFO3OA	2.7	<2.0	<2.0	<2.0	2.5
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	<10	<10	<10	<10	<10
PEPA	<20	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDA	4.2 J	<2.0	<2.0	<2.0	<2.0
Hydrolyzed PSDA	6.0 J	3.7 J	<2.0	<2.0	7.2 J
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0
NVHOS	4.0	6.6	<2.0	3.3	3.6
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0	<2.0	<2.0	<2.0	<2.0
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
Perfluoroheptanoic Acid	5.1	5.6	4.5	4.6	4.3
<b>Total Attachment C<sup>1,2</sup></b>	<b>44</b>	<b>16</b>	<b>0.0</b>	<b>16</b>	<b>42</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>48</b>	<b>22</b>	<b>0.0</b>	<b>19</b>	<b>45</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>58</b>	<b>26</b>	<b>0.0</b>	<b>19</b>	<b>52</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q2 2022	Q2 2022	Q2 2022	Q2 2022	Q2 2022
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-24-060622-D	CFR-TARHEEL-24-060922	CFR-TARHEEL-24-061322	CFR-TARHEEL-24-061622	CFR-TARHEEL-24-062022
Sample Date	06/06/22	06/09/22	06/13/22	06/16/22	06/20/22
Sample Type	Composite	Composite	Composite	Composite	Composite
Sample Start Date and Time	06/05/22 5:33 PM	06/08/22 5:33 PM	06/12/22 5:33 PM	06/15/22 5:33 PM	06/19/22 5:33 PM
Sample Stop Date and Time	06/06/22 4:33 PM	06/09/22 4:33 PM	06/13/22 4:33 PM	06/16/22 4:33 PM	06/20/22 4:33 PM
Composite Duration (hours)	24	24	24	24	24
QA/QC	Field Duplicate				
Sample Delivery Group (SDG)	320-88768-1	320-89254-1	320-89254-1	320-89254-1	320-89531-1
Lab Sample ID	320-88768-3	320-89254-1	320-89254-2	320-89254-3	320-89531-1
<i>Table 3+ SOP (ng/L)</i>					
HFPO-DA	12	11	8.5	8.0	9.7 J
PFMOAA	24	22	20	22	21 J
PFO2HxA	13	12	10	10	13 J
PFO3OA	3.3	3.2	2.6	2.6	3.2 J
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
PMPA	10	<10	<10	<10	<10 UJ
PEPA	<20	<20	<20	<20	<20 UJ
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
R-PSDA	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
Hydrolyzed PSDA	8.3 J	4.7 J	6.5 J	6.8 J	<2.0 UJ
R-PSDCA	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
NVHOS	3.7	2.7	7.3	8.2	<2.0 UJ
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
R-EVE	<2.0	<2.0	<2.0	2.0 J	<2.0 UJ
PES	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
PFECA B	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
PFECA-G	<2.0	<2.0	<2.0	<2.0	<2.0 UJ
Perfluoroheptanoic Acid	5.2	4.7	3.5	4.0	3.9 J
<b>Total Attachment C<sup>1,2</sup></b>	<b>62</b>	<b>48</b>	<b>41</b>	<b>43</b>	<b>47</b>
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>66</b>	<b>51</b>	<b>48</b>	<b>51</b>	<b>47</b>
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>74</b>	<b>56</b>	<b>55</b>	<b>60</b>	<b>47</b>

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q2 2022	Q2 2022	Q2 2022	Q1 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	EB
Field Sample ID	CFR-TARHEEL-24-062322	CFR-TARHEEL-24-062722	CFR-TARHEEL-24-063022	CFR-EQBLK-1-040820
Sample Date	06/23/22	06/27/22	06/30/22	04/08/20
Sample Type	Composite	Composite	Composite	Grab
Sample Start Date and Time	06/22/22 5:33 PM	06/26/22 5:33 PM	06/29/22 5:33 PM	-
Sample Stop Date and Time	06/23/22 4:33 PM	06/27/22 4:33 PM	06/30/22 4:33 PM	-
Composite Duration (hours)	24	24	24	-
QA/QC				Equipment Blank
Sample Delivery Group (SDG)	320-89531-1	320-89798-1	320-89798-1	320-60098-1
Lab Sample ID	320-89531-2	320-89798-1	320-89798-2	320-60098-5
<b>Table 3+ SOP (ng/L)</b>				
HFPO-DA	9.1	11	11	<4
PFMOAA	18	23	24	<5
PFO2HxA	11	13	13	<2
PFO3OA	2.9	3.0	3.5	<2
PFO4DA	<2.0	<2.0	<2.0	<2
PFO5DA	<2.0	<2.0	<2.0	<2
PMPA	<10	<10	<10	<10
PEPA	<20	<20	<20	<20
PS Acid	<2.0	<2.0	<2.0	<2
Hydro-PS Acid	<2.0	<2.0	<2.0	<2
R-PSDA	<2.0	<2.0	<2.0	<2
Hydrolyzed PSDA	<2.0	7.9 J	9.0 J	<2
R-PSDCA	<2.0	<2.0	<2.0	<2
NVHOS	<2.0	11	8.6	<2
EVE Acid	<2.0	<2.0	<2.0	<2
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2
R-EVE	<2.0	<2.0	<2.0	<2
PES	<2.0	<2.0	<2.0	<2
PFECA B	<2.0	<2.0	<2.0	<2
PFECA-G	<2.0	<2.0	<2.0	<2
Perfluoroheptanoic Acid	4.1	3.8	3.9	<2
<b>Total Attachment C<sup>1,2</sup></b>	<b>41</b>	<b>50</b>	<b>52</b>	ND
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	<b>41</b>	<b>61</b>	<b>60</b>	ND
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	<b>41</b>	<b>69</b>	<b>69</b>	ND



**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q2 2020	Q2 2020	Q2 2020	Q2 2020
Location ID	EB	EB	FBLK	FBLK
Field Sample ID	CFR-TARHEEL-EB-052520	CFR-TARHEEL-EB-060120	CFR-TARHEEL-FB-052520	CFR-TARHEEL-FB-060120
Sample Date	05/25/20	06/01/20	05/25/20	06/01/20
Sample Type	Grab	Grab	Grab	Grab
Sample Start Date and Time	-	-	-	-
Sample Stop Date and Time	-	-	-	-
Composite Duration (hours)	-	-	-	-
QA/QC	Equipment Blank	Equipment Blank	Field Blank	Field Blank
Sample Delivery Group (SDG)	320-61296-1	320-61452-1	320-61296-1	320-61452-1
Lab Sample ID	320-61296-4	320-61452-4	320-61296-3	320-61452-3
<i>Table 3+ SOP (ng/L)</i>				
HFPO-DA	<2	<2	<2	<2
PFMOAA	<5	<2	<5	<2
PFO2HxA	<2	<2	<2	<2
PFO3OA	<2	<2	<2	<2
PFO4DA	<2	4.1	<2	<2
PFO5DA	<2	<2	<2	<2
PMPA	<10	<13	<10	<13
PEPA	<20	<2	<20	<2
PS Acid	<2	<2	<2	<2
Hydro-PS Acid	<2	<2	<2	<2
R-PSDA	<2	<2	<2	<2
Hydrolyzed PSDA	<2	<2	<2	<2
R-PSDCA	<2	<2	<2	<2
NVHOS	<2	<2	<2	<2
EVE Acid	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2
R-EVE	<2	<2	<2	<2
PES	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2
Perfluoroheptanoic Acid	--	--	--	<2 UJ
<b>Total Attachment C<sup>1,2</sup></b>	ND	4.1	ND	ND
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	ND	4.1	ND	ND
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	ND	4.1	ND	ND

**TABLE B1  
CAPE FEAR RIVER TAR HEEL ANALYTICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Sampling Event	Q3 2020	Q1 2022
Location ID	EB	EB
Field Sample ID	CAP3Q20-EQBLK-ISCO-072920	CFR-TARHEEL-EB-031822
Sample Date	07/29/20	03/18/22
Sample Type	Grab	Grab
Sample Start Date and Time	-	-
Sample Stop Date and Time	-	-
Composite Duration (hours)	-	-
QA/QC	Equipment Blank	Equipment Blank
Sample Delivery Group (SDG)	320-63228-1	320-85968-1
Lab Sample ID	320-63228-4	320-85968-3
<b>Table 3+ SOP (ng/L)</b>		
HFPO-DA	<2	<2.0
PFMOAA	<2	<2.0
PFO2HxA	<2	<2.0
PFO3OA	<2	<2.0
PFO4DA	<2	<2.0
PFO5DA	<2	<2.0
PMPA	<20	<10
PEPA	<10	<20
PS Acid	<2	<2.0
Hydro-PS Acid	<2	<2.0
R-PSDA	<2 UJ	<2.0
Hydrolyzed PSDA	<2 UJ	<2.0
R-PSDCA	<2	<2.0
NVHOS	<2	<2.0
EVE Acid	<2	<2.0
Hydro-EVE Acid	<2	<2.0
R-EVE	<2 UJ	<2.0
PES	<2	<2.0
PFECA B	<2	<2.0
PFECA-G	<2	<2.0
Perfluoroheptanoic Acid	<2	<2.0
<b>Total Attachment C<sup>1,2</sup></b>	ND	ND
<b>Total Table 3+ (17 compounds)<sup>2,3</sup></b>	ND	ND
<b>Total Table 3+ (20 compounds)<sup>2</sup></b>	ND	ND

**Bold** - Analyte detected above associated reporting limit.

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

SOP - standard operating procedure

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

< - Analyte not detected above associated reporting limit.

- - not applicable

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, and R-EVE.

4 - Samples collected on November 24 and 26, 2020 were reanalyzed via method Table 3+ SOP. These reanalysis results were used in mass loading calculations.

5 - Samples collected on February 22, 24, and 25, 2021 were reanalyzed via modified method 537 Max. These reanalysis results were used in mass loading calculations.

6 - Samples collected on March 24 and 25, 2021 were reanalyzed and via modified method 537 Max (filtered and unfiltered). The unfiltered reanalysis results were used in mass loading calculations.

7 - Battery failure caused sampling to stop after 21 cycles.

8 - Sample collected on May 26, 2021 were reanalyzed and via modified method 537 Max (filtered and unfiltered). These reanalysis results are used in mass loading calculations.

9 - Samples collected at CFR-TARHEEL on August 19 and August 20, 2021 were reanalyzed. The reanalyzed results were used in mass loading calculations.

**TABLE B2**  
**SURFACE WATER OTHER PFAS ANALYTICAL RESULTS AT DOWNSTREAM LOCATIONS**  
**Chemours Fayetteville Works, North Carolina**

<b>Location ID</b>	<b>CFR-BLADEN</b>	<b>CFR-KINGS</b>	<b>CFR-TARHEEL</b>	<b>CFR-TARHEEL</b>	<b>EB</b>
<b>Field Sample ID</b>	<b>CAP2Q22-CFR-BLADEN-041922</b>	<b>CAP2Q22-CFR-KINGS-042122</b>	<b>CAP2Q22-CFR-TARHEEL-041922</b>	<b>CAP2Q22-CFR-TARHEEL-24-042022</b>	<b>CAP2Q22-EQBLK-PP-041922</b>
<b>Sample Date</b>	<b>04/19/22</b>	<b>04/21/22</b>	<b>04/19/22</b>	<b>04/20/22</b>	<b>04/19/22</b>
<b>QA/QC</b>					<b>Equipment Blank</b>
<b>Sample Delivery Group (SDG)</b>	<b>320-87040-1</b>	<b>320-87069-1</b>	<b>320-87040-1</b>	<b>320-87069-1</b>	<b>320-87040-1</b>
<b>Lab Sample ID</b>	<b>320-87040-3</b>	<b>320-87069-1</b>	<b>320-87040-4</b>	<b>320-87069-2</b>	<b>320-87040-6</b>
<b>537 Mod (ng/L)</b>					
Perfluorobutanoic Acid	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<b>7.0</b>	<b>6.9</b>	<b>7.1</b>	<b>7.2</b>	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	<b>8.3</b>	<b>9.1</b>	<b>7.8</b>	<b>8.6</b>	<2.0
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
PFOA	<b>6.3</b>	<b>6.4</b>	<b>5.8</b>	<b>6.1</b>	<2.0

**TABLE B2**  
**SURFACE WATER OTHER PFAS ANALYTICAL RESULTS AT DOWNSTREAM LOCATIONS**  
**Chemours Fayetteville Works, North Carolina**

Location ID	EB	FBLK
Field Sample ID	CAP2Q22-EQBLK-IS-042022	CAP2Q22-FBLK-042022
Sample Date	04/20/22	04/20/22
QA/QC	Equipment Blank	Field Blank
Sample Delivery Group (SDG)	320-87042-1	320-87042-1
Lab Sample ID	320-87042-6	320-87042-7
<b>537 Mod (ng/L)</b>		
Perfluorobutanoic Acid	<5.0	<5.0
Perfluorodecanoic Acid	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0
Perfluorohexadecanoic Acid (PFH <sub>x</sub> DA)	<2.0	<2.0
Perfluorohexanoic Acid	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0
Perfluorooctadecanoic Acid	<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

*Notes:*

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

**TABLE B3  
CAPE FEAR RIVER PFAS MASS LOAD BY COMPOUND AND TIME INTERVAL - HISTORICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Interval Details				Calculated Mass Load <sup>2</sup> (kg)																							Total Attachment C <sup>3</sup>	Total Table 3+ (17 Compounds) <sup>4</sup>	Total Table 3+ (20 Compounds)
Interval ID	Start Time <sup>1</sup>	End Time <sup>1</sup>	Total River Flow (m <sup>3</sup> )	HFPO-DA	PFMOAA	PFO2HxA	PFO3OA	PFO4DA	PFOSDA	PMPA	PEPA	PS Acid	Hydro-PS Acid	R-PSDA	Hydrolyzed PSDA	R-PSDCA	NVHOS	EVE Acid	Hydro-EVE Acid	R-EVE	PES	PFCEA B	PFCEA-G	PFHpA					
2020_1_Q1	3/28/20 1:00	3/31/20 12:30	90,900,221	0.29	2.5	0.83	0.10	0	0	1.2	0	0	0	0	0.75	0	0	0	0	0.10	0	0	0	1.3	4.9	4.9	5.8		
2020_2_Q1	3/31/20 12:30	4/2/20 13:30	27,756,145	0.28	1.2	0.39	0.09	0	0	0.47	0	0	0	0.22	0.39	0	0	0	0	0	0	0	0	0.33	2.4	2.4	3.0		
2020_3_Q1	4/2/20 13:30	4/3/20 15:00	9,680,794	0.17	0.48	0.21	0.05	0	0	0.28	0	0	0	0.13	0.17	0	0	0	0	0.02	0	0	0	0.10	1.2	1.2	1.5		
2020_4_Q1	4/3/20 15:00	4/6/20 0:00	15,145,577	0.28	1.1	0.42	0.10	0.02	0.04	0.42	0	0	0	0.18	0.39	0	0.05	0	0	0.03	0	0	0	0.06	2.4	2.5	3.1		
2020_5_Q1	4/6/20 0:00	4/9/20 6:30	16,574,785	0.33	1.6	0.55	0.13	0.05	0.08	0.51	0	0	0	0.22	0.51	0	0.08	0	0	0.06	0	0	0	NA	3.2	3.3	4.1		
2020_6_Q1	4/9/20 6:30	4/15/20 14:30	38,570,773	0.49	2.4	0.85	0.21	0.05	0.23	0.93	0	0	0	0.25	0.78	0	0.10	0	0	0.07	0	0	0	NA	5.1	5.2	6.3		
2020_7_Q1	4/15/20 14:30	4/19/20 2:00	55,746,498	0.31	1.6	0.61	0.14	0	0.38	0.95	0	0	0	0	0.54	0	0	0	0	0	0	0	0	NA	4.0	4.0	4.5		
2020_8_Q1	4/19/20 2:00	4/22/20 13:30	27,903,959	0.33	1.4	0.53	0.14	0	0.15	0.70	0	0	0	0	0.47	0	0	0	0	0	0	0	0	NA	3.3	3.3	3.8		
2020_9_Q1	4/22/20 13:30	4/26/20 0:49	28,652,713	0.32	1.5	0.54	0.14	0	0	0.60	0	0	0	0.21	0.66	0	0.08	0	0	0	0	0	0	NA	3.1	3.2	4.1		
2020_10_Q1	4/26/20 0:49	4/29/20 11:49	22,888,734	0.30	1.4	0.55	0.13	0	0	0.53	0	0	0	0.30	0.62	0	0.09	0	0	0.05	0	0	0	NA	2.9	2.9	3.9		
2020_11_Q1	4/29/20 11:49	4/30/20 9:49	7,256,900	0.09	0.30	0.14	0.03	0	0	0.17	0	0	0	0.12	0.16	0	0.03	0	0	0.03	0	0	0	NA	0.7	0.8	1.1		
2020_12_Q1	4/30/20 9:49	5/3/20 1:00	55,522,229	0.67	1.5	0.89	0.19	0	0	1.3	0	0	0	1.1	1.00	0	0.18	0	0	0.33	0	0	0	NA	4.6	4.8	7.2		
2020_13_Q1	5/3/20 1:00	5/6/20 12:00	72,975,232	0.45	1.3	0.72	0.15	0	0	1.1	0	0	0	0.80	0.88	0	0	0	0	0	0	0	0	NA	3.7	3.7	5.4		
2020_14_Q1	5/6/20 12:00	5/9/20 23:49	44,993,799	0.42	1.5	0.63	0.17	0	0	0.81	0	0	0	0.58	0.67	0	0.10	0	0	0.12	0	0	0	NA	3.6	3.7	5.0		
2020_1_Q2	5/9/20 23:49	5/13/20 9:49	15,999,330	0.21	1.1	0.43	0.11	0	0	0.35	0	0	0	0.19	0.54	0	0.05	0	0	0.08	0	0	0	NA	2.2	2.3	3.1		
2020_2_Q2	5/13/20 9:49	5/13/20 20:50	1,909,858	0.04	0.18	0.07	0.02	0	0	0.05	0	0	0	0.03	0.09	0	0.01	0	0	0.01	0	0	0	NA	0.4	0.4	0.5		
2020_3_Q2	5/13/20 20:50	5/14/20 20:50	3,563,845	0.02	0.08	0.03	0.01	0	0	0.02	0	0	0	0.01	0.04	0	0	0	0	0.01	0	0	0	NA	0.2	0.2	0.2		
2020_4_Q2	5/14/20 20:50	5/16/20 20:50	6,321,849	0.12	0.59	0.23	0.05	0	0	0.17	0	0	0	0.09	0.30	0	0.03	0	0	0.04	0	0	0	NA	1.2	1.2	1.6		
2020_5_Q2	5/16/20 20:50	5/20/20 8:49	11,021,058	0.28	1.3	0.50	0.11	0	0	0.35	0	0	0	0.17	0.60	0	0.04	0	0	0.09	0	0	0	NA	2.8	2.9	3.7		
2020_6_Q2	5/20/20 8:49	5/25/20 10:15	216,311,428	2.9	13	5.1	1.1	0	0	3.5	2.2	0	0	1.6	6.2	0	0.41	0	0	1.1	0	0	0	NA	28	29	38		
2020_7_Q2	5/25/20 10:15	5/29/20 9:10	171,453,975	0.56	0	0.75	0	0	0	0	0	0	0	0	0.29	0	0	0	0	0.17	0	0	0	NA	1.3	1.3	1.8		
2020_8_Q2	5/29/20 9:10	6/1/20 14:25	171,922,902	0.56	0.49	0.83	0	0	0	0	0	0	0	0.20	0.24	0	0	0	0	0	0	0	0	NA	1.9	1.9	2.3		
2020_9_Q2	6/1/20 14:25	6/5/20 11:06	172,656,875	0.57	1.3	0.83	0	0	0	2.33	0	0	0	0.20	0.71	0	0	0	0	0	0	0	0	NA	5.0	5.0	5.9		
2020_10_Q2	6/5/20 11:06	6/8/20 22:06	104,412,708	0.68	1.02	0.87	0	0	0	1.8	0	0	0	0.62	0.75	0	0	0	0	0	0	0	0	NA	4.7	4.7	6.1		
2020_11_Q2	6/8/20 22:06	6/12/20 9:06	58,107,953	0.58	0.99	0.76	0.20	0	0	1.5	0	0	0	0.49	0.53	0	0	0	0	0.22	0	0	0	NA	4.2	4.2	5.4		
2020_12_Q2	6/12/20 9:06	6/15/20 20:06	58,712,971	0.88	0.82	0.76	0.18	0	0	1.6	0	0	0	0.28	0.47	0	0	0	0	0	0	0	0	NA	4.4	4.4	5.2		
2020_13_Q2	6/15/20 20:06	6/19/20 7:06	88,876,954	1.4	0.98	1.6	0.34	0	0	3.2	0	0	0	0.45	0.64	0	0	0	0	0	0	0	0	NA	8.0	8.0	9.1		
2020_14_Q2	6/19/20 7:06	6/22/20 18:06	120,134,505	0.70	0.59	0.96	0	0	0	2.5	0	0	0	0.67	0.49	0	0	0	0	0	0	0	0	NA	4.8	4.8	5.9		
2020_15_Q2	6/22/20 18:06	6/26/20 5:06	70,462,140	0.70	2.1	0.92	0.20	0	0	1.4	0	0	0	0.78	0.85	0	0	0	0	0.25	0	0	0	NA	5.6	5.6	7.4		
2020_16_Q2	6/26/20 5:06	6/29/20 16:06	36,712,395	0.55	1.8	0.66	0.15	0	0	0.95	0	0	0	0.55	0.62	0	0.09	0	0	0.18	0	0	0	NA	4.3	4.4	5.7		
2020_1_Q3	6/29/20 16:06	7/2/20 8:29	16,684,371	0.32	0	0.42	0.09	0	0	0.45	0	0	0	0.07	0.20	0	0.05	0	0	0	0	0	0	NA	1.4	1.5	1.7		
2020_2_Q3	7/2/20 8:29	7/3/20 8:29	5,795,071	0.11	0.35	0.15	0.03	0	0	0.23	0	0	0	0.13	0.16	0	0.02	0	0	0.04	0	0	0	NA	0.9	0.9	1.2		
2020_3_Q3	7/3/20 8:29	7/6/20 8:29	15,030,129	0.29	1.2	0.43	0.09	0	0	0.52	0	0	0	0.34	0.47	0	0.06	0	0	0.09	0	0	0	NA	2.5	2.6	3.5		
2020_4_Q3	7/6/20 8:29	7/7/20 7:29	4,575,096	0.09	0.44	0.14	0.03	0	0	0.14	0	0	0	0.11	0.16	0	0.02	0	0	0.03	0	0	0	NA	0.9	0.9	1.2		
2020_5_Q3	7/7/20 7:29	7/9/20 12:01	12,348,326	0.21	1.1	0.35	0.07	0	0	0.35	0	0	0	0.22	0.41	0	0.05	0	0	0.06	0	0	0	NA	2.1	2.1	2.8		
2020_6_Q3	7/9/20 12:01	7/10/20 11:01	5,842,473	0.09	0.45	0.15	0.03	0	0	0.15	0	0	0	0.07	0.19	0	0.02	0	0	0.03	0	0	0	NA	0.9	0.9	1.2		
2020_7_Q3	7/10/20 11:01	7/13/20 0:01	14,776,297	0.23	1.0	0.39	0.09	0	0	0.39	0	0	0	0.25	0.47	0	0.05	0	0	0.08	0	0	0	NA	2.2	2.2	3.0		
2020_8_Q3	7/13/20 0:01	7/13/20 23:01	5,890,640	0.05	0.18	0.08	0.02	0	0	0.08	0	0	0	0.06	0.09	0	0.01	0	0	0.02	0	0	0	NA	0.4	0.4	0.6		
2020_9_Q3	7/13/20 23:01	7/16/20 0:01	12,180,378	0.22	0.83	0.36	0.08	0	0	0.34	0	0	0	0.21	0.34	0	0.04	0	0	0.06	0	0	0	NA	1.9	1.9	2.5		
2020_10_Q3	7/16/20 0:01	7/16/20 23:01	4,890,093	0.10	0.37	0.15	0.03	0	0	0.14	0	0	0	0.06	0.12	0	0.02	0	0	0.02	0	0	0	NA	0.8	0.8	1.0		
2020_11_Q3	7/16/20 23:01	7/20/20 0:01	12,608,784	0.29	1.1	0.38	0.10	0	0.02	0.18	0	0	0	0.08	0.15	0	0.04	0	0	0.02	0	0	0	NA	2.1	2.2	2.4		
2020_12_Q3	7/20/20 0:01	7/20/20 23:01	4,441,299	0.12	0.44	0.13	0.04	0	0.01	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0	NA	0.8	0.8	0.8		
2020_13_Q3	7/20/20 23:01	7/22/20 0:01	5,466,058	0.13	0.27	0.16	0.05	0	0.01	0.08	0	0	0	0.04	0.08	0	0.02	0	0	0	0	0	0	NA	0.7	0.8	0.9		

**TABLE B3**  
**CAPE FEAR RIVER PFAS MASS LOAD BY COMPOUND AND TIME INTERVAL - HISTORICAL RESULTS**  
 Chemours Fayetteville Works, North Carolina

Interval Details				Calculated Mass Load <sup>2</sup> (kg)																							Total Attachment C <sup>3</sup>	Total Table 3+ (17 Compounds) <sup>4</sup>	Total Table 3+ (20 Compounds)
Interval ID	Start Time <sup>1</sup>	End Time <sup>1</sup>	Total River Flow (m <sup>3</sup> )	HFPO-DA	PFMOAA	PFO2HxA	PFO3OA	PFO4DA	PFOSDA	PMPA	PEPA	PS Acid	Hydro-PS Acid	R-PSDA	Hydrolyzed PSDA	R-PSDCA	NVHOS	EVE Acid	Hydro-EVE Acid	R-EVE	PES	PFCEA B	PFCEA-G	PFHpA					
2020_14_Q3	7/22/20 0:01	7/22/20 23:01	4,514,442	0.10	0	0.14	0.04	0	0.01	0.13	0	0	0	0.06	0.13	0	0.02	0	0	0	0	0	0	0	0	0.4	0.5	0.7	
2020_15_Q3	7/22/20 23:01	7/23/20 23:01	4,066,412	0.08	0.27	0.12	0.03	0	0.01	0.10	0	0	0	0.07	0.12	0	0.02	0	0	0	0	0	0	0	0	0.6	0.6	0.8	
2020_16_Q3	7/23/20 23:01	7/27/20 0:01	20,315,242	0.35	1.1	0.49	0.11	0	0.02	0.24	0	0	0	0.29	0.44	0	0.08	0	0	0	0	0	0	0	0	2.3	2.4	3.1	
2020_17_Q3	7/27/20 0:01	7/27/20 11:01	3,081,921	0.04	0.13	0.06	0.01	0	0	0	0	0	0	0.04	0.04	0	0.01	0	0	0	0	0	0	0	0	0.2	0.3	0.3	
2020_18_Q3	7/27/20 11:01	7/28/20 16:20	8,598,694	0.12	0.34	0.16	0.04	0	0	0	0	0	0	0.05	0.06	0	0.03	0	0	0	0	0	0	0	0	0.7	0.7	0.8	
2020_19_Q3	7/28/20 16:20	7/29/20 0:01	2,165,219	0.03	0.09	0.04	0.01	0	0	0	0	0	0	0	0.01	0	0.01	0	0	0	0	0	0	0	0.01	0.2	0.2	0.2	
2020_20_Q3	7/29/20 0:01	7/29/20 23:01	6,721,966	0.09	0.36	0.14	0.03	0	0	0	0	0	0	0	0.13	0	0.02	0	0	0	0	0	0	0	0.02	0.6	0.7	0.8	
2020_21_Q3	7/29/20 23:01	7/30/20 23:01	9,491,439	0.10	0.39	0.17	0.05	0	0	0	0	0	0	0	0.17	0	0.03	0	0	0	0	0	0	0	0.03	0.7	0.8	0.9	
2020_22_Q3	7/30/20 23:01	8/3/20 14:50	30,789,134	0.40	1.4	0.63	0.16	0	0	0.32	0	0	0	0	0.60	0	0.09	0	0	0	0	0	0	0	0.12	3.0	3.1	3.7	
2020_23_Q3	8/3/20 14:50	8/4/20 12:30	6,376,388	0.19	0.30	0.19	0.05	0	0	0.21	0	0	0	0	0.17	0	0.02	0	0	0	0	0	0	0	0.03	1.0	1.0	1.2	
2020_24_Q3	8/4/20 12:30	8/5/20 23:55	30,928,538	0.75	0.85	0.70	0.15	0	0	0.70	0	0	0	0	0.53	0	0.04	0	0	0	0	0	0	0	0.12	3.5	3.6	4.1	
2020_25_Q3	8/5/20 23:55	8/6/20 22:55	20,578,759	0.10	0.17	0.17	0	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0	0	0	0.05	0.4	0.4	0.5	
2020_26_Q3	8/6/20 22:55	8/9/20 22:38	58,359,492	0.37	0.24	0.82	0.18	0	0	0	0	0	0	0	0.07	0	0	0	0	0	0	0	0	0	0.21	1.7	1.7	1.7	
2020_27_Q3	8/9/20 22:38	8/10/20 21:56	13,933,248	0.11	0	0.28	0.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	0.5	0.5	0.5	
2020_28_Q3	8/10/20 21:56	8/12/20 0:01	20,465,095	0.14	0.28	0.32	0.08	0	0	0	0	0	0	0.08	0.15	0	0	0	0	0	0.04	0	0	0	0.09	0.8	0.8	1.1	
2020_29_Q3	8/12/20 0:01	8/12/20 23:01	18,224,184	0.11	0.49	0.20	0.04	0	0	0	0	0	0	0.13	0.27	0	0	0	0	0	0.07	0	0	0	0.07	0.8	0.8	1.3	
2020_30_Q3	8/12/20 23:01	8/17/20 0:01	68,965,142	0.32	1.4	0.59	0.07	0	0	0	0	0	0	0.39	0.74	0	0	0	0	0	0.13	0	0	0	0.22	2.4	2.4	3.7	
2020_31_Q3	8/17/20 0:01	8/17/20 23:01	29,873,707	0.10	0.45	0.19	0	0	0	0	0	0	0	0.11	0.19	0	0	0	0	0	0	0	0	0	0.07	0.7	0.7	1.0	
2020_32_Q3	8/17/20 23:01	8/20/20 0:01	60,110,322	0.29	1.2	0.55	0.07	0	0	0	0	0	0	0.30	0.52	0	0	0	0	0	0	0	0	0	0.16	2.1	2.1	3.0	
2020_33_Q3	8/20/20 0:01	8/20/20 23:01	20,274,466	0.13	0.53	0.24	0.05	0	0	0	0	0	0	0.12	0.22	0	0	0	0	0	0	0	0	0	0.06	0.9	0.9	1.3	
2020_34_Q3	8/20/20 23:01	8/25/20 0:01	82,304,076	0.55	2.4	1.1	0.22	0	0	0	0	0	0	0.25	0.45	0	0	0	0	0	0	0	0	0	0.26	4.3	4.3	5.0	
2020_35_Q3	8/25/20 0:01	8/25/20 23:01	14,273,984	0.10	0.47	0.21	0.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	0.8	0.8	0.8	
2020_36_Q3	8/25/20 23:01	8/27/20 11:18	13,059,107	0.12	0.63	0.25	0.06	0	0	0.15	0	0	0	0.03	0.15	0	0	0	0	0	0.02	0	0	0	0.05	1.2	1.2	1.4	
2020_37_Q3	8/27/20 11:18	8/31/20 13:30	21,797,969	0.33	1.8	0.64	0.14	0	0	0.59	0	0	0	0.17	0.66	0	0.03	0	0	0	0.08	0	0	0	0.10	3.6	3.6	4.5	
2020_38_Q3	8/31/20 13:30	9/3/20 0:01	30,093,899	0.39	1.8	0.71	0.17	0	0	0.47	0	0	0	0.22	0.70	0	0.04	0	0	0	0.07	0	0	0	0.12	3.6	3.7	4.7	
2020_39_Q3	9/3/20 0:01	9/3/20 23:01	13,891,707	0.11	0.29	0.17	0.05	0	0	0	0	0	0	0.05	0.12	0	0	0	0	0	0	0	0	0	0.03	0.6	0.6	0.8	
2020_40_Q3	9/3/20 23:01	9/7/20 0:01	30,452,220	0.30	0.72	0.44	0.12	0	0	0	0	0	0	0.05	0.36	0	0	0	0	0	0	0	0	0	0.07	1.6	1.6	2.0	
2020_41_Q3	9/7/20 0:01	9/7/20 23:01	7,001,539	0.08	0.18	0.12	0.03	0	0	0	0	0	0	0	0.11	0	0	0	0	0	0	0	0	0	0.02	0.4	0.4	0.5	
2020_42_Q3	9/7/20 23:01	9/10/20 0:01	11,457,874	0.22	0.46	0.27	0.07	0	0	0.17	0	0	0	0.08	0.32	0	0.02	0	0	0	0.04	0	0	0	0.04	1.2	1.2	1.7	
2020_43_Q3	9/10/20 0:01	9/10/20 23:01	3,946,632	0.10	0.22	0.12	0.03	0	0	0.12	0	0	0	0.06	0.16	0	0.01	0	0	0	0.02	0	0	0	0.02	0.6	0.6	0.9	
2020_44_Q3	9/10/20 23:01	9/14/20 0:01	15,795,194	0.35	0.72	0.44	0.10	0	0	0.24	0	0	0	0.14	0.51	0	0.06	0	0	0	0.05	0	0	0	0.08	1.9	1.9	2.7	
2020_45_Q3	9/14/20 0:01	9/14/20 23:01	4,603,385	0.08	0.17	0.12	0.02	0	0	0	0	0	0	0.02	0.11	0	0.02	0	0	0	0	0	0	0	0.02	0.4	0.4	0.5	
2020_46_Q3	9/14/20 23:01	9/17/20 0:01	8,296,694	0.18	0.15	0.24	0.05	0	0	0.14	0	0	0	0.06	0.22	0	0.04	0	0	0	0.01	0	0	0	0.04	0.8	0.8	1.1	
2020_47_Q3	9/17/20 0:01	9/17/20 23:01	3,677,254	0.09	0	0.12	0.03	0	0	0.12	0	0	0	0.04	0.11	0	0.02	0	0	0	0.01	0	0	0	0.02	0.4	0.4	0.6	
2020_48_Q3	9/17/20 23:01	9/18/20 10:01	3,161,179	0.13	0	0.12	0.03	0	0	0.15	0	0	0	0.16	0.15	0	0.02	0	0	0	0.02	0	0	0	0.01	0.5	0.5	0.9	
2020_49_Q3	9/18/20 10:01	9/21/20 0:01	28,670,297	0.71	0.11	0.68	0.13	0	0	1.1	0	0	0	0.75	0.81	0	0.08	0	0	0	0.11	0	0	0	0.12	3.2	3.3	5.0	
2020_50_Q3	9/21/20 0:01	9/21/20 23:01	15,482,746	0.11	0.12	0.13	0	0	0	0.53	0	0	0	0	0.15	0	0	0	0	0	0	0	0	0	0.06	0.9	0.9	1.0	
2020_51_Q3	9/21/20 23:01	9/24/20 0:01	26,249,972	0.24	0.29	0.24	0.04	0	0	0.85	0	0	0	0	0.27	0	0	0	0	0	0	0	0	0	0.13	1.7	1.7	1.9	
2020_52_Q3	9/24/20 0:01	9/24/20 23:01	10,370,932	0.11	0.15	0.10	0.03	0	0	0.32	0	0	0	0	0.11	0	0	0	0	0	0	0	0	0	0.06	0.7	0.7	0.8	
2020_53_Q3	9/24/20 23:01	9/25/20 23:01	10,821,255	0.12	0.13	0.13	0.03	0	0	0.35	0	0	0	0	0.15	0	0	0	0	0	0	0	0	0	0.06	0.8	0.8	0.9	
2020_54_Q3	9/25/20 23:01	9/26/20 23:01	19,919,967	0.24	0.18	0.26	0.05	0	0	0.68	0	0	0	0	0.26	0	0	0	0	0	0	0	0	0	0.10	1.4	1.4	1.7	
2020_55_Q3	9/26/20 23:01	9/28/20 0:01	28,474,571	0.26	0.21	0.27	0.04	0	0	0.94	0	0	0	0	0.29	0	0	0	0	0	0	0	0	0	0.12	1.7	1.7	2.0	
2020_56_Q3	9/28/20 0:01	9/28/20 23:01	22,732,255	0.14	0.14	0.14	0	0	0	0.73	0	0	0	0	0.16	0	0	0	0	0	0	0	0	0	0.08	1.2	1.2	1.3	
2020_57_Q3	9/28/20 23:01	9/29/20 23:01	22,444,018	0.12	0.09	0.15	0	0	0	0	0	0	0	0	0.12	0	0	0	0	0	0	0	0	0	0.09	0.4	0.4	0.5	
2020_58_Q3	9/29/20 23:01	10/1/20 0:01	28,869,846	0.32	0.66	0.35	0.07	0	0	0.72	0	0	0	0.21	0.35	0	0	0	0	0	0.08	0	0	0	0.14	2.1	2.1	2.8	
2020_1_Q4	10/1/20 0:01	10/1/20 17:01	22,630,824	0.12	0.07	0.15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12	0.33	0.33	0.33	
2020_2_Q4	10/1/20 17:01	10/6/20 15:30	94,327,975	0.63	0.32	0.78	0.10	0	0	0	0	0	0	0	0.24	0	0	0	0	0	0	0	0	0	0.51	1.8	1.8	2.1	

**TABLE B3**  
**CAPE FEAR RIVER PFAS MASS LOAD BY COMPOUND AND TIME INTERVAL - HISTORICAL RESULTS**  
**Chemours Fayetteville Works, North Carolina**

Interval Details				Calculated Mass Load <sup>2</sup> (kg)																								Total Attachment C <sup>3</sup>	Total Table 3+ (17 Compounds) <sup>4</sup>	Total Table 3+ (20 Compounds)
Interval ID	Start Time <sup>1</sup>	End Time <sup>1</sup>	Total River Flow (m <sup>3</sup> )	HFPO-DA	PFMOAA	PFO2HxA	PFO3OA	PFO4DA	PFOSDA	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	PFHpA						
2020_3_Q4	10/6/20 15:30	10/6/20 23:30	3,102,054	0.03	0.01	0.03	0.01	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0	0	0.02	0.07	0.07	0.09			
2020_4_Q4	10/6/20 23:30	10/7/20 17:30	5,666,371	0.06	0.03	0.07	0.02	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0	0	0.03	0.17	0.17	0.21			
2020_5_Q4	10/7/20 17:30	10/8/20 16:30	6,244,374	0.08	0.05	0.09	0.02	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0	0	0.03	0.24	0.24	0.29			
2020_6_Q4	10/8/20 16:30	10/12/20 0:01	18,702,796	0.34	0.57	0.42	0.16	0	0.03	0.31	0	0	0	0.19	0.27	0	0.03	0	0	0.04	0	0	0	0.09	1.9	2.0	2.5			
2020_7_Q4	10/12/20 0:01	10/12/20 23:01	9,731,254	0.22	0.53	0.29	0.13	0	0.03	0.32	0	0	0	0.19	0.20	0	0.03	0	0	0.05	0	0	0	0.04	1.6	1.7	2.1			
2020_8_Q4	10/12/20 23:01	10/15/20 0:01	47,688,854	0.66	1.6	0.88	0.31	0	0.08	0.79	0	0	0	0.56	0.62	0	0.07	0	0	0.11	0	0	0	0.19	4.6	4.7	6.0			
2020_9_Q4	10/15/20 0:01	10/15/20 23:01	20,096,070	0.09	0.30	0.14	0	0	0	0	0	0	0	0.07	0.10	0	0	0	0	0	0	0	0	0.08	0.53	0.53	0.70			
2020_10_Q4	10/15/20 23:01	10/19/20 0:01	54,708,233	0.29	0.90	0.40	0	0	0	0	0	0	0	0.21	0.31	0	0	0	0	0	0	0	0	0.25	1.6	1.6	2.1			
2020_11_Q4	10/19/20 0:01	10/19/20 23:01	17,102,073	0.10	0.31	0.13	0	0	0	0	0	0	0	0.07	0.11	0	0	0	0	0	0	0	0	0.09	0.54	0.54	0.72			
2020_12_Q4	10/19/20 23:01	10/22/20 0:01	30,272,040	0.20	0.38	0.24	0	0	0	0.42	0	0	0	0.06	0.09	0	0	0	0	0	0	0	0	0.16	1.2	1.2	1.4			
2020_13_Q4	10/22/20 0:01	10/22/20 23:01	11,426,018	0.08	0.08	0.09	0	0	0	0.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	0.58	0.58	0.58			
2020_14_Q4	10/22/20 23:01	10/30/20 0:01	54,393,236	0.49	0.98	0.58	0.08	0	0	0.76	0	0	0	0.30	0.23	0	0.10	0	0	0.08	0	0	0	0.26	2.9	3.0	3.6			
2020_15_Q4	10/30/20 0:01	10/31/20 0:01	9,159,622	0.10	0.27	0.12	0.03	0	0	0	0	0	0	0.10	0.08	0	0.03	0	0	0.03	0	0	0	0.04	0.51	0.55	0.75			
2020_16_Q4	10/31/20 0:01	10/31/20 23:01	9,568,914	0.08	0.26	0.11	0.02	0	0	0.20	0	0	0	0.09	0.06	0	0.04	0	0	0.02	0	0	0	0.05	0.67	0.71	0.88			
2020_17_Q4	10/31/20 23:01	11/2/20 0:01	13,443,423	0.11	0.28	0.13	0.02	0	0	0.28	0	0	0	0.06	0.07	0	0.05	0	0	0.01	0	0	0	0.07	0.81	0.86	1.0			
2020_18_Q4	11/2/20 0:01	11/2/20 23:01	14,928,953	0.10	0.22	0.13	0	0	0	0.30	0	0	0	0	0.06	0	0.05	0	0	0	0	0	0	0.09	0.75	0.80	0.86			
2020_19_Q4	11/2/20 23:01	11/5/20 0:01	28,761,279	0.19	0.53	0.26	0.03	0	0	0.66	0	0	0	0	0.13	0	0.05	0	0	0	0	0	0	0.16	1.7	1.7	1.8			
2020_20_Q4	11/5/20 0:01	11/5/20 23:01	9,736,096	0.06	0.21	0.09	0.02	0	0	0.25	0	0	0	0	0.05	0	0	0	0	0	0	0	0	0.05	0.64	0.64	0.69			
2020_21_Q4	11/5/20 23:01	11/9/20 0:01	19,869,252	0.18	0.57	0.26	0.06	0	0	0.48	0	0	0	0.16	0.19	0	0.03	0	0	0.03	0	0	0	0.09	1.5	1.6	2.0			
2020_22_Q4	11/9/20 0:01	11/9/20 23:01	5,385,015	0.06	0.19	0.09	0.02	0	0	0.12	0	0	0	0.09	0.08	0	0.02	0	0	0.02	0	0	0	0.02	0.48	0.50	0.68			
2020_23_Q4	11/9/20 23:01	11/11/20 0:01	5,694,659	0.07	0.21	0.10	0.02	0	0	0.06	0	0	0	0.09	0.08	0	0.02	0	0	0.02	0	0	0	0.02	0.47	0.48	0.68			
2020_24_Q4	11/11/20 0:01	11/12/20 0:01	5,548,629	0.08	0.21	0.10	0.02	0	0	0	0	0	0	0.09	0.08	0	0.02	0	0	0.02	0	0	0	0.02	0.41	0.43	0.62			
2020_25_Q4	11/12/20 0:01	11/12/20 19:01	15,004,644	0.69	0.72	0.68	0.17	0	0.08	0.78	0	0	0	0.59	0.32	0	0.05	0	0	0.17	0	0	0	0.05	3.5	3.6	4.7			
2020_26_Q4	11/12/20 19:01	11/13/20 14:10	43,872,706	1.1	1.1	1.1	0.24	0	0.12	1.1	0	0	0	0.86	0.46	0	0.07	0	0	0.24	0	0	0	0.15	5.3	5.4	7.0			
2020_27_Q4	11/13/20 14:10	11/18/20 12:25	340,079,098	1.5	1.4	1.9	0	0	0	0	0	0	0	1.1	0.43	0	0	0	0	0	0	0	0	0.97	4.7	4.7	6.2			
2020_28_Q4	11/18/20 12:25	11/20/20 11:06	68,070,868	0.41	0.62	0.52	0	0	0	0	0	0	0	0.45	0.25	0	0	0	0	0	0	0	0	0.20	1.5	1.5	2.2			
2020_29_Q4	11/20/20 11:06	11/24/20 0:01	114,667,938	0.76	1.6	0.78	0	0	0	0	0	0	0	0.60	0.48	0	0	0	0	0	0	0	0	0.45	3.1	3.1	4.2			
2020_30_Q4	11/24/20 0:01	11/24/20 23:01	26,346,560	0.19	0.47	0.16	0	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0	0	0	0.12	0.82	0.82	1.0			
2020_31_Q4	11/24/20 23:01	11/26/20 0:01	24,616,628	0.18	0.48	0.17	0	0	0	0	0	0	0	0.09	0.10	0	0	0	0	0	0	0	0	0.13	0.83	0.83	1.0			
2020_32_Q4	11/26/20 0:01	11/26/20 23:01	18,652,845	0.15	0.39	0.14	0	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0	0	0	0.11	0.68	0.68	0.83			
2020_33_Q4	11/26/20 23:01	11/30/20 0:01	42,065,553	0.54	1.1	0.45	0.07	0	0	0.57	0	0	0	0.26	0.29	0	0	0	0	0.07	0	0	0	0.22	2.7	2.7	3.4			
2020_34_Q4	11/30/20 0:01	11/30/20 23:01	14,786,746	0.27	0.47	0.21	0.05	0	0	0.40	0	0	0	0.12	0.14	0	0	0	0	0.05	0	0	0	0.07	1.4	1.4	1.7			
2020_35_Q4	11/30/20 23:01	12/3/20 0:01	61,797,695	0.69	1.3	0.57	0.10	0	0	1.7	0	0	0	0.38	0.39	0	0	0	0	0.10	0	0	0	0.27	4.3	4.3	5.2			
2020_36_Q4	12/3/20 0:01	12/3/20 23:01	29,417,522	0.13	0.28	0.13	0	0	0	0.82	0	0	0	0.11	0.09	0	0	0	0	0	0	0	0	0.12	1.4	1.4	1.6			
2020_37_Q4	12/3/20 23:01	12/7/20 0:01	78,024,607	0.39	0.88	0.41	0	0	0	1.1	0	0	0	0.40	0.35	0	0	0	0	0.11	0	0	0	0.32	2.8	2.8	3.6			
2020_38_Q4	12/7/20 0:01	12/7/20 23:01	24,457,855	0.13	0.32	0.15	0	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0.07	0	0	0	0.11	0.60	0.60	1.0			
2020_39_Q4	12/7/20 23:01	12/10/20 0:01	50,972,618	0.29	0.79	0.30	0	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0.07	0	0	0	0.20	1.4	1.4	1.8			
2020_40_Q4	12/10/20 0:01	12/10/20 23:01	20,430,180	0.12	0.37	0.12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08	0.60	0.60	0.60			
2020_41_Q4	12/10/20 23:01	12/13/20 0:01	31,261,119	0.23	0.67	0.23	0	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0.04	0	0	0	0.14	1.1	1.1	1.4			
2020_42_Q4	12/13/20 0:01	12/13/20 23:01	11,706,864	0.11	0.29	0.11	0	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0.03	0	0	0	0.06	0.51	0.51	0.70			
2020_43_Q4	12/13/20 23:01	12/14/20 0:59	982,198	0.01	0.03	0.01	0.00	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0.00	0	0	0	0.00	0.05	0.05	0.06			
2020_44_Q4	12/14/20 0:59	12/14/20 11:59	5,310,853	0.05	0.14	0.05	0.01	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0.01	0	0	0	0.02	0.26	0.26	0.35			

**TABLE B3  
CAPE FEAR RIVER PFAS MASS LOAD BY COMPOUND AND TIME INTERVAL - HISTORICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Interval Details				Calculated Mass Load <sup>2</sup> (kg)																								Total Attachment C <sup>3</sup>	Total Table 3+ (17 Compounds) <sup>4</sup>	Total Table 3+ (20 Compounds)
Interval ID	Start Time <sup>1</sup>	End Time <sup>1</sup>	Total River Flow (m <sup>3</sup> )	HFPO-DA	PFMOAA	PFO2HxA	PFO3OA	PFO4DA	PFOSDA	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	PFHpA						
2020_45_Q4	12/14/20 11:59	12/15/20 16:11	15,379,021	0.16	0.36	0.15	0.04	0	0	0.21	0	0	0	0.06	0.13	0	0	0	0	0.02	0	0	0	0.06	0.91	0.94	1.1			
2020_46_Q4	12/15/20 16:11	12/17/20 12:29	47,125,887	0.33	0.63	0.30	0.06	0	0	0.64	0	0	0	0.10	0.27	0	0	0	0	0	0	0	0	0.21	2.0	2.1	2.4			
2020_47_Q4	12/17/20 12:29	12/21/20 13:52	149,396,568	0.53	1.3	0.51	0	0	0	0	0	0	0	0.57	0.40	0	0	0	0	0	0	0	0	0.63	2.3	2.3	3.3			
2020_48_Q4	12/21/20 13:52	12/23/20 9:30	65,902,080	0.24	0.33	0.24	0	0	0	0	0	0	0	0.11	0.21	0	0	0	0	0	0	0	0	0.24	0.81	0.81	1.1			
2020_49_Q4	12/23/20 9:30	12/24/20 19:20	43,431,813	0.34	0.37	0.27	0	0	0	0	0	0	0	0.28	0.31	0	0	0	0	0	0	0	0	0.16	1.0	1.0	1.6			
2020_50_Q4	12/24/20 19:20	12/28/20 15:00	183,564,524	1.4	1.6	1.1	0	0	0	0	0	0	0	1.2	1.2	0	0	0	0	0	0	0	0	0.66	4.0	4.0	6.4			
2020_51_Q4	12/28/20 15:00	12/30/20 10:56	73,223,967	0.27	0.44	0.27	0	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0.10	0	0	0	0.25	1.0	1.0	1.5			
2021_1_Q1	12/30/20 10:56	1/6/21 12:10	334,627,822	1.2	2.5	1.4	0	0	0	0	0	0	0	0.94	0.72	0	0	0	0	0.47	0	0	0	0.59	5.1	5.1	7.2			
2021_2_Q1	1/6/21 12:10	1/7/21 11:00	45,269,293	0.14	0.07	0.16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.37	0.37	0.37			
2021_3_Q1	1/7/21 11:00	1/11/21 10:30	161,851,166	0.73	1.1	0.76	0	0	0	0	0	0	0	0.32	0.23	0	0	0	0	0	0	0	0	0	2.5	2.5	3.1			
2021_4_Q1	1/11/21 10:30	1/14/21 12:40	80,160,009	0.60	1.4	0.63	0.08	0	0	0	0	0	0	0.34	0.28	0	0	0	0	0	0	0	0	0	2.7	2.7	3.3			
2021_5_Q1	1/14/21 12:40	1/21/21 0:01	101,278,798	0.95	2.1	0.93	0.10	0	0	0.71	0	0	0	0.52	0.58	0	0	0	0	0	0	0	0	0.12	4.8	4.8	5.9			
2021_6_Q1	1/21/21 0:01	1/22/21 0:01	12,924,035	0.12	0.27	0.11	0	0	0	0.18	0	0	0	0.07	0.09	0	0	0	0	0	0	0	0	0.03	0.68	0.68	0.85			
2021_7_Q1	1/22/21 0:01	1/22/21 23:01	11,886,280	0.12	0.27	0.10	0	0	0	0.17	0	0	0	0.08	0.09	0	0	0	0	0	0	0	0	0.03	0.66	0.66	0.83			
2021_8_Q1	1/22/21 23:01	1/26/21 15:00	38,714,509	0.52	1.14	0.41	0.06	0	0	0.66	0	0	0	0.51	0.34	0	0.06	0	0	0.08	0	0	0	0.09	2.8	2.9	3.8			
2021_9_Q1	1/26/21 15:00	1/26/21 16:10	630,758	0.01	0.02	0.01	0.00	0	0	0.01	0	0	0	0.01	0.01	0	0.00	0	0	0.00	0	0	0	0.00	0.06	0.06	0.08			
2021_10_Q1	1/26/21 16:10	1/27/21 0:01	4,979,036	0.05	0.11	0.06	0.01	0	0	0.09	0	0	0	0.05	0.04	0	0	0	0	0.02	0	0	0	0.02	0.33	0.33	0.44			
2021_11_Q1	1/27/21 0:01	1/27/21 15:10	12,789,729	0.13	0.29	0.14	0.01	0	0	0.23	0	0	0	0.10	0.09	0	0	0	0	0.04	0	0	0	0.03	0.80	0.80	1.0			
2021_12_Q1	1/27/21 15:10	1/28/21 0:01	9,642,566	0.09	0.22	0.09	0	0	0	0.16	0	0	0	0.07	0.06	0	0	0	0	0.03	0	0	0	0.02	0.56	0.56	0.71			
2021_13_Q1	1/28/21 0:01	1/28/21 23:01	29,998,584	0.22	0.48	0.21	0	0	0	0.42	0	0	0	0.18	0.14	0	0	0	0	0	0	0	0	0.07	1.3	1.3	1.7			
2021_14_Q1	1/28/21 23:01	2/1/21 10:05	129,039,020	0.83	1.6	0.76	0	0	0	1.7	0	0	0	0.38	0.49	0	0	0	0	0	0	0	0	0.35	4.9	4.9	5.8			
2021_15_Q1	2/1/21 10:05	2/4/21 16:35	157,579,853	0.79	0.68	0.74	0	0	0	1.8	0	0	0	0	0.57	0	0	0	0	0	0	0	0	0.43	4.0	4.0	4.6			
2021_16_Q1	2/4/21 16:35	2/8/21 16:00	159,603,375	0.36	0	0.37	0	0	0	0.80	0	0	0	0	0.35	0	0	0	0	0	0	0	0	0.51	1.5	1.5	1.9			
2021_17_Q1	2/8/21 16:00	2/11/21 0:01	83,254,162	0.42	1.0	0.34	0	0	0	0.83	0	0	0	0.21	0.25	0	0	0	0	0	0	0	0	0.31	2.6	2.6	3.1			
2021_18_Q1	2/11/21 0:01	2/12/21 14:01	32,965,312	0.33	0.79	0.27	0	0	0	0.66	0	0	0	0.17	0.20	0	0	0	0	0	0	0	0	0.12	2.1	2.1	2.4			
2021_19_Q1	2/12/21 14:01	2/16/21 12:00	180,462,725	1.3	2.2	1.0	0	0	0	3.2	0	0	0	0.46	0.54	0	0	0	0	0	0	0	0	0.55	7.6	7.6	8.6			
2021_20_Q1	2/16/21 12:00	2/19/21 13:35	186,467,284	1.2	0.83	0.71	0	0	0	2.9	0	0	0	0.45	0.28	0	0	0	0	0	0	0	0	0.24	5.6	5.6	6.3			
2021_21_Q1	2/19/21 13:35	2/22/21 9:35	164,917,031	1.2	1.3	0.94	0.18	0	0	2.3	0	0	0	0.98	0.51	0	0	0	0	0.17	0	0	0	0	6.1	6.1	7.7			
2021_22_Q1	2/22/21 9:35	2/24/21 15:15	93,018,293	0.5	0.70	0.56	0.10	0	0	0.95	0	0	0	0.55	0.26	0	0	0	0	0.10	0	0	0	0	2.9	2.9	3.8			
2021_23_Q1	2/24/21 15:15	2/25/21 12:20	35,590,029	0.17	0.29	0.19	0	0	0	0.36	0	0	0	0.14	0.08	0	0	0	0	0	0	0	0	0.06	1.0	1.0	1.2			
2021_24_Q1	2/25/21 12:20	3/5/21 0:01	331,411,594	1.7	3.2	1.8	0	0	0	2.0	0	0	0	1.7	1.2	0	0	0	0	0	0	0	1.1	8.6	8.6	11				
2021_25_Q1	3/5/21 0:01	3/6/21 0:01	43,768,217	0.20	0.53	0.23	0	0	0	0	0	0	0	0.32	0.21	0	0	0	0	0	0	0	0	0.15	0.95	0.95	1.5			
2021_26_Q1	3/6/21 0:01	3/6/21 23:01	41,150,891	1.2	0.45	0.19	0	0	0	0	0	0	0	0.26	0.16	0	0	0	0	0	0	0	0	0.16	1.8	1.8	2.2			
2021_27_Q1	3/6/21 23:01	3/8/21 0:01	42,955,240	0.73	0.49	0.20	0	0	0	0	0	0	0	0.22	0.13	0	0	0	0	0	0	0	0	0.17	1.4	1.4	1.8			
2021_28_Q1	3/8/21 0:01	3/8/21 23:01	38,107,963	0.22	0.46	0.17	0	0	0	0	0	0	0	0.14	0.09	0	0	0	0	0	0	0	0	0.15	0.85	0.85	1.1			
2021_29_Q1	3/8/21 23:01	3/11/21 0:01	74,531,356	0.51	1.2	0.44	0	0	0	0.52	0	0	0	0.31	0.24	0	0	0	0	0	0	0	0	0.28	2.7	2.7	3.2			
2021_30_Q1	3/11/21 0:01	3/11/21 23:01	25,460,186	0.20	0.51	0.18	0	0	0	0.36	0	0	0	0.11	0.11	0	0	0	0	0	0	0	0	0.09	1.3	1.3	1.5			
2021_31_Q1	3/11/21 23:01	3/15/21 0:01	61,556,350	0.49	1.2	0.44	0	0	0	0.86	0	0	0	0.28	0.26	0	0	0	0	0	0	0	0	0.22	3.0	3.0	3.6			
2021_32_Q1	3/15/21 0:01	3/15/21 23:01	21,039,530	0.16	0.40	0.14	0	0	0	0.25	0	0	0	0.09	0.08	0	0	0	0	0	0	0	0	0.09	0.95	0.95	1.1			
2021_33_Q1	3/15/21 23:01	3/18/21 0:01	46,167,900	0.29	0.74	0.27	0	0	0	0.53	0	0	0	0.18	0.15	0	0	0	0	0	0	0	0	0.19	1.8	1.8	2.2			
2021_34_Q1	3/18/21 0:01	3/18/21 23:01	30,138,753	0.15	0.39	0.16	0	0	0	0.33	0	0	0	0.11	0.09	0	0	0	0	0	0	0	0	0.11	1.0	1.0	1.2			
2021_35_Q1	3/18/21 23:01	3/24/21 0:01	118,868,402	0.83	2.0	1.1	0.13	0	0	1.7	0	0	0	1.5	1.0	0	0.55	0	0	0.32	0	0	0	0.42	5.9	6.5	9.3			
2021_36_Q1	3/24/21 0:01	3/24/21 23:01	19,076,663	0.06	0.15	0.09	0	0	0	0	0	0	0	0	0.08	0	0	0	0	0	0	0	0	0.04	0.31	0.31	0.38			
2021_37_Q1	3/24/21 23:01	3/25/21 23:01	19,613,126	0.06	0.11	0.05	0	0	0	0	0	0	0	0.14	0.04	0	0	0	0	0	0	0	0	0.07	0.21	0.21	0.39			



**TABLE B3  
CAPE FEAR RIVER PFAS MASS LOAD BY COMPOUND AND TIME INTERVAL - HISTORICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Interval Details				Calculated Mass Load <sup>2</sup> (kg)																								Total Attachment C <sup>3</sup>	Total Table 3+ (17 Compounds) <sup>4</sup>	Total Table 3+ (20 Compounds)
Interval ID	Start Time <sup>1</sup>	End Time <sup>1</sup>	Total River Flow (m <sup>3</sup> )	HFPO-DA	PFMOAA	PFO2HxA	PFO3OA	PFO4DA	PFOSDA	PMPA	PEPA	PS Acid	Hydro-PS Acid	R-PSDA	Hydrolyzed PSDA	R-PSDCA	NVHOS	EVE Acid	Hydro-EVE Acid	R-EVE	PES	PFCEA B	PFCEA-G	PFHpA						
2021_38_Q1	3/25/21 23:01	3/29/21 0:01	63,362,994	0.09	0.17	0.07	0	0	0	0	0	0	0	0.23	0.07	0	0	0	0	0	0	0	0	0	0.12	0.34	0.34	0.64		
2021_39_Q1	3/29/21 0:01	3/29/21 12:50	17,967,039	0.06	0.14	0.08	0	0	0	0	0	0	0	0	0.07	0	0	0	0	0	0	0	0	0	0.04	0.29	0.29	0.36		
2021_40_Q1	3/29/21 12:50	3/29/21 23:01	15,484,784	0.05	0.10	0.05	0	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0	0	0	0	0.05	0.20	0.20	0.31		
2021_41_Q1	3/29/21 23:01	3/30/21 8:50	15,161,123	0.04	0.08	0.03	0	0	0	0	0	0	0	0.11	0.03	0	0	0	0	0	0	0	0	0	0.06	0.16	0.16	0.30		
2021_42_Q1	3/30/21 8:50	3/31/21 0:01	25,026,429	0.09	0.15	0.07	0	0	0	0	0	0	0	0.10	0.07	0	0	0	0	0	0	0	0	0	0.08	0.31	0.31	0.47		
2021_43_Q1	3/31/21 0:01	3/31/21 23:01	39,405,157	0.17	0.27	0.15	0	0	0	0	0	0	0	0	0.12	0	0	0	0	0	0	0	0	0	0.11	0.59	0.59	0.71		
2021_1_Q2	3/31/21 23:01	4/5/21 0:01	129,765,602	2.3	6.1	2.3	0.42	0	0	2.0	0	0	0	1.0	3.1	0	0.13	0	0	0.42	0	0	0	0.38	13	13	18			
2021_2_Q2	4/5/21 0:01	4/5/21 23:01	11,113,824	0.34	0.98	0.34	0.07	0	0	0.34	0	0	0	0.18	0.50	0	0.02	0	0	0.07	0	0	0	0.04	2.1	2.1	2.9			
2021_3_Q2	4/5/21 23:01	4/7/21 0:01	10,735,879	0.24	0.62	0.25	0.05	0	0	0.31	0	0	0	0.13	0.31	0	0.01	0	0	0.03	0	0	0	0.03	1.5	1.5	2.0			
2021_4_Q2	4/7/21 0:01	4/7/21 23:01	10,410,944	0.15	0.29	0.16	0.03	0	0	0.27	0	0	0	0.08	0.14	0	0	0	0	0	0	0	0	0.03	0.90	0.90	1.1			
2021_5_Q2	4/7/21 23:01	4/12/21 0:01	45,886,544	0.55	1.4	0.62	0.08	0	0	1.0	0	0	0	0.34	0.71	0	0	0	0	0.11	0	0	0	0.14	3.6	3.6	4.8			
2021_6_Q2	4/12/21 0:01	4/12/21 23:01	13,840,482	0.14	0.43	0.17	0	0	0	0.26	0	0	0	0.10	0.25	0	0	0	0	0.06	0	0	0	0.04	1.0	1.0	1.4			
2021_7_Q2	4/12/21 23:01	4/15/21 0:01	29,381,843	0.29	0.91	0.34	0	0	0	0.50	0	0	0	0.19	0.39	0	0	0	0	0.07	0	0	0	0.10	2.0	2.0	2.7			
2021_8_Q2	4/15/21 0:01	4/15/21 23:01	11,500,434	0.12	0.36	0.13	0	0	0	0.17	0	0	0	0.06	0.10	0	0	0	0	0	0	0	0	0.05	0.77	0.77	0.93			
2021_9_Q2	4/15/21 23:01	4/18/21 0:01	16,662,709	0.28	0.68	0.22	0	0	0	0.27	0	0	0	0.15	0.22	0	0.02	0	0	0.03	0	0	0	0.06	1.5	1.5	1.9			
2021_10_Q2	4/18/21 0:01	4/19/21 0:01	8,227,630	0.20	0.42	0.13	0	0	0	0.14	0	0	0	0.10	0.15	0	0.02	0	0	0.03	0	0	0	0.03	0.89	0.91	1.2			
2021_11_Q2	4/19/21 0:01	4/19/21 23:01	7,742,902	0.24	0.71	0.37	0.15	0	0	0.19	0	0	0	0.15	0.17	0	0.03	0	0	0.05	0	0	0	0.04	1.7	1.7	2.1			
2021_12_Q2	4/19/21 23:01	4/20/21 15:00	4,805,992	0.10	0.32	0.15	0.05	0	0	0.10	0	0	0	0.07	0.09	0	0.02	0	0	0.01	0	0	0	0.02	0.74	0.75	0.93			
2021_13_Q2	4/20/21 15:00	4/21/21 10:48	4,923,224	0.10	0.24	0.13	0.03	0	0	0.14	0	0	0	0.08	0.11	0	0.02	0	0	0.01	0	0	0	0.02	0.64	0.66	0.86			
2021_14_Q2	4/21/21 10:48	4/21/21 14:20	767,103	0.02	0.04	0.03	0.01	0	0	0.03	0	0	0	0.01	0.02	0	0.00	0	0	0.00	0	0	0	0.00	0.12	0.12	0.16			
2021_15_Q2	4/21/21 14:20	4/22/21 13:20	4,914,813	0.11	0.31	0.13	0.04	0	0	0.09	0	0	0	0.16	1.6	0	0.02	0	0	0.11	0	0	0	0.02	0.69	0.71	2.6			
2021_16_Q2	4/22/21 13:20	4/27/21 19:10	24,434,154	0.56	1.6	0.62	0.16	0	0	0.60	0	0	0	0.57	4.4	0	0.08	0	0	0.28	0	0	0	0.09	3.5	3.6	8.9			
2021_17_Q2	4/27/21 19:10	4/28/21 0:01	951,361	0.02	0.06	0.02	0.01	0	0	0.03	0	0	0	0.01	0.03	0	0.00	0	0	0	0	0	0	0.00	0.14	0.14	0.18			
2021_18_Q2	4/28/21 0:01	4/28/21 23:01	5,011,912	0.09	0.28	0.10	0.02	0	0	0.12	0	0	0	0.09	0.10	0	0.02	0	0	0	0	0	0	0.02	0.61	0.63	0.81			
2021_19_Q2	4/28/21 23:01	5/3/21 0:01	21,894,557	0.35	1.1	0.37	0.09	0	0	0.50	0	0	0	0.38	0.41	0	0.16	0	0	0.05	0	0	0	0.09	2.5	2.6	3.5			
2021_20_Q2	5/3/21 0:01	5/3/21 23:01	5,122,772	0.07	0.25	0.07	0.02	0	0	0.11	0	0	0	0.09	0.09	0	0.06	0	0	0.02	0	0	0	0.02	0.53	0.58	0.79			
2021_21_Q2	5/3/21 23:01	5/6/21 23:01	12,568,517	0.18	0.67	0.19	0.04	0	0	0.36	0	0	0	0.22	0.24	0	0.11	0	0	0.05	0	0	0	0.06	1.4	1.5	2.1			
2021_22_Q2	5/6/21 23:01	5/10/21 0:01	21,343,568	0.28	0.95	0.29	0.06	0	0	0.65	0	0	0	0.37	0.36	0	0.15	0	0	0.07	0	0	0	0.12	2.2	2.4	3.2			
2021_23_Q2	5/10/21 0:01	5/10/21 23:01	7,888,422	0.09	0.25	0.08	0.02	0	0	0.21	0	0	0	0.14	0.11	0	0.06	0	0	0.02	0	0	0	0.05	0.64	0.70	1.0			
2021_24_Q2	5/10/21 23:01	5/12/21 0:01	7,988,324	0.09	0.29	0.08	0.02	0	0	0.20	0	0	0	0.13	0.12	0	0.05	0	0	0.03	0	0	0	0.05	0.68	0.73	1.0			
2021_25_Q2	5/12/21 0:01	5/12/21 23:01	5,563,666	0.07	0.22	0.06	0.02	0	0	0.13	0	0	0	0.08	0.09	0	0.03	0	0	0.02	0	0	0	0.03	0.49	0.52	0.72			
2021_26_Q2	5/12/21 23:01	5/17/21 0:01	22,401,202	0.28	0.86	0.29	0.08	0	0	0.68	0	0	0	0.29	0.40	0	0.11	0	0	0.07	0	0	0	0.14	2.2	2.3	3.1			
2021_27_Q2	5/17/21 0:01	5/17/21 23:01	4,025,636	0.05	0.15	0.06	0.02	0	0	0.15	0	0	0	0.04	0.08	0	0.02	0	0	0.01	0	0	0	0.03	0.43	0.45	0.58			
2021_28_Q2	5/17/21 23:01	5/20/21 0:01	7,962,584	0.14	0.33	0.13	0.03	0	0	0.29	0	0	0	0.10	0.16	0	0.04	0	0	0.02	0	0	0	0.05	0.92	1.0	1.2			
2021_29_Q2	5/20/21 0:01	5/20/21 23:01	3,378,313	0.07	0.15	0.06	0.01	0	0	0.12	0	0	0	0.05	0.07	0	0.02	0	0	0.01	0	0	0	0.02	0.42	0.44	0.56			
2021_30_Q2	5/20/21 23:01	5/24/21 0:01	9,420,080	0.20	0.52	0.20	0.04	0	0	0.33	0	0	0	0.12	0.20	0	0.04	0	0	0.03	0	0	0	0.05	1.3	1.3	1.7			
2021_31_Q2	5/24/21 0:01	5/24/21 23:01	2,681,039	0.06	0.18	0.07	0.02	0	0	0.09	0	0	0	0.03	0.06	0	0.01	0	0	0.01	0	0	0	0.02	0.41	0.42	0.52			
2021_32_Q2	5/24/21 23:01	5/26/21 11:25	4,522,087	0.09	0.20	0.09	0.02	0	0	0.15	0	0	0	0.03	0.05	0	0.02	0	0	0.01	0	0	0	0.02	0.55	0.57	0.66			
2021_33_Q2	5/26/21 11:25	5/26/21 14:18	345,834	0.01	0.01	0.01	0.00	0	0	0.01	0	0	0	0.00	0.00	0	0.002	0	0	0.00	0	0	0	0.00	0.03	0.04	0.04			
2021_34_Q2	5/26/21 14:18	5/27/21 0:01	1,223,288	0.03	0.07	0.03	0.01	0	0	0.04	0	0	0	0.02	0.03	0	0.01	0	0	0.01	0	0	0	0.01	0.17	0.18	0.23			
2021_35_Q2	5/27/21 0:01	5/27/21 13:18	1,679,472	0.03	0.10	0.04	0.01	0	0	0.07	0	0	0	0.02	0.04	0	0.01	0	0	0.01	0	0	0	0.01	0.25	0.26	0.33			
2021_36_Q2	5/27/21 13:18	5/27/21 23:01	1,215,897	0.02	0.08	0.03	0.01	0	0	0.06	0	0	0	0.01	0.02	0	0.01	0	0	0.00	0	0	0	0.01	0.19	0.20	0.24			
2021_37_Q2	5/27/21 23:01	6/2/21 0:01	14,589,491	0.28	0.82	0.30	0.06	0	0	0.63	0	0	0	0.16	0.28	0	0.07	0	0	0.06	0	0	0	0.09	2.1	2.2	2.7			
2021_38_Q2	6/2/21 0:01	6/3/21 0:01	3,174,432	0.06	0.16	0.06	0.01	0	0	0.12	0	0	0	0.03	0.06	0	0.01	0	0	0.01	0	0	0	0.02	0.41	0.42	0.53			

**TABLE B3  
CAPE FEAR RIVER PFAS MASS LOAD BY COMPOUND AND TIME INTERVAL - HISTORICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Interval Details				Calculated Mass Load <sup>2</sup> (kg)																								Total Attachment C <sup>3</sup>	Total Table 3+ (17 Compounds) <sup>4</sup>	Total Table 3+ (20 Compounds)
Interval ID	Start Time <sup>1</sup>	End Time <sup>1</sup>	Total River Flow (m <sup>3</sup> )	HFPO-DA	PFMOAA	PFO2HxA	PFO3OA	PFO4DA	PFOSDA	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	PFHpA						
2021_39_Q2	6/3/21 0:01	6/3/21 23:01	3,883,939	0.36	0.30	0.15	0.04	0	0.01	0.20	0	0	0	0.11	0.19	0	0.02	0	0	0.04	0	0	0	0.02	1.1	1.1	1.5			
2021_40_Q2	6/3/21 23:01	6/7/21 0:01	23,824,549	1.2	1.2	0.62	0.18	0	0.04	0.93	0	0	0	0.52	0.76	0	0.15	0	0	0.12	0	0	0	0.15	4.4	4.5	5.9			
2021_41_Q2	6/7/21 0:01	6/7/21 23:01	7,766,348	0.09	0.20	0.11	0.03	0	0	0.20	0	0	0	0.12	0.11	0	0.05	0	0	0	0	0	0	0.05	0.63	0.67	0.90			
2021_42_Q2	6/7/21 23:01	6/12/21 0:01	25,267,009	0.59	1.1	0.56	0.16	0	0	0.77	0	0	0	0.47	0.49	0	0.12	0	0	0.08	0	0	0	0.17	3.2	3.4	4.4			
2021_43_Q2	6/12/21 0:01	6/12/21 23:01	8,880,305	0.32	0.52	0.27	0.08	0	0	0.31	0	0	0	0.20	0.22	0	0.03	0	0	0.06	0	0	0	0.06	1.6	1.6	2.1			
2021_44_Q2	6/12/21 23:01	6/15/21 0:01	29,707,544	0.64	1.1	0.57	0.16	0	0	0.88	0	0	0	0.33	0.46	0	0.05	0	0	0.10	0	0	0	0.18	3.5	3.5	4.4			
2021_45_Q2	6/15/21 0:01	6/15/21 15:35	6,612,380	0.05	0.11	0.06	0.01	0	0	0.16	0	0	0	0	0.04	0	0	0	0	0	0	0	0	0.03	0.39	0.39	0.43			
2021_46_Q2	6/15/21 15:35	6/15/21 23:01	3,621,442	0.02	0.06	0.03	0.01	0	0	0.08	0	0	0	0	0.02	0	0	0	0	0	0	0	0	0.01	0.21	0.21	0.23			
2021_47_Q2	6/15/21 23:01	6/16/21 14:35	7,354,253	0.05	0.11	0.07	0.02	0	0	0.15	0	0	0	0	0.04	0	0	0	0	0	0	0	0	0.03	0.40	0.40	0.44			
2021_48_Q2	6/16/21 14:35	6/17/21 0:01	3,899,485	0.03	0.05	0.03	0.01	0	0	0.09	0	0	0	0	0.02	0	0	0	0	0	0	0	0	0.02	0.22	0.22	0.24			
2021_49_Q2	6/17/21 0:01	6/17/21 23:01	9,285,009	0.08	0.11	0.07	0.02	0	0	0.24	0	0	0	0	0.05	0	0	0	0	0	0	0	0	0.04	0.53	0.53	0.57			
2021_50_Q2	6/17/21 23:01	6/22/21 0:01	20,440,884	0.21	0.30	0.20	0.05	0	0	0.60	0	0	0	0	0.05	0	0	0	0	0	0	0	0	0.10	1.4	1.4	1.4			
2021_51_Q2	6/22/21 0:01	6/22/21 23:01	6,539,747	0.08	0.11	0.08	0.02	0	0	0.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.50	0.50	0.50			
2021_52_Q2	6/22/21 23:01	6/24/21 0:01	7,308,125	0.08	0.16	0.08	0.02	0	0	0.23	0	0	0	0.07	0.04	0	0.03	0	0	0.01	0	0	0	0.04	0.57	0.60	0.73			
2021_53_Q2	6/24/21 0:01	6/24/21 23:01	6,478,583	0.06	0.17	0.06	0.02	0	0	0.19	0	0	0	0.12	0.08	0	0.05	0	0	0.03	0	0	0	0.04	0.51	0.56	0.79			
2021_54_Q2	6/24/21 23:01	7/1/21 0:01	30,925,989	0.34	0.79	0.37	0.10	0	0	0.88	0	0	0	0.29	0.28	0	0.21	0	0	0.06	0	0	0	0.16	2.5	2.7	3.3			
2021_1_Q3	7/1/21 0:01	7/1/21 23:01	3,680,312	0.04	0.09	0.05	0.01	0	0	0.10	0	0	0	0	0.02	0	0.02	0	0	0	0	0	0	0.02	0.3	0.3	0.3			
2021_2_Q3	7/1/21 23:01	7/2/21 0:01	159,537	0.002	0.004	0.002	0.001	0	0	0.004	0	0	0	0	0.001	0	0.001	0	0	0	0	0	0	0.001	0.0	0.0	0.0			
2021_3_Q3	7/2/21 0:01	7/2/21 23:01	3,534,027	0.05	0.10	0.06	0.02	0	0	0.08	0	0	0	0	0.03	0	0.02	0	0	0	0	0	0	0.01	0.3	0.3	0.3			
2021_4_Q3	7/2/21 23:01	7/7/21 0:01	20,942,687	0.27	0.57	0.36	0.09	0	0	0.46	0	0	0	0	0.17	0	0.10	0	0	0	0	0	0	0.09	1.7	1.8	2.0			
2021_5_Q3	7/7/21 0:01	7/8/21 0:01	4,029,204	0.04	0.12	0.05	0.01	0	0	0.06	0	0	0	0.08	0.05	0	0.03	0	0	0.012	0	0	0	0.02	0.3	0.3	0.5			
2021_6_Q3	7/8/21 0:01	7/8/21 23:01	5,141,631	0.09	0.15	0.09	0.02	0	0	0.19	0	0	0	0	0.03	0	0.03	0	0	0	0	0	0	0.02	0.5	0.6	0.6			
2021_7_Q3	7/8/21 23:01	7/12/21 0:01	73,353,432	0.84	1.32	0.84	0.17	0	0	2.05	0	0	0	0	0.44	0	0.21	0	0	0	0	0	0	0.36	5.2	5.4	5.9			
2021_8_Q3	7/12/21 0:01	7/12/21 23:01	18,931,398	0.09	0.10	0.09	0	0	0	0.49	0	0	0	0.06	0.12	0	0	0	0	0	0	0	0	0.10	0.8	0.8	1.0			
2021_9_Q3	7/12/21 23:01	7/15/21 0:01	28,718,974	0.17	0.26	0.16	0.03	0	0	0.73	0	0	0	0	0.17	0	0	0	0	0	0	0	0	0.18	1.4	1.4	1.5			
2021_10_Q3	7/15/21 0:01	7/15/21 23:01	7,335,649	0.05	0.08	0.05	0.02	0	0	0.23	0	0	0	0	0.04	0	0	0	0	0	0	0	0	0.05	0.4	0.4	0.5			
2021_11_Q3	7/15/21 23:01	7/19/21 0:01	15,634,637	0.15	0.18	0.14	0.04	0	0	0.41	0	0	0	0.08	0.14	0	0.03	0	0	0.023	0	0	0	0.09	0.9	1.0	1.2			
2021_12_Q3	7/19/21 0:01	7/19/21 23:01	4,792,485	0.06	0.06	0.06	0.02	0	0	0.11	0	0	0	0.05	0.06	0	0.02	0	0	0.014	0	0	0	0.03	0.3	0.3	0.4			
2021_13_Q3	7/19/21 23:01	7/22/21 0:01	30,027,382	0.35	0.30	0.33	0.08	0	0	0.62	0	0	0	0.32	0.30	0	0.06	0	0	0.096	0	0	0	0.15	1.7	1.7	2.5			
2021_14_Q3	7/22/21 0:01	7/22/21 23:01	18,125,047	0.20	0.15	0.18	0.04	0	0	0.34	0	0	0	0.20	0.13	0	0	0	0	0.063	0	0	0	0.07	0.9	0.9	1.3			
2021_15_Q3	7/22/21 23:01	7/26/21 0:01	33,961,782	0.39	0.33	0.36	0.09	0	0	0.80	0	0	0	0.19	0.16	0	0	0	0	0.059	0	0	0	0.16	2.0	2.0	2.4			
2021_16_Q3	7/26/21 0:01	7/26/21 23:01	4,158,414	0.05	0.05	0.05	0.01	0	0	0.12	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0.02	0.3	0.3	0.3			
2021_17_Q3	7/26/21 23:01	7/28/21 8:50	10,535,566	0.09	0.08	0.09	0.02	0	0	0.30	0	0	0	0	0.03	0	0.02	0	0	0	0	0	0	0.05	0.6	0.6	0.6			
2021_18_Q3	7/28/21 8:50	7/28/21 17:45	3,259,043	0.03	0.03	0.03	0.01	0	0	0.10	0	0	0	0.03	0.02	0	0.02	0	0	0	0	0	0	0.01	0.2	0.2	0.3			
2021_19_Q3	7/28/21 17:45	7/29/21 0:01	1,919,033	0.02	0.02	0.02	0.005	0	0	0.06	0	0	0	0.02	0.01	0	0.01	0	0	0	0	0	0	0.01	0.1	0.1	0.2			
2021_20_Q3	7/29/21 0:01	7/29/21 16:45	4,560,570	0.04	0.04	0.04	0.01	0	0	0.13	0	0	0	0.04	0.02	0	0.02	0	0	0.005	0	0	0	0.02	0.3	0.3	0.3			
2021_21_Q3	7/29/21 16:45	7/29/21 23:01	1,537,775	0.01	0.01	0.01	0	0	0	0.04	0	0	0	0.01	0.01	0	0.01	0	0	0.003	0	0	0	0.01	0.1	0.1	0.1			
2021_22_Q3	7/29/21 23:01	8/2/21 0:01	13,721,466	0.17	0.24	0.18	0.03	0	0	0.43	0	0	0	0.19	0.12	0	0.07	0	0	0.049	0	0	0	0.06	1.1	1.1	1.5			
2021_23_Q3	8/2/21 0:01	8/2/21 23:01	3,584,998	0.06	0.10	0.06	0.01	0	0	0.13	0	0	0	0.07	0.05	0	0.02	0	0	0.018	0	0	0	0.01	0.4	0.4	0.5			
2021_24_Q3	8/2/21 23:01	8/5/21 0:01	7,496,715	0.13	0.22	0.16	0.04	0	0	0.28	0	0	0	0.18	0.13	0	0.05	0	0	0.046	0	0	0	0.03	0.8	0.9	1.2			
2021_25_Q3	8/5/21 0:01	8/5/21 23:01	3,293,702	0.07	0.11	0.08	0.02	0	0	0.13	0	0	0	0.10	0.07	0	0.03	0	0	0.024	0	0	0	0.01	0.4	0.4	0.6			
2021_26_Q3	8/5/21 23:01	8/12/21 0:01	22,986,087	0.40	0.54	0.48	0.11	0	0	0.93	0	0	0	0.43	0.28	0	0.18	0	0	0.108	0	0	0	0.09	2.5	2.7	3.5			
2021_27_Q3	8/12/21 0:01	8/12/21 23:01	3,745,554	0.05	0.06	0.06	0.01	0	0	0.15	0	0	0	0.03	0.02	0	0.03	0	0	0.004	0	0	0	0.02	0.3	0.4	0.4			
2021_28_Q3	8/12/21 23:01	8/13/21 23:01	3,737,654	0.05	0.05	0.06	0.01	0	0	0.13	0	0	0	0.04	0.01	0	0.04	0	0	0	0	0	0	0.01	0.3	0.3	0.4			

**TABLE B3**  
**CAPE FEAR RIVER PFAS MASS LOAD BY COMPOUND AND TIME INTERVAL - HISTORICAL RESULTS**  
**Chemours Fayetteville Works, North Carolina**

Interval Details				Calculated Mass Load <sup>2</sup> (kg)																							Total Attachment C <sup>3</sup>	Total Table 3+ (17 Compounds) <sup>4</sup>	Total Table 3+ (20 Compounds)
Interval ID	Start Time <sup>1</sup>	End Time <sup>1</sup>	Total River Flow (m <sup>3</sup> )	HFPO-DA	PFMOAA	PFO2HxA	PFO3OA	PFO4DA	PFOSDA	PMPA	PEPA	PS Acid	Hydro-PS Acid	R-PSDA	Hydrolyzed PSDA	R-PSDCA	NVHOS	EVE Acid	Hydro-EVE Acid	R-EVE	PES	PFCEA B	PFCEA-G	PFHpA					
2021_29_Q3	8/13/21 23:01	8/16/21 0:01	6,453,353	0.09	0.12	0.10	0.02	0	0	0.17	0	0	0	0.06	0.05	0	0.04	0	0	0.007	0	0	0	0.02	0.5	0.5	0.7		
2021_30_Q3	8/16/21 0:01	8/16/21 23:01	2,767,943	0.04	0.07	0.04	0.01	0	0	0.05	0	0	0	0.02	0.03	0	0.01	0	0	0.006	0	0	0	0.01	0.2	0.2	0.3		
2021_31_Q3	8/16/21 23:01	8/19/21 0:01	8,403,477	0.11	0.21	0.13	0.03	0	0	0.15	0	0	0	0.11	0.13	0	0.04	0	0	0.022	0	0	0	0.03	0.6	0.7	0.9		
2021_32_Q3	8/19/21 0:01	8/19/21 8:30	1,975,100	0.03	0.05	0.03	0.01	0	0	0.04	0	0	0	0.03	0.04	0	0.01	0	0	0.006	0	0	0	0.01	0.1	0.2	0.2		
2021_33_Q3	8/19/21 8:30	8/19/21 23:01	3,968,804	0.05	0.09	0.06	0.01	0	0	0.07	0	0	0	0.03	0.04	0	0.01	0	0	0.006	0	0	0	0.01	0.3	0.3	0.4		
2021_34_Q3	8/19/21 23:01	8/20/21 7:30	2,691,233	0.03	0.06	0.04	0.01	0	0	0.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.2	0.2	0.2		
2021_35_Q3	8/20/21 7:30	8/23/21 0:01	27,326,210	0.25	0.38	0.29	0.04	0	0	0.45	0	0	0	0	0.05	0	0.05	0	0	0	0	0	0	0.12	1.4	1.5	1.5		
2021_36_Q3	8/23/21 0:01	8/23/21 23:01	8,088,226	0.04	0.05	0.06	0	0	0	0.15	0	0	0	0	0.03	0	0.03	0	0	0	0	0	0	0.04	0.3	0.3	0.4		
2021_37_Q3	8/23/21 23:01	8/26/21 0:01	14,924,621	0.09	0.10	0.12	0	0	0	0.31	0	0	0	0	0.08	0	0.05	0	0	0	0	0	0	0.08	0.6	0.7	0.8		
2021_38_Q3	8/26/21 0:01	8/26/21 23:01	6,297,893	0.04	0.05	0.06	0	0	0	0.15	0	0	0	0	0.04	0	0.02	0	0	0	0	0	0	0.03	0.3	0.3	0.4		
2021_39_Q3	8/26/21 23:01	8/29/21 0:01	9,197,340	0.08	0.06	0.10	0.01	0	0	0.17	0	0	0	0.03	0.05	0	0.02	0	0	0	0	0	0	0.05	0.4	0.4	0.5		
2021_40_Q3	8/29/21 0:01	8/29/21 23:01	3,058,729	0.03	0.02	0.04	0.01	0	0	0.04	0	0	0	0.02	0.01	0	0.01	0	0	0	0	0	0	0.01	0.1	0.1	0.2		
2021_41_Q3	8/29/21 23:01	9/2/21 0:01	8,258,976	0.11	0.05	0.12	0.03	0	0	0.09	0	0	0	0.05	0.04	0	0.02	0	0	0	0	0	0	0.04	0.4	0.4	0.5		
2021_42_Q3	9/2/21 0:01	9/2/21 23:01	2,419,052	0.04	0.02	0.04	0.01	0	0	0.03	0	0	0	0.01	0.01	0	0.01	0	0	0	0	0	0	0.01	0.1	0.1	0.2		
2021_43_Q3	9/2/21 23:01	9/6/21 0:01	7,682,502	0.12	0.09	0.14	0.03	0	0	0.10	0	0	0	0.02	0.04	0	0.04	0	0	0	0	0	0	0.03	0.5	0.5	0.6		
2021_44_Q3	9/6/21 0:01	9/6/21 23:01	2,363,035	0.04	0.04	0.05	0.01	0	0	0.04	0	0	0	0	0.01	0	0.01	0	0	0	0	0	0	0.01	0.2	0.2	0.2		
2021_45_Q3	9/6/21 23:01	9/9/21 0:01	4,947,689	0.08	0.08	0.10	0.02	0	0	0.07	0	0	0	0	0.03	0	0.03	0	0	0	0	0	0	0.02	0.3	0.4	0.4		
2021_46_Q3	9/9/21 0:01	9/9/21 23:01	2,523,337	0.04	0.04	0.05	0.01	0	0	0.03	0	0	0	0	0.01	0	0.02	0	0	0	0	0	0	0.01	0.2	0.2	0.2		
2021_47_Q3	9/9/21 23:01	9/13/21 0:01	10,867,638	0.14	0.22	0.17	0.04	0	0	0.16	0	0	0	0.05	0.07	0	0.10	0	0	0.015	0	0	0	0.05	0.7	0.8	1.0		
2021_48_Q3	9/13/21 0:01	9/13/21 23:01	3,151,495	0.03	0.08	0.04	0.01	0	0	0.05	0	0	0	0.03	0.03	0	0.03	0	0	0.004	0	0	0	0.02	0.2	0.2	0.3		
2021_49_Q3	9/13/21 23:01	9/14/21 21:36	2,629,049	0.03	0.08	0.04	0.01	0	0	0.05	0	0	0	0.03	0.03	0	0.03	0	0	0.007	0	0	0	0.01	0.2	0.2	0.3		
2021_50_Q3	9/14/21 21:36	9/15/21 20:36	2,525,834	0.03	0.09	0.05	0.01	0	0	0.05	0	0	0	0.03	0.03	0	0.03	0	0	0.006	0	0	0	0.01	0.2	0.3	0.3		
2021_51_Q3	9/15/21 20:36	9/16/21 0:01	352,460	0.005	0.01	0.01	0.002	0	0	0.01	0	0	0	0.00	0.00	0	0.004	0	0	0.001	0	0	0	0.002	0.0	0.0	0.0		
2021_52_Q3	9/16/21 0:01	9/16/21 23:01	2,355,594	0.03	0.10	0.04	0.01	0	0	0.05	0	0	0	0.03	0.03	0	0.03	0	0	0.006	0	0	0	0.01	0.2	0.3	0.3		
2021_53_Q3	9/16/21 23:01	9/20/21 0:01	7,542,487	0.10	0.28	0.13	0.03	0	0	0.13	0	0	0	0.07	0.07	0	0.06	0	0	0.010	0	0	0	0.05	0.7	0.7	0.9		
2021_54_Q3	9/20/21 0:01	9/20/21 23:01	2,421,855	0.03	0.08	0.04	0.01	0	0	0.04	0	0	0	0.02	0.02	0	0.01	0	0	0	0	0	0	0.02	0.2	0.2	0.2		
2021_55_Q3	9/20/21 23:01	9/21/21 23:01	2,432,865	0.03	0.08	0.04	0.01	0	0	0.04	0	0	0	0.01	0.01	0	0.01	0	0	0	0	0	0	0.02	0.2	0.2	0.2		
2021_56_Q3	9/21/21 23:01	9/27/21 0:01	65,688,158	0.68	1.77	0.76	0.12	0	0	0.95	0	0	0	0.38	0.41	0	0.15	0	0	0	0	0	0	0.21	4.3	4.4	5.2		
2021_57_Q3	9/27/21 0:01	9/27/21 23:01	5,200,247	0.03	0.11	0.04	0	0	0	0.07	0	0	0	0.04	0.03	0	0	0	0	0	0	0	0	0	0.2	0.2	0.3		
2021_58_Q3	9/27/21 23:01	9/30/21 0:01	6,652,137	0.07	0.20	0.07	0.01	0	0	0.10	0	0	0	0.05	0.06	0	0.01	0	0	0.007	0	0	0	0.01	0.5	0.5	0.6		
2021_59_Q3	9/30/21 0:01	9/30/21 23:01	2,372,108	0.03	0.09	0.04	0.01	0	0	0.04	0	0	0	0.02	0.03	0	0.01	0	0	0.005	0	0	0	0.01	0.2	0.2	0.3		
2021_1_Q4	9/30/21 23:01	10/4/21 0:01	6,559,524	0.09	0.2	0.1	0.02	0	0	0.1	0	0	0	0.04	0.06	0	0.02	0	0	0.007	0	0	0	0.02	0.6	0.6	0.7		
2021_2_Q4	10/4/21 0:01	10/4/21 23:01	1,951,068	0.03	0.06	0.03	0.007	0	0	0.03	0	0	0	0.008	0.01	0	0.006	0	0	0	0	0	0	0.006	0.2	0.2	0.2		
2021_3_Q4	10/4/21 23:01	10/7/21 0:01	5,166,989	0.07	0.2	0.08	0.02	0	0	0.08	0	0	0	0.03	0.04	0	0.02	0	0	0.006	0	0	0	0.02	0.4	0.4	0.5		
2021_4_Q4	10/7/21 0:01	10/7/21 23:01	2,410,132	0.03	0.07	0.04	0.01	0	0	0.03	0	0	0	0.02	0.03	0	0.01	0	0	0.006	0	0	0	0.008	0.2	0.2	0.3		
2021_5_Q4	10/7/21 23:01	10/11/21 0:01	15,381,009	0.1	0.3	0.2	0.03	0	0	0.1	0	0	0	0.1	0.1	0	0.090	0	0	0.02	0	0	0	0.07	0.7	0.8	1.1		
2021_6_Q4	10/11/21 0:01	10/11/21 23:01	17,019,756	0.06	0.2	0.08	0	0	0	0	0	0	0	0.06	0.08	0	0.10	0	0	0	0	0	0	0.09	0.3	0.4	0.5		
2021_7_Q4	10/11/21 23:01	10/15/21 0:01	19,881,739	0.1	0.3	0.1	0.02	0	0	0.1	0	0	0	0.07	0.1	0	0.06	0	0	0	0	0	0	0.08	0.7	0.7	0.9		
2021_8_Q4	10/15/21 0:01	10/15/21 23:01	2,886,959	0.02	0.06	0.03	0.007	0	0	0.03	0	0	0	0	0.02	0	0.000	0	0	0	0	0	0	0.008	0.1	0.1	0.2		
2021_9_Q4	10/15/21 23:01	10/18/21 0:01	5,304,227	0.05	0.1	0.06	0.02	0	0	0.08	0	0	0	0	0.03	0	0.008	0	0	0	0	0	0	0.01	0.3	0.3	0.4		
2021_10_Q4	10/18/21 0:01	10/18/21 23:01	2,237,801	0.03	0.05	0.03	0.008	0	0	0.04	0	0	0	0	0.02	0	0.006	0	0	0	0	0	0	0.006	0.2	0.2	0.2		
2021_11_Q4	10/18/21 23:01	10/20/21 11:50	3,495,035	0.04	0.09	0.06	0.01	0	0	0.06	0	0	0	0.019	0.03	0	0.02	0	0	0	0	0	0	0.01	0.3	0.3	0.3		
2021_12_Q4	10/20/21 11:50	10/20/21 16:24	395,020	0.01	0.01	0.01	0.002	0	0	0.01	0	0	0	0.004	0.005	0	0.002	0	0	0	0	0	0	0.001	0.03	0.03	0.04		
2021_13_Q4	10/20/21 16:24	10/21/21 0:01	688,864	0.01	0.02	0.01	0.003	0	0	0.01	0	0	0	0.008	0.008	0	0.005	0	0	0.002	0	0	0	0.002	0.1	0.1	0.1		

**TABLE B3  
CAPE FEAR RIVER PFAS MASS LOAD BY COMPOUND AND TIME INTERVAL - HISTORICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Interval Details				Calculated Mass Load <sup>2</sup> (kg)																						Total Attachment C <sup>3</sup>	Total Table 3+ (17 Compounds) <sup>4</sup>	Total Table 3+ (20 Compounds)
Interval ID	Start Time <sup>1</sup>	End Time <sup>1</sup>	Total River Flow (m <sup>3</sup> )	HFPO-DA	PFMOAA	PFO2HxA	PFO3OA	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	PFHpA				
2021_14_Q4	10/21/21 0:01	10/21/21 15:24	1,417,357	0.02	0.04	0.02	0.006	0	0	0.03	0	0	0	0.02	0.02	0	0.009	0	0	0.005	0	0	0	0.004	0.1	0.1	0.2	
2021_15_Q4	10/21/21 15:24	10/21/21 23:01	659,072	0.01	0.02	0.01	0.003	0	0	0.02	0	0	0	0	0.008	0	0.004	0	0	0.002	0	0	0	0.002	0.1	0.1	0.1	
2021_16_Q4	10/21/21 23:01	10/25/21 0:01	6,679,686	0.09	0.2	0.1	0.03	0	0	0.2	0	0	0	0.04	0.07	0	0.04	0	0	0.01	0	0	0	0.02	0.6	0.6	0.7	
2021_17_Q4	10/25/21 0:01	10/25/21 23:01	2,121,181	0.03	0.04	0.03	0.008	0	0	0.06	0	0	0	0	0.02	0	0.02	0	0	0	0	0	0	0.008	0.2	0.2	0.2	
2021_18_Q4	10/25/21 23:01	10/28/21 0:01	4,651,017	0.06	0.1	0.06	0.02	0	0	0.1	0	0	0	0	0.04	0	0.03	0	0	0	0	0	0	0.02	0.4	0.4	0.4	
2021_19_Q4	10/28/21 0:01	10/28/21 23:01	2,164,735	0.03	0.05	0.02	0.008	0	0	0.05	0	0	0	0	0.02	0	0.01	0	0	0	0	0	0	0.01	0.2	0.2	0.2	
2021_20_Q4	10/28/21 23:01	11/1/21 0:01	8,909,001	0.1	0.2	0.1	0.03	0	0	0.2	0	0	0	0	0.09	0	0.05	0	0	0	0	0	0	0.04	0.6	0.7	0.8	
2021_21_Q4	11/1/21 0:01	11/1/21 23:01	2,725,383	0.04	0.05	0.04	0.01	0	0	0.06	0	0	0	0	0.03	0	0.01	0	0	0	0	0	0	0.01	0.2	0.2	0.2	
2021_22_Q4	11/1/21 23:01	11/4/21 0:01	5,647,002	0.07	0.1	0.08	0.02	0	0	0.1	0	0	0	0	0.06	0	0.03	0	0	0	0	0	0	0.03	0.4	0.4	0.5	
2021_23_Q4	11/4/21 0:01	11/4/21 23:01	2,375,982	0.03	0.05	0.03	0.008	0	0	0.05	0	0	0	0	0.03	0	0.01	0	0	0	0	0	0	0.01	0.2	0.2	0.2	
2021_24_Q4	11/4/21 23:01	11/8/21 0:01	7,357,821	0.1	0.2	0.1	0.03	0	0	0.2	0	0	0	0.04	0.07	0	0.05	0	0	0.01	0	0	0	0.04	0.5	0.6	0.7	
2021_25_Q4	11/8/21 0:01	11/8/21 23:01	2,222,612	0.03	0.05	0.03	0.009	0	0	0.05	0	0	0	0.02	0.02	0	0.02	0	0	0.004	0	0	0	0.01	0.2	0.2	0.2	
2021_26_Q4	11/8/21 23:01	11/10/21 10:50	3,396,841	0.05	0.07	0.05	0.01	0	0	0.08	0	0	0	0.02	0.03	0	0.02	0	0	0.006	0	0	0	0.02	0.3	0.3	0.3	
2021_27_Q4	11/10/21 10:50	11/10/21 16:36	516,610	0.01	0.01	0.01	0.002	0	0	0.01	0	0	0	0	0.004	0	0.003	0	0	0	0	0	0	0.003	0.04	0.04	0.05	
2021_28_Q4	11/10/21 16:36	11/11/21 0:01	674,975	0.01	0.01	0.01	0.002	0	0	0.02	0	0	0	0	0.01	0	0.004	0	0	0	0	0	0	0.004	0.1	0.1	0.1	
2021_29_Q4	11/11/21 0:01	11/11/21 15:36	1,456,655	0.02	0.03	0.02	0.005	0	0	0.04	0	0	0	0	0.01	0	0.009	0	0	0	0	0	0	0.007	0.1	0.1	0.1	
2021_30_Q4	11/11/21 15:36	11/11/21 23:01	754,182	0.01	0.01	0.01	0.003	0	0	0.02	0	0	0	0	0.01	0	0.005	0	0	0	0	0	0	0.004	0.1	0.1	0.1	
2021_31_Q4	11/11/21 23:01	11/15/21 0:01	7,993,905	0.1	0.2	0.1	0.03	0	0	0.2	0	0	0	0.06	0.07	0	0.06	0	0	0	0	0	0	0.04	0.6	0.6	0.8	
2021_32_Q4	11/15/21 0:01	11/15/21 23:01	2,508,759	0.03	0.05	0.04	0.01	0	0	0.05	0	0	0	0.04	0.03	0	0.02	0	0	0	0	0	0	0.01	0.2	0.2	0.3	
2021_33_Q4	11/15/21 23:01	11/18/21 0:01	4,983,063	0.08	0.1	0.08	0.02	0	0	0.1	0	0	0	0.06	0.05	0	0.04	0	0	0	0	0	0	0.03	0.4	0.4	0.6	
2021_34_Q4	11/18/21 0:01	11/18/21 23:01	2,220,548	0.04	0.05	0.04	0.009	0	0	0.06	0	0	0	0.03	0.02	0	0.02	0	0	0	0	0	0	0.01	0.2	0.2	0.3	
2021_35_Q4	11/18/21 23:01	11/22/21 0:01	7,117,674	0.1	0.1	0.1	0.03	0	0	0.2	0	0	0	0.04	0.06	0	0.05	0	0	0	0	0	0	0.04	0.6	0.6	0.7	
2021_36_Q4	11/22/21 0:01	11/22/21 23:01	2,229,646	0.03	0.03	0.03	0.008	0	0	0.04	0	0	0	0	0.01	0	0.01	0	0	0	0	0	0	0.01	0.1	0.2	0.2	
2021_37_Q4	11/22/21 23:01	11/25/21 0:01	5,630,284	0.07	0.08	0.08	0.02	0	0	0.09	0	0	0	0.02	0.04	0	0.04	0	0	0	0	0	0	0.03	0.3	0.4	0.4	
2021_38_Q4	11/25/21 0:01	11/25/21 23:01	2,670,845	0.03	0.04	0.04	0.009	0	0	0.04	0	0	0	0.02	0.02	0	0.02	0	0	0	0	0	0	0.01	0.2	0.2	0.2	
2021_39_Q4	11/25/21 23:01	11/29/21 0:01	8,163,662	0.1	0.1	0.1	0.03	0	0	0.1	0	0	0	0.02	0.05	0	0.05	0	0	0	0	0	0	0.04	0.5	0.5	0.6	
2021_40_Q4	11/29/21 0:01	11/29/21 23:01	2,393,312	0.03	0.03	0.03	0.008	0	0	0.03	0	0	0	0	0.01	0	0.01	0	0	0	0	0	0	0.01	0.1	0.1	0.2	
2021_41_Q4	11/29/21 23:01	12/2/21 0:01	4,965,427	0.04	0.1	0.07	0.02	0	0	0.06	0	0	0	0	0.03	0	0.01	0	0	0	0	0	0	0.02	0.3	0.3	0.3	
2021_42_Q4	12/2/21 0:01	12/2/21 23:01	2,323,839	0.01	0.06	0.04	0.01	0	0	0.03	0	0	0	0	0.02	0	0	0	0	0	0	0	0	0.01	0.2	0.2	0.2	
2021_43_Q4	12/2/21 23:01	12/6/21 0:01	6,759,837	0.04	0.2	0.1	0.03	0	0	0.09	0	0	0	0	0.05	0	0	0	0	0	0	0	0	0.03	0.4	0.4	0.5	
2021_44_Q4	12/6/21 0:01	12/6/21 23:01	2,166,774	0.01	0.06	0.03	0.009	0	0	0.03	0	0	0	0	0.02	0	0	0	0	0	0	0	0	0.01	0.1	0.1	0.2	
2021_45_Q4	12/6/21 23:01	12/9/21 0:01	4,310,203	0.08	0.1	0.08	0.02	0	0	0.07	0	0	0	0	0.04	0	0	0	0	0	0	0	0	0.02	0.4	0.4	0.4	
2021_46_Q4	12/9/21 0:01	12/9/21 23:01	3,880,677	0.1	0.1	0.09	0.03	0	0	0.08	0	0	0	0	0.05	0	0	0	0	0	0	0	0	0.02	0.5	0.5	0.5	
2021_47_Q4	12/9/21 23:01	12/13/21 0:01	10,843,936	0.2	0.2	0.2	0.04	0	0	0.1	0	0	0	0	0.07	0	0.03	0	0	0	0	0	0	0.04	0.7	0.7	0.8	
2021_48_Q4	12/13/21 0:01	12/13/21 23:01	3,010,307	0	0.02	0.02	0	0	0	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0.008	0.04	0.1	0.1	
2021_49_Q4	12/13/21 23:01	12/15/21 9:16	4,054,180	0.01	0.07	0.05	0.006	0	0	0	0	0	0	0	0.02	0	0.03	0	0	0	0	0	0	0.02	0.1	0.2	0.2	
2021_50_Q4	12/15/21 9:16	12/16/21 0:01	1,535,226	0.01	0.05	0.02	0.005	0	0	0	0	0	0	0	0.01	0	0.02	0	0	0	0	0	0	0.008	0.1	0.1	0.1	
2021_51_Q4	12/16/21 0:01	12/16/21 8:16	829,797	0.005	0.03	0.01	0.003	0	0	0	0	0	0	0	0.003	0	0.01	0	0	0	0	0	0	0.004	0.05	0.1	0.1	
2021_52_Q4	12/16/21 8:16	12/16/21 23:01	1,528,090	0.01	0.05	0.02	0.006	0	0	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0.008	0.1	0.1	0.1	
2021_53_Q4	12/16/21 23:01	12/20/21 0:01	7,326,576	0.08	0.2	0.1	0.03	0	0	0.06	0	0	0	0.04	0.02	0	0.08	0	0	0.009	0	0	0	0.04	0.5	0.6	0.7	
2021_54_Q4	12/20/21 0:01	12/20/21 23:01	2,870,802	0.04	0.09	0.05	0.01	0	0	0.05	0	0	0	0.03	0.02	0	0.03	0	0	0.007	0	0	0	0.01	0.2	0.3	0.3	
2021_55_Q4	12/20/21 23:01	12/23/21 0:01	8,730,197	0.09	0.2	0.1	0.02	0	0	0.1	0	0	0	0.1	0.06	0	0.09	0	0	0.02	0	0	0	0.04	0.6	0.7	0.8	
2021_56_Q4	12/23/21 0:01	12/23/21 23:01	5,142,651	0.04	0.09	0.05	0	0	0	0.06	0	0	0	0.07	0.03	0	0.06	0	0	0.01	0	0	0	0.02	0.2	0.3	0.4	
2021_57_Q4	12/23/21 23:01	12/27/21 0:01	11,483,614	0.1	0.3	0.1	0.02	0	0	0.1	0	0	0	0.1	0.09	0	0.09	0	0	0.01	0	0	0	0.05	0.7	0.8	1.0	
2021_58_Q4	12/27/21 0:01	12/27/21 23:01	2,756,730	0.03	0.08	0.04	0.01	0	0	0.03	0	0	0	0.02	0.02	0	0.01	0	0	0	0	0	0	0.01	0.2	0.2	0.2	

**TABLE B3  
CAPE FEAR RIVER PFAS MASS LOAD BY COMPOUND AND TIME INTERVAL - HISTORICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Interval Details				Calculated Mass Load <sup>2</sup> (kg)																						Total Attachment C <sup>3</sup>	Total Table 3+ (17 Compounds) <sup>4</sup>	Total Table 3+ (20 Compounds)
Interval ID	Start Time <sup>1</sup>	End Time <sup>1</sup>	Total River Flow (m <sup>3</sup> )	HFPO-DA	PFMOAA	PFO2HxA	PFO3OA	PFO4DA	PFOSDA	PMPA	PEPA	PS Acid	Hydro-PS Acid	R-PSDA	Hydrolyzed PSDA	R-PSDCA	NVHOS	EVE Acid	Hydro-EVE Acid	R-EVE	PES	PFCEA B	PFCEA-G	PFHpA				
2021_59_Q4	12/27/21 23:01	12/30/21 0:01	5,396,993	0.06	0.2	0.08	0.02	0	0	0.07	0	0	0	0.03	0.04	0	0.02	0	0	0	0	0	0	0.02	0.4	0.4	0.5	
2021_60_Q4	12/30/21 0:01	12/30/21 23:01	2,364,768	0.03	0.07	0.03	0.007	0	0	0.04	0	0	0	0.01	0.01	0	0.008	0	0	0	0	0	0	0.01	0.2	0.2	0.2	
2022_1_Q1	12/30/21 23:01	1/2/22 0:01	6,663,350	0.071	0.15	0.083	0.019	0	0	0.10	0	0	0	0.016	0.030	0	0.022	0	0	0	0	0	0	0.026	0.4	0.4	0.5	
2022_2_Q1	1/2/22 0:01	1/2/22 23:01	4,747,631	0.044	0.076	0.052	0.013	0	0	0.07	0	0	0	0	0.016	0	0.015	0	0	0	0	0	0	0.016	0.3	0.3	0.3	
2022_3_Q1	1/2/22 23:01	1/3/22 23:01	8,548,998	0.18	0.24	0.17	0.045	0	0	0.18	0	0	0	0.053	0.12	0	0.035	0	0	0	0	0	0	0.029	0.8	0.8	1.0	
2022_4_Q1	1/3/22 23:01	1/11/22 0:01	204,788,058	2.6	3.9	2.6	0.54	0	0	2.2	0	0	0	0.92	1.8	0	0.42	0	0	0	0	0	0	0.75	12	12	15	
2022_5_Q1	1/11/22 0:01	1/11/22 23:01	12,376,614	0.053	0.12	0.064	0	0	0	0	0	0	0	0.03	0.041	0	0	0	0	0	0	0	0	0.048	0.2	0.2	0.3	
2022_6_Q1	1/11/22 23:01	1/13/22 0:01	17,190,506	0.069	0.086	0.085	0	0	0	0	0	0	0	0.04	0.047	0	0	0	0	0	0	0	0	0.069	0.2	0.2	0.3	
2022_7_Q1	1/13/22 0:01	1/13/22 23:01	14,486,276	0.054	0	0.068	0	0	0	0	0	0	0	0.03	0.032	0	0	0	0	0	0	0	0	0.059	0.1	0.1	0.2	
2022_8_Q1	1/13/22 23:01	1/19/22 0:01	61,867,779	0.22	0.16	0.24	0	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0	0	0	0.26	0.6	0.6	0.9	
2022_9_Q1	1/19/22 0:01	1/19/22 23:01	17,235,105	0.059	0.087	0.062	0	0	0	0	0	0	0	0.04	0.022	0	0	0	0	0	0	0	0	0.072	0.2	0.2	0.3	
2022_10_Q1	1/19/22 23:01	1/20/22 14:01	10,391,575	0.030	0.053	0.032	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0	0	0	0.037	0.1	0.1	0.1	
2022_11_Q1	1/20/22 14:01	1/25/22 0:01	80,800,706	0.29	0.21	0.27	0	0	0	0	0	0	0	0.11	0	0	0	0	0	0	0	0	0	0.30	0.8	0.8	0.9	
2022_12_Q1	1/25/22 0:01	1/25/22 23:01	16,923,167	0.071	0	0.063	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.064	0.1	0.1	0.1	
2022_13_Q1	1/25/22 23:01	1/26/22 12:54	9,641,037	0.040	0.033	0.043	0	0	0	0	0	0	0	0	0.014	0	0.010	0	0	0	0	0	0	0.039	0.1	0.1	0.1	
2022_14_Q1	1/26/22 12:54	1/27/22 11:54	14,657,536	0.062	0.10	0.076	0	0	0	0	0	0	0	0	0.044	0	0.031	0	0	0	0	0	0	0.063	0.2	0.3	0.3	
2022_15_Q1	1/27/22 11:54	1/28/22 0:01	6,759,429	0.030	0.050	0.034	0	0	0	0.034	0	0	0	0	0.010	0	0.007	0	0	0	0	0	0	0.028	0.1	0.2	0.2	
2022_16_Q1	1/28/22 0:01	1/28/22 23:01	10,674,715	0.051	0.085	0.053	0	0	0	0.11	0	0	0	0	0	0	0	0	0	0	0	0	0	0.043	0.3	0.3	0.3	
2022_17_Q1	1/28/22 23:01	1/31/22 0:01	14,213,075	0.081	0.15	0.086	0	0	0	0.16	0	0	0	0	0.021	0	0.020	0	0	0	0	0	0	0.062	0.5	0.5	0.5	
2022_18_Q1	1/31/22 0:01	1/31/22 23:01	5,886,053	0.039	0.077	0.042	0	0	0	0.077	0	0	0	0	0.017	0	0.016	0	0	0	0	0	0	0.028	0.2	0.3	0.3	
2022_19_Q1	1/31/22 23:01	2/3/22 0:01	11,973,184	0.089	0.19	0.11	0.022	0	0	0.17	0	0	0	0	0.040	0	0.033	0	0	0	0	0	0	0.051	0.6	0.6	0.7	
2022_20_Q1	2/3/22 0:01	2/3/22 23:01	5,202,286	0.043	0.10	0.057	0.019	0	0	0.078	0	0	0	0	0.020	0	0.014	0	0	0	0	0	0	0.020	0.3	0.3	0.3	
2022_21_Q1	2/3/22 23:01	2/7/22 0:01	19,595,286	0.12	0.27	0.15	0.036	0	0	0.26	0	0	0	0	0.058	0	0.066	0	0	0	0	0	0	0.083	0.9	0.9	1.0	
2022_22_Q1	2/7/22 0:01	2/7/22 23:01	9,708,063	0.042	0.089	0.048	0	0	0	0.11	0	0	0	0.01	0.022	0	0.038	0	0	0	0	0	0	0.046	0.3	0.3	0.4	
2022_23_Q1	2/7/22 23:01	2/11/22 0:01	49,173,875	0.19	0.36	0.21	0	0	0	0.30	0	0	0	0	0.052	0	0.098	0	0	0	0	0	0	0.22	1.1	1.2	1.2	
2022_24_Q1	2/11/22 0:01	2/11/22 23:01	12,978,828	0.047	0.071	0.047	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.055	0.2	0.2	0.2	
2022_25_Q1	2/11/22 23:01	2/14/22 0:01	15,094,861	0.067	0.10	0.082	0	0	0	0.083	0	0	0	0	0.017	0	0.025	0	0	0	0	0	0	0.058	0.3	0.4	0.4	
2022_26_Q1	2/14/22 0:01	2/14/22 23:01	5,535,377	0.029	0.043	0.040	0	0	0	0.061	0	0	0	0	0.013	0	0.018	0	0	0	0	0	0	0.019	0.2	0.2	0.2	
2022_27_Q1	2/14/22 23:01	2/18/22 0:01	15,776,844	0.042	0.061	0.10	0	0	0	0.087	0	0	0	0	0.018	0	0.026	0	0	0	0	0	0	0.028	0.3	0.3	0.3	
2022_28_Q1	2/18/22 0:01	2/18/22 23:01	4,735,143	0	0	0.027	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.03	0.03	0.03
2022_29_Q1	2/18/22 23:01	2/26/22 0:01	33,417,928	0	0	0.21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.057	0.2	0.2	0.2	
2022_30_Q1	2/26/22 0:01	2/26/22 23:01	6,174,035	0	0	0.043	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.021	0.04	0.04	0.04	
2022_31_Q1	2/26/22 23:01	2/27/22 23:01	9,199,889	0	0	0.035	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.029	0.03	0.03	0.03	
2022_32_Q1	2/27/22 23:01	2/28/22 23:01	10,643,878	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2022_33_Q1	2/28/22 23:01	3/3/22 0:01	24,555,718	0.036	0	0.05	0	0	0	0	0	0	0	0.15	0.025	0	0.063	0	0	0.058	0	0	0	0.059	0.1	0.1	0.4	
2022_34_Q1	3/3/22 0:01	3/3/22 23:01	10,699,436	0.031	0	0.04	0	0	0	0	0	0	0	0.13	0.021	0	0.055	0	0	0.050	0	0	0	0.051	0.1	0.1	0.3	
2022_35_Q1	3/3/22 23:01	3/7/22 0:01	16,598,996	0.081	0.091	0.10	0.017	0	0	0	0	0	0	0.19	0.041	0	0.090	0	0	0.079	0	0	0	0.080	0.3	0.4	0.7	
2022_36_Q1	3/7/22 0:01	3/7/22 23:01	3,841,633	0.026	0.042	0.032	0.008	0	0	0	0	0	0	0.04	0.011	0	0.022	0	0	0.018	0	0	0	0.018	0.1	0.1	0.2	
2022_37_Q1	3/7/22 23:01	3/10/22 23:01	12,345,522	0.089	0.15	0.12	0.030	0	0	0.13	0	0	0	0.12	0.044	0	0.087	0	0	0.066	0	0	0	0.055	0.5	0.6	0.8	
2022_38_Q1	3/10/22 23:01	3/17/22 12:30	205,183,587	0.93	1.2	1.2	0.236	0	0	1.0	0	0	0	1.0	0.36	0	0.698	0	0	0.53	0	0	0	0.81	4.7	5.4	7.3	
2022_39_Q1	3/17/22 12:30	3/18/22 9:00	39,619,233	0.042	0	0.052	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.14	0.1	0.1	0.1	
2022_40_Q1	3/18/22 9:00	3/22/22 9:10	206,215,736	0.36	0.92	0.47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.67	1.8	1.8	1.8	

**TABLE B3  
CAPE FEAR RIVER PFAS MASS LOAD BY COMPOUND AND TIME INTERVAL - HISTORICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Interval Details				Calculated Mass Load <sup>2</sup> (kg)																						Total Attachment C <sup>3</sup>	Total Table 3+ (17 Compounds) <sup>4</sup>	Total Table 3+ (20 Compounds)
Interval ID	Start Time <sup>1</sup>	End Time <sup>1</sup>	Total River Flow (m <sup>3</sup> )	HFPO-DA	PFMOAA	PFO2HxA	PFO3OA	PFO4DA	PFOSDA	PMPA	PEPA	PS Acid	Hydro-PS Acid	R-PSDA	Hydrolyzed PSDA	R-PSDCA	NVHOS	EVE Acid	Hydro-EVE Acid	R-EVE	PES	PFCEA B	PFCEA-G	PFHpA				
2022_41_Q1	3/22/22 9:10	3/23/22 8:10	23,996,574	0.084	0.21	0.11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.072	0.4	0.4	0.4
2022_42_Q1	3/23/22 8:10	3/24/22 13:05	25,746,385	0.084	0.16	0.10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.079	0.3	0.3	0.3
2022_43_Q1	3/24/22 13:05	3/29/22 0:01	101,425,847	0.27	0.32	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.35	0.9	0.9	0.9
2022_44_Q1	3/29/22 0:01	3/29/22 23:01	18,757,589	0.043	0.058	0.049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.073	0.2	0.2	0.2
2022_45_Q1	3/29/22 23:01	3/31/22 0:01	14,136,874	0.037	0.047	0.042	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.053	0.1	0.1	0.1
2022_46_Q1	3/31/22 0:01	3/31/22 23:01	11,889,083	0.034	0.042	0.040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.043	0.1	0.1	0.1
2022_1_Q2	3/31/22 23:01	4/4/22 0:01	54,661,595	0.15	0.10	0.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.17	0.4	0.4	0.4
2022_2_Q2	4/4/22 0:01	4/4/22 23:01	15,899,173	0.040	0	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.045	0.1	0.1	0.1
2022_3_Q2	4/4/22 23:01	4/7/22 0:01	26,113,881	0.084	0.11	0.11	0	0	0	0	0	0	0	0	0.14	0	0	0	0	0	0	0	0	0	0.084	0.3	0.3	0.5
2022_4_Q2	4/7/22 0:01	4/7/22 23:01	15,992,194	0.06	0.14	0.086	0	0	0	0	0	0	0	0	0.18	0	0	0	0	0	0	0	0	0	0.058	0.3	0.3	0.5
2022_5_Q2	4/7/22 23:01	4/11/22 0:01	44,026,891	0.19	0.41	0.24	0	0	0	0.24	0	0	0	0	0.34	0	0.046	0	0	0	0	0	0	0	0.13	1.1	1.1	1.5
2022_6_Q2	4/11/22 0:01	4/11/22 23:01	7,753,096	0.036	0.081	0.045	0	0	0	0.081	0	0	0	0	0.037	0	0.017	0	0	0	0	0	0	0	0.017	0.2	0.3	0.3
2022_7_Q2	4/11/22 23:01	4/15/22 0:01	22,813,807	0.12	0.11	0.14	0	0	0	0.13	0	0	0	0	0.049	0	0.055	0	0	0	0	0	0	0	0.054	0.5	0.5	0.6
2022_8_Q2	4/15/22 0:01	4/15/22 23:01	4,711,952	0.025	0	0.03	0	0	0	0	0	0	0	0	0	0	0.013	0	0	0	0	0	0	0	0.011	0.1	0.1	0.1
2022_9_Q2	4/15/22 23:01	4/19/22 17:05	16,481,509	0.11	0.067	0.12	0.021	0	0	0	0	0	0	0.032	0.018	0	0.063	0	0	0	0	0	0	0	0.048	0.3	0.4	0.4
2022_10_Q2	4/19/22 17:05	4/19/22 17:33	131,503	0.001	0.001	0.001	0.0003	0	0	0	0	0	0	0.0006	0.0003	0	0.0007	0	0	0	0	0	0	0.0004	0.004	0.004	0.005	
2022_11_Q2	4/19/22 17:33	4/20/22 16:33	23,706,807	0.10	0.45	0.22	0.066	0	0	0	0	0	0	0.57	0.24	0	0.26	0	0	0.12	0	0	0	0.078	0.8	1.1	2.0	
2022_12_Q2	4/20/22 16:33	4/21/22 0:01	12,666,125	0.026	0.12	0.059	0.018	0	0	0	0	0	0	0.15	0.063	0	0.070	0	0	0.032	0	0	0	0.042	0.2	0.3	0.5	
2022_13_Q2	4/21/22 0:01	4/21/22 23:01	34,746,470	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11	0	0	0	
2022_14_Q2	4/21/22 23:01	4/22/22 0:01	1,378,747	0	0	0.0014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0057	0.001	0.001	0.001	
2022_15_Q2	4/22/22 0:01	4/22/22 23:01	22,915,238	0	0	0.048	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11	0.05	0.05	0.05	
2022_16_Q2	4/22/22 23:01	4/25/22 0:01	17,344,946	0.046	0	0.075	0	0	0	0.095	0	0	0	0	0	0	0.037	0	0	0	0	0	0	0.082	0.2	0.3	0.3	
2022_17_Q2	4/25/22 0:01	4/25/22 23:01	5,297,855	0.028	0	0.034	0	0	0	0.058	0	0	0	0	0	0	0.023	0	0	0	0	0	0	0.024	0.1	0.1	0.1	
2022_18_Q2	4/25/22 23:01	4/28/22 0:01	12,402,864	0.061	0.087	0.076	0	0	0	0.068	0	0	0	0	0.017	0	0.054	0	0	0	0	0	0	0.047	0.3	0.3	0.4	
2022_19_Q2	4/28/22 0:01	4/28/22 23:01	6,236,474	0.029	0.087	0.036	0	0	0	0	0	0	0	0	0.017	0	0.027	0	0	0	0	0	0	0.019	0.2	0.2	0.2	
2022_20_Q2	4/28/22 23:01	5/2/22 0:01	12,666,380	0.075	0.22	0.088	0.014	0	0	0.070	0	0	0	0	0.047	0	0.066	0	0	0	0	0	0	0.044	0.5	0.5	0.6	
2022_21_Q2	5/2/22 0:01	5/2/22 23:01	3,566,394	0.026	0.071	0.029	0.0078	0	0	0.039	0	0	0	0	0.016	0	0.021	0	0	0	0	0	0	0.014	0.2	0.2	0.2	
2022_22_Q2	5/2/22 23:01	5/5/22 0:01	8,605,575	0.066	0.15	0.082	0.020	0	0	0.047	0	0	0	0	0.048	0	0.061	0	0	0	0	0	0	0.033	0.4	0.4	0.5	
2022_23_Q2	5/5/22 0:01	5/5/22 23:01	3,891,839	0.032	0.058	0.043	0.010	0	0	0	0	0	0	0	0.026	0	0.032	0	0	0	0	0	0	0.015	0.1	0.2	0.2	
2022_24_Q2	5/5/22 23:01	5/9/22 0:01	12,039,445	0.087	0.18	0.13	0.030	0	0	0	0	0	0	0	0.085	0	0.097	0	0	0	0	0	0	0.046	0.4	0.5	0.6	
2022_25_Q2	5/9/22 0:01	5/9/22 23:01	5,303,972	0.031	0.077	0.049	0.012	0	0	0	0	0	0	0	0.038	0	0.041	0	0	0	0	0	0	0.019	0.2	0.2	0.2	
2022_26_Q2	5/9/22 23:01	5/13/22 0:01	19,443,904	0.12	0.28	0.17	0.045	0	0	0	0	0	0	0	0.12	0	0.103	0	0	0	0	0	0	0.066	0.6	0.7	0.8	
2022_27_Q2	5/13/22 0:01	5/13/22 23:01	4,416,833	0.025	0.062	0.033	0.0093	0	0	0	0	0	0	0	0.021	0	0.011	0	0	0	0	0	0	0.013	0.1	0.1	0.2	
2022_28_Q2	5/13/22 23:01	5/16/22 0:01	9,041,626	0.056	0.13	0.066	0.0095	0	0	0	0	0	0	0.017	0.043	0	0.030	0	0	0	0	0	0	0.030	0.3	0.3	0.3	
2022_29_Q2	5/16/22 0:01	5/16/22 23:01	4,886,780	0.032	0.068	0.035	0	0	0	0	0	0	0	0.019	0.024	0	0.020	0	0	0	0	0	0	0.018	0.1	0.2	0.2	
2022_30_Q2	5/16/22 23:01	5/19/22 0:01	8,779,383	0.054	0.13	0.061	0	0	0	0	0	0	0	0.047	0.043	0	0.041	0	0	0	0	0	0	0.039	0.2	0.3	0.4	
2022_31_Q2	5/19/22 0:01	5/19/22 23:01	3,594,937	0.020	0.054	0.024	0	0	0	0	0	0	0	0.025	0.018	0	0.019	0	0	0	0	0	0	0.019	0.1	0.1	0.2	
2022_32_Q2	5/19/22 23:01	5/23/22 0:01	8,895,596	0.065	0.16	0.074	0.012	0	0	0	0	0	0	0.049	0.049	0	0.041	0	0	0	0	0	0	0.046	0.3	0.4	0.5	
2022_33_Q2	5/23/22 0:01	5/23/22 23:01	2,544,693	0.023	0.056	0.025	0.0069	0	0	0	0	0	0	0.011	0.015	0	0.010	0	0	0	0	0	0	0.013	0.1	0.1	0.1	
2022_34_Q2	5/23/22 23:01	5/26/22 0:01	9,485,832	0.056	0.15	0.066	0.013	0	0	0	0	0	0	0.020	0.046	0	0.050	0	0	0	0	0	0	0.051	0.3	0.3	0.4	
2022_35_Q2	5/26/22 0:01	5/26/22 23:01	7,610,634	0.023	0.065	0.030	0	0	0	0	0	0	0	0	0.028	0	0.050	0	0	0	0	0	0	0.043	0.1	0.2	0.2	
2022_36_Q2	5/26/22 23:01	5/30/22 0:01	65,272,087	0.10	0.28	0.13	0	0	0	0	0	0	0	0	0.12	0	0.22	0	0	0	0	0	0	0.33	0.5	0.7	0.8	

**TABLE B3  
CAPE FEAR RIVER PFAS MASS LOAD BY COMPOUND AND TIME INTERVAL - HISTORICAL RESULTS  
Chemours Fayetteville Works, North Carolina**

Interval Details				Calculated Mass Load <sup>2</sup> (kg)																							Total Attachment C <sup>3</sup>	Total Table 3+ (17 Compounds) <sup>4</sup>	Total Table 3+ (20 Compounds)
Interval ID	Start Time <sup>1</sup>	End Time <sup>1</sup>	Total River Flow (m <sup>3</sup> )	HFPO-DA	PFMOAA	PFO2HxA	PFO3OA	PFO4DA	PFOSDA	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	PFHpA					
2022_37_Q2	5/30/22 0:01	5/30/22 23:01	21,136,119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.095	0	0	0	
2022_38_Q2	5/30/22 23:01	6/2/22 0:01	32,553,217	0.060	0.14	0.062	0	0	0	0	0	0	0	0	0	0	0.054	0	0	0	0	0	0	0	0.15	0.3	0.3	0.3	
2022_39_Q2	6/2/22 0:01	6/2/22 23:01	4,337,065	0.016	0.037	0.016	0	0	0	0	0	0	0	0	0	0	0.014	0	0	0	0	0	0	0	0.020	0.1	0.1	0.1	
2022_40_Q2	6/2/22 23:01	6/6/22 0:01	8,446,751	0.054	0.12	0.058	0.011	0	0	0	0	0	0	0	0.030	0	0.029	0	0	0	0	0	0	0	0.038	0.2	0.3	0.3	
2022_41_Q2	6/6/22 0:01	6/6/22 23:01	2,254,519	0.024	0.050	0.026	0.0065	0	0	0.011	0	0	0	0	0.017	0	0.0082	0	0	0	0	0	0	0	0.011	0.1	0.1	0.1	
2022_42_Q2	6/6/22 23:01	6/9/22 0:01	4,585,265	0.046	0.10	0.050	0.013	0	0	0	0	0	0	0	0.027	0	0.014	0	0	0	0	0	0	0	0.021	0.2	0.2	0.2	
2022_43_Q2	6/9/22 0:01	6/9/22 23:01	2,373,866	0.026	0.052	0.028	0.0076	0	0	0	0	0	0	0	0.011	0	0.0064	0	0	0	0	0	0	0	0.011	0.1	0.1	0.1	
2022_44_Q2	6/9/22 23:01	6/13/22 0:01	9,656,277	0.094	0.20	0.11	0.028	0	0	0	0	0	0	0	0.054	0	0.048	0	0	0	0	0	0	0	0.040	0.4	0.5	0.5	
2022_45_Q2	6/13/22 0:01	6/13/22 23:01	3,004,446	0.026	0.060	0.030	0.0078	0	0	0	0	0	0	0	0.020	0	0.022	0	0	0	0	0	0	0	0.011	0.1	0.1	0.2	
2022_46_Q2	6/13/22 23:01	6/16/22 0:01	6,218,125	0.051	0.13	0.062	0.016	0	0	0	0	0	0	0	0.041	0	0.048	0	0	0.0062	0	0	0	0	0.023	0.3	0.3	0.4	
2022_47_Q2	6/16/22 0:01	6/16/22 23:01	2,469,767	0.020	0.054	0.025	0.0064	0	0	0	0	0	0	0	0.017	0	0.020	0	0	0.0049	0	0	0	0	0.0099	0.1	0.1	0.1	
2022_48_Q2	6/16/22 23:01	6/20/22 0:01	7,629,034	0.068	0.16	0.088	0.022	0	0	0	0	0	0	0	0.026	0	0.031	0	0	0.0076	0	0	0	0	0.030	0.3	0.4	0.4	
2022_49_Q2	6/20/22 0:01	6/20/22 23:01	2,367,877	0.023	0.050	0.031	0.0076	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0092	0.1	0.1	0.1	
2022_50_Q2	6/20/22 23:01	6/23/22 0:01	5,095,350	0.048	0.10	0.061	0.016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.020	0.2	0.2	0.2	
2022_51_Q2	6/23/22 0:01	6/23/22 23:01	2,160,403	0.020	0.039	0.024	0.0063	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0089	0.1	0.1	0.1	
2022_52_Q2	6/23/22 23:01	6/27/22 0:01	6,296,797	0.063	0.13	0.076	0.019	0	0	0	0	0	0	0	0.025	0	0.035	0	0	0	0	0	0	0	0.025	0.3	0.3	0.3	
2022_53_Q2	6/27/22 0:01	6/27/22 23:01	1,982,057	0.022	0.046	0.026	0.0059	0	0	0	0	0	0	0	0.016	0	0.022	0	0	0	0	0	0	0	0.0075	0.1	0.1	0.1	
2022_54_Q2	6/27/22 23:01	6/30/22 0:01	4,601,728	0.051	0.11	0.060	0.015	0	0	0	0	0	0	0	0.039	0	0.045	0	0	0	0	0	0	0	0.018	0.2	0.3	0.3	
2022_55_Q2	6/30/22 0:01	6/30/22 23:01	2,475,782	0.027	0.059	0.032	0.0087	0	0	0	0	0	0	0	0.022	0	0.021	0	0	0	0	0	0	0	0.0097	0.1	0.1	0.2	

**Notes**  
 1 - Start and end times are adjusted based on sampling times ± one hour to account for the total flow of the Cape Fear River.  
 2 - The calculated mass load is a product of weighted concentration and total river flow. Refer to the Cape Fear River PFAS Mass Loading Calculation Protocol Version 2 (Geosyntec, 2020a) for more details.  
 3 - Total Attachment C does not include Perfluoroheptanoic acid (PFHpA).  
 4 - Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, and R-EVE.  
 Where mass loads are equal to 0 kg, the compound was not detected above the reporting limit.  
 kg - kilogram  
 m<sup>3</sup> - cubic meter  
 NA - Compound not analyzed



**TABLE B4  
SUMMARY OF TOTAL PFAS MASS DISCHARGE AT TAR HEEL FERRY ROAD BRIDGE - HISTORICAL DATA  
Chemours Fayetteville Works, North Carolina**

Quarter	Field Sample ID	Collection Date	Hours Composited <sup>1</sup>	Concentrations (ng/L)			Total Volume (ft <sup>3</sup> ) <sup>4</sup>	Instantaneous Flow Rate (ft <sup>3</sup> /s) <sup>5</sup>	Mass Discharge (mg/s)		
				Total Attachment C <sup>2</sup>	Total Table 3+ (17 compounds) <sup>3</sup>	Total Table 3+ (20 compounds)			Total Attachment C <sup>2</sup>	Total Table 3+ (17 compounds) <sup>3</sup>	Total Table 3+ (20 compounds)
2020 Q1	CFR-TARHEEL-83-033120	3/31/20 12:00	83	52	52	63	3,197,300,000	--	16	16	19
2020 Q1	CFR-TARHEEL-83-033120-D	3/31/20 12:00	83	56	56	65	3,197,300,000	--	17	17	20
2020 Q1	CFR-TARHEEL-48-040220	4/2/20 13:00	48	86	86	110	958,620,000	--	14	14	17
2020 Q1	CAP1Q20-CFR-TARHEEL-040220	4/2/20 15:45	0	89	91	130	--	4,770	12	12	18
2020 Q1	CAP1Q20-CFR-TARHEEL-24-040320	4/3/20 15:00	24	120	120	160	319,930,000	--	13	13	16
2020 Q1	CFR-TARHEEL-83-040620	4/6/20 0:30	83	120	130	160	880,860,000	--	10	11	13
2020 Q1	CFR-TARHEEL-79-040920	4/9/20 6:30	79	190	200	250	589,470,000	--	11	12	14
2020 Q1	CFR-TARHEEL-83-041920	4/19/20 1:30	83	71	71	81	1,960,700,000	--	13	13	15
2020 Q1	CFR-TARHEEL-83-042220	4/22/20 13:30	83	120	120	130	977,480,000	--	11	11	12
2020 Q1	CFR-TARHEEL-83-042620	4/26/20 0:49	83	110	110	140	1,006,200,000	--	10	11	14
2020 Q1	CFR-TARHEEL-83-042920	4/29/20 11:49	83	120	130	170	808,310,000	--	9.2	9.9	13
2020 Q1	CFR-TARHEEL-62-050220	5/2/20 23:49	62	83	86	130	1,912,800,000	--	20	21	31
2020 Q1	CFR-TARHEEL-83-050620	5/6/20 11:49	83	51	51	74	2,577,100,000	--	12	12	18
2020 Q1	CFR-TARHEEL-83-051120	5/9/20 11:49	83	79	82	110	1,755,700,000	--	13	14	19
2020 Q2	CFR-TARHEEL-83-051320	5/13/20 9:49	83	140	140	190	575,460,000	--	7.6	7.8	11
2020 Q2	CAP2Q20-CFR-TARHEEL-051420	5/14/20 8:55	0	190	200	270	--	1,540	8.3	8.7	12
2020 Q2	CAP2Q20-TARHEEL-24-051820	5/14/20 20:50	24	180	190	250	125,860,000	--	7.4	7.8	11
2020 Q2	CFR-TARHEEL-83-051620	5/16/20 19:49	83	190	190	260	417,990,000	--	7.5	7.6	10
2020 Q2	CFR-TARHEEL-83-052020	5/20/20 8:49	83	260	260	340	384,660,000	--	9.5	9.5	12
2020 Q2	CFR-TARHEEL-052520	5/25/20 10:15	0	4.2	4.2	9.6	--	23,500	2.8	2.8	6.4
2020 Q2	CFR-TARHEEL-052920	5/29/20 9:10	0	11	11	11	--	15,500	4.8	4.8	4.8
2020 Q2	CFR-TARHEEL-060120	6/1/20 14:25	0	9.2	9.2	15	--	23,200	6	6	9.9
2020 Q2	CFR-TARHEEL-060120-D	6/1/20 14:25	0	11	11	13	--	23,200	7.2	7.2	8.5
2020 Q2	CFR-TARHEEL-060520	6/5/20 10:55	0	47	47	53	--	14,700	20	20	22
2020 Q2	CFR-TARHEEL-39-060820	6/8/20 21:06	82	45	45	58	3,650,600,000	--	16	16	20
2020 Q2	CFR-TARHEEL-83-061220	6/12/20 8:06	82	72	72	93	2,027,900,000	--	14	14	18
2020 Q2	CFR-TARHEEL-83-061520	6/15/20 19:06	82	75	75	88	2,054,000,000	--	15	15	17
2020 Q2	CFR-TARHEEL-83-061920	6/19/20 6:06	82	90	90	100	3,096,900,000	--	27	27	30
2020 Q2	CFR-TARHEEL-83-062220	6/22/20 17:06	82	40	40	49	4,194,300,000	--	16	16	20
2020 Q2	CFR-TARHEEL-83-062620	6/26/20 4:06	82	79	79	110	2,464,400,000	--	19	19	25
2020 Q2	CFR-TARHEEL-83-062920	6/29/20 15:06	82	120	120	160	1,286,000,000	--	15	15	19
2020 Q3	CFR-TARHEEL-65-070220	7/2/20 8:06	64	84	87	100	584,870,000	--	6	6.3	7.4
2020 Q3	CFR-TARHEEL-24-070320	7/3/20 7:29	24	150	150	210	204,760,000	--	10	10	14
2020 Q3	CFR-TARHEEL-24-070720	7/7/20 7:29	24	190	190	250	166,590,000	--	10	10	14
2020 Q3	CFR-TARHEEL-24-071020	7/10/20 11:01	24	150	150	200	215,400,000	--	11	11	14
2020 Q3	CFR-TARHEEL-24-071020-D	7/10/20 11:01	24	150	160	210	215,400,000	--	11	11	15
2020 Q3	CFR-TARHEEL-24-071320	7/13/20 23:01	24	140	150	210	216,310,000	--	9.9	10	15
2020 Q3	CFR-TARHEEL-24-071620	7/16/20 23:01	24	160	170	210	180,990,000	--	9.5	10	12
2020 Q3	CFR-TARHEEL-24-072020	7/20/20 23:01	24	170	180	180	163,050,000	--	9.1	9.5	9.5
2020 Q3	CFR-TARHEEL-24-072220	7/22/20 23:01	24	99	100	150	165,240,000	--	5.4	5.6	7.9
2020 Q3	CFR-TARHEEL-24-072320	7/23/20 23:01	24	150	160	200	143,600,000	--	7.1	7.3	9.5
2020 Q3	CFR-TARHEEL-12-072720	7/27/20 11:01	11	78	81	110	108,840,000	--	6.1	6.3	8.4
2020 Q3	CAP3Q20-CFR-TARHEEL-072820	7/28/20 16:20	0	75	78	78	--	2,780	5.9	6.1	6.1
2020 Q3	CAP3Q20-CFR-TARHEEL-24-072920	7/29/20 23:01	24	94	97	120	247,120,000	--	7.6	7.9	9.5
2020 Q3	CFR-TARHEEL-24-073020	7/30/20 23:01	24	78	81	99	335,190,000	--	8.6	8.9	11



**TABLE B4**  
**SUMMARY OF TOTAL PFAS MASS DISCHARGE AT TAR HEEL FERRY ROAD BRIDGE - HISTORICAL DATA**  
**Chemours Fayetteville Works, North Carolina**

Quarter	Field Sample ID	Collection Date	Hours Composited <sup>1</sup>	Concentrations (ng/L)			Total Volume (ft <sup>3</sup> ) <sup>4</sup>	Instantaneous Flow Rate (ft <sup>3</sup> /s) <sup>5</sup>	Mass Discharge (mg/s)		
				Total Attachment C <sup>2</sup>	Total Table 3+ (17 compounds) <sup>3</sup>	Total Table 3+ (20 compounds)			Total Attachment C <sup>2</sup>	Total Table 3+ (17 compounds) <sup>3</sup>	Total Table 3+ (20 compounds)
2020 Q3	CFR-TARHEEL-080320	8/3/20 14:50	0	110	120	140	--	2,450	7.6	8.3	9.7
2020 Q3	CFR-TARHEEL-080420	8/4/20 12:30	0	210	210	240	--	4,250	25	25	29
2020 Q3	CFR-TARHEEL-24-080620	8/6/20 22:55	24	21	21	24	760,600,000	--	5.2	5.2	5.9
2020 Q3	CFR-TARHEEL-24-081020	8/10/20 21:56	24	36	36	36	507,950,000	--	6	6	6
2020 Q3	CFR-TARHEEL-24-081220	8/12/20 23:01	24	46	46	72	672,600,000	--	10	10	16
2020 Q3	CFR-TARHEEL-24-081720	8/17/20 23:01	24	25	25	35	1,107,700,000	--	9.1	8.9	13
2020 Q3	CFR-TARHEEL-24-082020	8/20/20 23:01	24	47	47	64	750,330,000	--	12	11	16
2020 Q3	CFR-TARHEEL-24-082520	8/25/20 23:01	24	58	58	58	529,670,000	--	10	10	10
2020 Q3	CFR-TARHEEL-082720	8/27/20 11:18	0	130	130	150	--	2,850	10	10	12
2020 Q3	CFR-TARHEEL-082720-D	8/27/20 11:18	0	130	130	160	--	2,850	10	10	13
2020 Q3	CFR-TARHEEL-083120	8/31/20 13:30	0	200	200	250	--	1,840	10	10	13
2020 Q3	CFR-TARHEEL-24-090320	9/3/20 23:01	24	44	44	56	515,400,000	--	7.4	7.5	9.5
2020 Q3	CFR-TARHEEL-24-090720	9/7/20 23:01	24	59	59	74	255,760,000	--	4.9	5	6.2
2020 Q3	CFR-TARHEEL-24-091020	9/10/20 23:01	24	160	160	220	146,080,000	--	7.7	7.6	11
2020 Q3	CFR-TARHEEL-24-091420	9/14/20 23:01	24	84	88	120	170,490,000	--	4.7	4.9	6.5
2020 Q3	CFR-TARHEEL-24-091720	9/17/20 23:01	24	100	110	150	135,600,000	--	4.4	4.9	6.8
2020 Q3	CFR-TARHEEL-11-091820	9/18/20 10:01	10	160	170	280	104,290,000	--	13	14	23
2020 Q3	CFR-TARHEEL-24-092120	9/21/20 23:01	24	58	58	67	570,840,000	--	11	11	13
2020 Q3	CFR-TARHEEL-24-092420-2	9/24/20 23:01	24	69	69	80	382,980,000	--	8.7	8.6	10
2020 Q3	CFR-TARHEEL-24-092520	9/25/20 23:01	24	70	70	84	382,150,000	--	8.8	8.8	11
2020 Q3	CFR-TARHEEL-24-092620	9/26/20 23:01	24	70	70	83	703,470,000	--	16	16	19
2020 Q3	CFR-TARHEEL-24-092820	9/28/20 23:01	24	51	51	58	841,660,000	--	14	14	16
2020 Q3	CFR-TARHEEL-24-092920	9/29/20 23:01	24	16	16	22	792,600,000	--	4.2	4.2	5.6
2020 Q3	CFR-TARHEEL-24-093020	9/30/20 23:01	24	74	74	96	971,470,000	--	24	23	31
2020 Q4	CFR-TARHEEL-18-100120	10/1/20 17:01	18	15	15	15	847,260,000	--	5.6	5.5	5.5
2020 Q4	CFR-TARHEEL-9-100620	10/6/20 23:30	9	24	24	29	126,380,000	--	2.7	2.7	3.2
2020 Q4	CFR-TARHEEL-24-100820	10/8/20 16:30	24	39	39	47	231,100,000	--	3	3	3.5
2020 Q4	CFR-TARHEEL-24-101220	10/12/20 23:01	24	170	170	220	352,550,000	--	20	20	25
2020 Q4	CFR-TARHEEL-24-101520	10/15/20 23:01	24	26	26	35	745,010,000	--	6.3	6.4	8.5
2020 Q4	CFR-TARHEEL-24-101920	10/19/20 23:01	24	32	32	42	632,270,000	--	6.6	6.5	8.7
2020 Q4	CFR-TARHEEL-24-102220	10/22/20 23:01	24	51	51	51	423,540,000	--	7.1	7	7
2020 Q4	CFR-TARHEEL-12-103020	10/30/20 23:01	24	56	60	82	325,130,000	--	6	6.4	8.7
2020 Q4	CFR-TARHEEL-24-103120	10/31/20 23:01	24	70	74	92	351,490,000	--	8.1	8.5	11
2020 Q4	CFR-TARHEEL-24-110220	11/2/20 23:01	24	51	54	58	547,950,000	--	9.2	9.7	10
2020 Q4	CFR-TARHEEL-24-110520	11/5/20 23:01	24	65	65	71	362,140,000	--	7.7	7.8	8.4
2020 Q4	CFR-TARHEEL-24-110920	11/9/20 23:01	24	90	93	130	198,700,000	--	5.9	6	8.2
2020 Q4	CFR-TARHEEL-24-111120	11/11/20 23:01	24	74	77	110	193,470,000	--	4.7	4.9	7.1
2020 Q4	CFR-TARHEEL-20-111220	11/12/20 19:01	20	240	240	310	538,380,000	--	51	51	66
2020 Q4	CFR-TARHEEL-111320	11/13/20 14:10	0	6.1	6.1	6.1	--	30,500	5.3	5.3	5.3
2020 Q4	CFR-TARHEEL-111820	11/18/20 12:25	0	22	22	31	--	16,200	10	10	14
2020 Q4	CFR-TARHEEL-112020	11/20/20 11:06	0	24	24	36	--	13,000	8.8	8.8	13
2020 Q4	CFR-TARHEEL-24-112420	11/24/20 23:01	24	31	31	38	975,960,000	--	9.9	10	12
2020 Q4	CFR-TARHEEL-24-112620	11/26/20 23:01	24	36	36	45	691,990,000	--	8.2	8.2	10
2020 Q4	CFR-TARHEEL-24-113020	11/30/20 23:01	24	94	94	120	541,810,000	--	17	17	20
2020 Q4	CFR-TARHEEL-24-120320	12/3/20 23:01	24	46	46	53	1,088,100,000	--	16	17	19

TABLE B4

SUMMARY OF TOTAL PFAS MASS DISCHARGE AT TAR HEEL FERRY ROAD BRIDGE - HISTORICAL DATA  
Chemours Fayetteville Works, North Carolina

Quarter	Field Sample ID	Collection Date	Hours Composited <sup>1</sup>	Concentrations (ng/L)			Total Volume (ft <sup>3</sup> ) <sup>4</sup>	Instantaneous Flow Rate (ft <sup>3</sup> /s) <sup>5</sup>	Mass Discharge (mg/s)		
				Total Attachment C <sup>2</sup>	Total Table 3+ (17 compounds) <sup>3</sup>	Total Table 3+ (20 compounds)			Total Attachment C <sup>2</sup>	Total Table 3+ (17 compounds) <sup>3</sup>	Total Table 3+ (20 compounds)
2020 Q4	CFR-TARHEEL-24-120720	12/7/20 23:01	24	25	25	40	899,500,000	--	7.4	7.2	12
2020 Q4	CFR-TARHEEL-24-121020	12/10/20 23:01	24	29	29	29	756,860,000	--	7.2	7.3	7.3
2020 Q4	CFR-TARHEEL-24-121320	12/13/20 23:01	24	43	43	60	427,890,000	--	6	6.1	8.4
2020 Q4	CFR-TARHEEL-12-121420	12/14/20 11:59	11	48	48	66	187,550,000	--	6.4	6.5	8.8
2020 Q4	CAP1220-TARHEEL-121620	12/15/20 16:11	0	70	74	84	--	6,270	12	13	15
2020 Q4	CFR-TARHEEL-121720	12/17/20 12:29	0	13	13	20	--	14,200	5.2	5.2	8
2020 Q4	CFR-TARHEEL-122120	12/21/20 13:52	0	18	18	24	--	14,000	7.1	7.1	9.5
2020 Q4	CFR-TARHEEL-122320	12/23/20 9:30	0	7.1	7.1	10	--	14,400	2.9	2.9	4.1
2020 Q4	CFR-TARHEEL-122420	12/24/20 19:20	0	38	38	62	--	11,100	12	12	19
2020 Q4	CFR-TARHEEL-122820	12/28/20 15:00	0	5.5	5.5	7.5	--	18,500	2.9	2.9	3.9
2020 Q4	CFR-TARHEEL-123020	12/30/20 10:56	0	21	21	34	--	14,500	8.6	8.6	14
2021 Q1	CFR-TARHEEL-010621	1/6/21 12:10	0	9.3	9.3	9.3	--	19,900	5.2	5.2	5.2
2021 Q1	CFR-TARHEEL-010721	1/7/21 11:00	0	7	7	7	--	18,900	3.7	3.7	3.7
2021 Q1	CFR-TARHEEL-011121	1/11/21 10:30	0	24	24	31	--	14,600	9.9	9.9	13
2021 Q1	CFR-TARHEEL-011421	1/14/21 12:40	0	42	42	51	--	7,500	8.9	8.9	11
2021 Q1	CFR-TARHEEL-24-012121	1/21/21 23:01	23	53	53	66	437,800,000	--	7.9	7.9	9.8
2021 Q1	CFR-TARHEEL-24-012221	1/22/21 23:01	23	55	55	70	419,760,000	--	7.9	8	10
2021 Q1	CAP0121-CFR-TARHEEL-012621	1/26/21 15:00	0	91	94	130	--	4,910	13	13	18
2021 Q1	CAP0121-CFR-TARHEEL-24-012721	1/27/21 15:10	23	67	67	88	627,500,000	--	14	14	19
2021 Q1	CFR-TARHEEL-24-012721	1/27/21 23:01	23	58	58	74	753,130,000	--	15	15	19
2021 Q1	CFR-TARHEEL-24-012821	1/28/21 23:01	23	44	44	55	1,059,400,000	--	16	16	20
2021 Q1	CFR-TARHEEL-020121	2/1/21 10:05	0	32	32	35	--	14,800	13	13	15
2021 Q1	CFR-TARHEEL-020421	2/4/21 16:35	0	19	19	24	--	18,200	9.8	9.8	12
2021 Q1	CFR-TARHEEL-020821	2/8/21 16:00	0	0	0	0	--	17,900	0	0	0
2021 Q1	CFR-TARHEEL-38-021221	2/12/21 14:01	38	62	62	73	1,164,200,000	--	15	15	18
2021 Q1	CFR-TARHEEL-021621	2/16/21 12:00	0	22	22	22	--	25,000	16	16	16
2021 Q1	CFR-TARHEEL-021921	2/19/21 13:35	0	38	38	46	--	24,200	26	26	32
2021 Q1	CFR-TARHEEL-022221	2/22/21 9:35	0	36	36	48	--	18,900	19	19	26
2021 Q1	CAP0221-CFR-TARHEEL-022421	2/24/21 15:15	0	26	26	34	--	16,900	12	12	16
2021 Q1	CFR-TARHEEL-022521	2/25/21 12:20	0	30	30	36	--	16,200	14	14	17
2021 Q1	CFR-TARHEEL-24-030521	3/5/21 23:01	23	22	22	34	1,481,400,000	--	11	11	17
2021 Q1	CFR-TARHEEL-24-030621	3/6/21 23:01	23	44	44	54	1,453,200,000	--	22	22	27
2021 Q1	CFR-TARHEEL-24-030821	3/8/21 23:01	23	22	22	28	1,345,800,000	--	10	10	13
2021 Q1	CFR-TARHEEL-24-031121	3/11/21 23:01	23	49	49	58	899,120,000	--	15	15	18
2021 Q1	CFR-TARHEEL-24-031521	3/15/21 23:01	23	45	45	53	743,000,000	--	11	11	13
2021 Q1	CFR-TARHEEL-24-031821	3/18/21 23:01	23	34	34	41	1,064,300,000	--	12	12	15
2021 Q1	CFR-TARHEEL-24-032421	3/24/21 23:01	23	65	75	120	673,680,000	--	15	17	27
2021 Q1	CFR-TARHEEL-24-032521	3/25/21 23:01	23	69	72	79	663,150,000	--	16	16	18
2021 Q1	CAP0321-CFR-TARHEEL-032921	3/29/21 12:10	0	14	14	20	--	14,000	5.6	5.6	7.9
2021 Q1	CAP0321-CFR-TARHEEL-21-033021	3/30/21 8:50	20	11	11	20	1,082,200,000	--	4.7	4.6	8.6
2021 Q1	CFR-TARHEEL-24-032921	3/29/21 23:01	23	16	16	20	1,181,300,000	--	6.5	6.5	8.1
2021 Q1	CFR-TARHEEL-24-033121	3/31/21 23:01	23	15	15	18	1,391,600,000	--	7.1	6.9	8.4
2021 Q1	CFR-TARHEEL-24-033121-D	3/31/21 23:01	23	15	15	18	1,391,600,000	--	7.1	7.2	8.7
2021 Q2	CFR-TARHEEL-24-040521	4/5/21 23:01	23	190	190	260	392,480,000	--	26	26	35
2021 Q2	CFR-TARHEEL-24-040721	4/7/21 23:01	23	86	86	110	367,660,000	--	11	11	13

**TABLE B4**  
**SUMMARY OF TOTAL PFAS MASS DISCHARGE AT TAR HEEL FERRY ROAD BRIDGE - HISTORICAL DATA**  
**Chemours Fayetteville Works, North Carolina**

Quarter	Field Sample ID	Collection Date	Hours Composited <sup>1</sup>	Concentrations (ng/L)			Total Volume (ft <sup>3</sup> ) <sup>4</sup>	Instantaneous Flow Rate (ft <sup>3</sup> /s) <sup>5</sup>	Mass Discharge (mg/s)		
				Total Attachment C <sup>2</sup>	Total Table 3+ (17 compounds) <sup>3</sup>	Total Table 3+ (20 compounds)			Total Attachment C <sup>2</sup>	Total Table 3+ (17 compounds) <sup>3</sup>	Total Table 3+ (20 compounds)
2021 Q2	CFR-TARHEEL-24-041221	4/12/21 23:01	23	72	72	100	488,770,000	--	12	12	17
2021 Q2	CFR-TARHEEL-24-041521	4/15/21 23:01	23	67	67	81	406,130,000	--	9.3	9.3	11
2021 Q2	CFR-TARHEEL-24-041821	4/18/21 23:01	23	110	110	140	278,500,000	--	10	10	14
2021 Q2	CFR-TARHEEL-24-041921	4/19/21 23:01	23	220	220	270	273,440,000	--	21	21	25
2021 Q2	CAP0421-CFR-TARHEEL-042021	4/20/21 15:00	0	110	110	140	--	2,900	9	9	11
2021 Q2	CAP0421-CFR-TARHEEL-5-042121	4/21/21 14:48	4	160	160	210	31,230,000	--	9.8	9.8	13
2021 Q2	CAP0421-CFR-TARHEEL-24-042221	4/22/21 13:20	23	140	140	530	173,560,000	--	8.3	8.6	31
2021 Q2	CFR-TARHEEL-042721	4/27/21 19:10	0	150	150	200	--	1,960	8.3	8.3	11
2021 Q2	CFR-TARHEEL-24-042821	4/28/21 23:01	23	120	130	160	176,990,000	--	7.3	7.7	9.8
2021 Q2	CFR-TARHEEL-24-050321	5/3/21 23:01	23	100	110	150	180,910,000	--	6.2	7	9.5
2021 Q2	CFR-TARHEEL-24-050621	5/6/21 23:01	0	130	130	170	--	1,800	6.6	6.6	8.7
2021 Q2	CFR-TARHEEL-24-051021	5/10/21 23:01	23	81	89	120	278,580,000	--	7.7	8.5	12
2021 Q2	CFR-TARHEEL-24-051221	5/12/21 23:01	23	89	94	130	196,480,000	--	6	6.3	8.7
2021 Q2	CFR-TARHEEL-24-051721	5/17/21 23:01	23	110	110	140	142,160,000	--	5.3	5.4	7
2021 Q2	CFR-TARHEEL-24-052021	5/20/21 23:01	23	120	130	170	119,300,000	--	4.9	5.3	6.8
2021 Q2	CFR-TARHEEL-24-052421	5/24/21 23:01	23	150	160	190	94,680,000	--	4.9	5	6.3
2021 Q2	CAP0521-CFR-TARHEEL-052621	5/26/21 11:25	0	91	95	95	--	1,240	3.2	3.3	3.3
2021 Q2	CAP0521-CFR-TARHEEL-24-052721	5/27/21 13:18	23	140	150	190	102,510,000	--	4.9	5.2	6.7
2021 Q2	CFR-TARHEEL-24-052721	5/27/21 23:01	23	160	160	200	102,250,000	--	5.6	5.7	7
2021 Q2	CFR-TARHEEL-24-060221	6/2/21 23:01	23	130	130	170	107,500,000	--	4.8	4.9	6.1
2021 Q2	CFR-TARHEEL-24-060321	6/3/21 23:01	23	290	290	380	137,160,000	--	14	14	18
2021 Q2	CFR-TARHEEL-24-060721	6/7/21 23:01	23	81	87	120	274,270,000	--	7.6	8.1	11
2021 Q2	CFR-TARHEEL-24-061221	6/12/21 23:01	23	180	180	230	313,600,000	--	19	19	25
2021 Q2	CFR-TARHEEL-24-061521	6/15/21 23:01	23	59	59	65	361,400,000	--	7.3	7.3	8
2021 Q2	CAP0621-CFR-TARHEEL-24-061621	6/16/21 14:35	23	55	55	60	387,600,000	--	7.3	7.3	7.9
2021 Q2	CFR-TARHEEL-24-061721	6/17/21 23:01	23	57	57	62	327,900,000	--	6.4	6.4	6.9
2021 Q2	CFR-TARHEEL-24-062221	6/22/21 23:01	23	77	77	77	230,950,000	--	6.1	6.1	6.1
2021 Q2	CFR-TARHEEL-24-062421	6/24/21 23:01	23	79	87	120	228,790,000	--	6.2	6.8	9.5
2021 Q3	CFR-TARHEEL-24-070121	7/1/21 11:35	0	82	87	93	--	1,640	3.8	4	4.3
2021 Q3	CFR-TARHEEL-24-070221	7/2/21 23:01	24	83	88	96	124,800,000	--	3.5	3.8	4.1
2021 Q3	CFR-TARHEEL-24-070721	7/7/21 23:01	24	72	80	120	137,900,000	--	3.4	3.8	5.4
2021 Q3	CFR-TARHEEL-24-070821	7/8/21 23:01	24	110	110	120	181,570,000	--	6.8	6.9	7.2
2021 Q3	CFR-TARHEEL-24-071221	7/12/21 23:01	24	37	37	44	668,550,000	--	8.5	8.4	10
2021 Q3	CFR-TARHEEL-24-071221-D	7/12/21 23:01	24	45	45	57	668,550,000	--	10	10	13
2021 Q3	CFR-TARHEEL-24-071521	7/15/21 23:01	24	57	57	62	259,060,000	--	5	5.1	5.5
2021 Q3	CFR-TARHEEL-24-071921	7/19/21 23:01	24	61	65	91	169,240,000	--	3.5	3.8	5.3
2021 Q3	CFR-TARHEEL-24-072221	7/22/21 23:01	24	51	51	72	640,080,000	--	11	11	16
2021 Q3	CFR-TARHEEL-24-072621	7/26/21 23:01	24	65	65	67	146,850,000	--	3.3	3.3	3.4
2021 Q3	CAP0721-CFR-TARHEEL-072821	7/28/21 8:50	0	46	50	54	--	4,220	5.5	6	6.5
2021 Q3	CAP0721-CFR-TARHEEL-24-072821	7/29/21 16:45	24	60	65	79	228,820,000	--	4.7	5.1	6.2
2021 Q3	CFR-TARHEEL-24-072921	7/29/21 23:01	24	52	56	69	215,360,000	--	3.8	4.1	5.1
2021 Q3	CFR-TARHEEL-24-080221	8/2/21 23:01	24	100	110	150	126,600,000	--	4.3	4.7	6.3
2021 Q3	CFR-TARHEEL-24-080521	8/5/21 23:01	24	120	130	190	116,320,000	--	4.8	5.1	7.4
2021 Q3	CFR-TARHEEL-24-081221	8/12/21 23:01	24	93	100	120	132,270,000	--	4.2	4.6	5.2
2021 Q3	CFR-TARHEEL-24-081221-DUP	8/12/21 23:01	24	90	99	110	132,270,000	--	4.1	4.5	5

TABLE B4

**SUMMARY OF TOTAL PFAS MASS DISCHARGE AT TAR HEEL FERRY ROAD BRIDGE - HISTORICAL DATA**  
**Chemours Fayetteville Works, North Carolina**

Quarter	Field Sample ID	Collection Date	Hours Composited <sup>1</sup>	Concentrations (ng/L)			Total Volume (ft <sup>3</sup> ) <sup>4</sup>	Instantaneous Flow Rate (ft <sup>3</sup> /s) <sup>5</sup>	Mass Discharge (mg/s)		
				Total Attachment C <sup>2</sup>	Total Table 3+ (17 compounds) <sup>3</sup>	Total Table 3+ (20 compounds)			Total Attachment C <sup>2</sup>	Total Table 3+ (17 compounds) <sup>3</sup>	Total Table 3+ (20 compounds)
2021 Q3	CFR-TARHEEL-24-081321	8/13/21 23:01	24	80	90	100	126,200,000	--	3.5	3.9	4.5
2021 Q3	CFR-TARHEEL-24-081621	8/16/21 23:01	24	75	78	100	97,749,000	--	2.5	2.6	3.3
2021 Q3	CAP0821-CFR-TARHEEL-081921	8/19/21 9:50	0	82	89	110	--	2,270	5.3	5.7	7.1
2021 Q3	CFR-TARHEEL-24-081921	8/19/21 23:01	24	74	82	120	209,910,000	--	5.3	5.9	8.7
2021 Q3	CAP0821-CFR-TARHEEL-24-082021	8/20/21 7:30	24	67	67	67	235,200,000	--	5.4	5.4	5.4
2021 Q3	CFR-TARHEEL-24-082321	8/23/21 23:01	24	37	40	44	285,630,000	--	3.6	3.9	4.3
2021 Q3	CFR-TARHEEL-24-082621	8/26/21 23:01	24	47	50	56	222,410,000	--	3.6	3.8	4.3
2021 Q3	CFR-TARHEEL-24-082921	8/29/21 23:01	24	43	46	57	108,020,000	--	1.6	1.7	2.1
2021 Q3	CFR-TARHEEL-24-090221	9/2/21 23:01	24	53	57	68	85,428,000	--	1.5	1.7	2
2021 Q3	CFR-TARHEEL-24-090621	9/6/21 23:01	24	72	78	84	83,450,000	--	2.1	2.2	2.4
2021 Q3	CFR-TARHEEL-24-090921	9/9/21 23:01	24	69	76	81	89,111,000	--	2.1	2.3	2.5
2021 Q3	CFR-TARHEEL-24-091321	9/13/21 23:01	24	66	77	97	111,290,000	--	2.5	2.9	3.7
2021 Q3	CFR-TARHEEL-24-091321-D	9/13/21 23:01	24	65	76	97	111,290,000	--	2.5	2.9	3.7
2021 Q3	CAP0921-CFR-TARHEEL-091521	9/15/21 9:00	0	100	110	140	--	1,120	3.2	3.5	4.4
2021 Q3	CAP0921-CFR-TARHEEL-24-091521	9/15/21 20:36	24	93	100	130	89,199,000	--	2.8	3.2	3.9
2021 Q3	CFR-TARHEEL-24-091621	9/16/21 23:01	24	96	110	140	83,187,000	--	2.7	3.1	3.9
2021 Q3	CFR-TARHEEL-24-092021	9/20/21 23:01	24	82	87	100	85,527,000	--	2.4	2.5	2.9
2021 Q3	CFR-TARHEEL-24-092121	9/21/21 23:01	24	83	87	97	82,235,000	--	2.3	2.4	2.7
2021 Q3	CFR-TARHEEL-24-092721	9/27/21 23:01	24	48	48	62	183,640,000	--	3	3	3.9
2021 Q3	CFR-TARHEEL-24-093021	9/30/21 23:01	24	88	91	110	83,770,000	--	2.5	2.6	3.2
2021 Q4	CFR-TARHEEL-24-100421	10/4/21 23:01	24	80	83	93	68,901,000	--	1.9	1.9	2.2
2021 Q4	CFR-TARHEEL-24-100721	10/7/21 23:01	24	79	85	110	85,113,000	--	2.3	2.5	3.1
2021 Q4	CFR-TARHEEL-24-101121	10/11/21 23:01	24	18	24	35	601,050,000	--	3.7	4.8	7.2
2021 Q4	CFR-TARHEEL-24-101121-D	10/11/21 23:01	24	18	23	28	601,050,000	--	3.7	4.8	5.8
2021 Q4	CFR-TARHEEL-24-101521	10/15/21 23:01	24	51	51	56	101,950,000	--	1.8	1.8	2
2021 Q4	CFR-TARHEEL-24-101821	10/18/21 23:01	24	72	74	82	79,027,000	--	1.9	2	2.2
2021 Q4	CAP1021-CFR-TARHEEL-102021	10/20/21 11:50	0	80	86	110	--	927	2.1	2.3	2.9
2021 Q4	CAP1021-CFR-TARHEEL-24-102121	10/21/21 15:24	24	87	94	120	74,380,000	--	2.2	2.4	3.1
2021 Q4	CFR-TARHEEL-24-102121	10/21/21 23:01	24	87	93	120	73,328,000	--	2.2	2.3	3
2021 Q4	CFR-TARHEEL-24-102521	10/25/21 23:01	24	81	88	97	74,909,000	--	2.1	2.3	2.5
2021 Q4	CFR-TARHEEL-24-102821	10/28/21 23:01	24	72	78	86	76,447,000	--	1.9	2	2.2
2021 Q4	CFR-TARHEEL-24-110121	11/1/21 23:01	24	72	77	89	96,246,000	--	2.4	2.5	2.9
2021 Q4	CFR-TARHEEL-24-110421	11/4/21 23:01	24	72	79	90	83,907,000	--	2.1	2.3	2.6
2021 Q4	CFR-TARHEEL-24-110821	11/8/21 23:01	24	77	84	110	78,491,000	--	2.1	2.3	2.8
2021 Q4	CFR-TARHEEL-24-110821-D	11/8/21 23:01	24	74	81	97	78,491,000	--	2	2.2	2.6
2021 Q4	CAP1121-CFR-TARHEEL-111021	11/10/21 10:50	0	79	85	92	--	935	2.1	2.3	2.4
2021 Q4	CAP1121-CFR-TARHEEL-24-111121	11/11/21 15:36	24	78	84	92	75,278,000	--	2	2.2	2.4
2021 Q4	CFR-TARHEEL-24-111121	11/11/21 23:01	24	79	85	93	78,075,000	--	2.1	2.3	2.5
2021 Q4	CFR-TARHEEL-24-111521	11/15/21 23:01	24	68	77	100	88,596,000	--	2.1	2.3	3
2021 Q4	FAY-CFR-TARHEEL-A-111521	11/15/21 12:55	0	68	76	90	--	1,070	2.1	2.3	2.7
2021 Q4	FAY-CFR-TARHEEL-B-111521	11/15/21 12:55	0	75	87	130	--	1,070	2.3	2.6	3.9
2021 Q4	FAY-CFR-TARHEEL-C-111521	11/15/21 12:55	0	60	70	87	--	1,070	1.8	2.1	2.6
2021 Q4	FAY-CFR-TARHEEL-D-111521	11/15/21 12:55	0	95	100	140	--	1,070	2.9	3	4.2
2021 Q4	CFR-TARHEEL-24-111821	11/18/21 23:01	24	94	100	120	78,418,000	--	2.5	2.7	3.3
2021 Q4	CFR-TARHEEL-24-112221	11/22/21 23:01	24	62	68	73	78,739,000	--	1.7	1.8	2

**TABLE B4**  
**SUMMARY OF TOTAL PFAS MASS DISCHARGE AT TAR HEEL FERRY ROAD BRIDGE - HISTORICAL DATA**  
**Chemours Fayetteville Works, North Carolina**

Quarter	Field Sample ID	Collection Date	Hours Composited <sup>1</sup>	Concentrations (ng/L)			Total Volume (ft <sup>3</sup> ) <sup>4</sup>	Instantaneous Flow Rate (ft <sup>3</sup> /s) <sup>5</sup>	Mass Discharge (mg/s)		
				Total Attachment C <sup>2</sup>	Total Table 3+ (17 compounds) <sup>3</sup>	Total Table 3+ (20 compounds)			Total Attachment C <sup>2</sup>	Total Table 3+ (17 compounds) <sup>3</sup>	Total Table 3+ (20 compounds)
2021 Q4	CFR-TARHEEL-24-112521	11/25/21 23:01	24	61	68	80	94,320,000	--	2	2.2	2.6
2021 Q4	CFR-TARHEEL-24-112921	11/29/21 23:01	24	56	62	68	84,519,000	--	1.6	1.8	2
2021 Q4	CFR-TARHEEL-24-120221	12/2/21 23:01	24	65	65	71	82,065,000	--	1.8	1.8	2
2021 Q4	CFR-TARHEEL-24-120621	12/6/21 23:01	24	64	64	71	76,519,000	--	1.7	1.7	1.9
2021 Q4	CFR-TARHEEL-24-120921	12/9/21 23:01	24	120	120	130	137,040,000	--	5.6	5.4	6
2021 Q4	CFR-TARHEEL-24-121321	12/13/21 23:01	24	15	20	20	106,310,000	--	0.55	0.72	0.72
2021 Q4	CAP1221-CFR-TARHEEL-121521	12/15/21 10:35	0	32	42	51	--	1,100	1	1.3	1.6
2021 Q4	CAP1221-CFR-TARHEEL-24-121621	12/16/21 8:16	24	52	64	73	83,520,000	--	1.5	1.8	2.1
2021 Q4	CFR-TARHEEL-24-121621	12/16/21 23:01	24	56	68	68	83,268,000	--	1.6	1.9	1.9
2021 Q4	CFR-TARHEEL-24-122021	12/20/21 23:01	24	85	94	110	101,380,000	--	2.9	3.2	3.9
2021 Q4	CFR-TARHEEL-24-122321	12/23/21 23:01	24	47	58	80	181,610,000	--	2.9	3.6	5
2021 Q4	CFR-TARHEEL-24-122721	12/27/21 23:01	24	70	74	89	97,353,000	--	2.3	2.5	3
2021 Q4	CFR-TARHEEL-24-123021	12/30/21 23:01	24	73	76	87	83,511,000	--	2.1	2.2	2.5
2022 Q1	CFR-TARHEEL-24-010222	1/2/22 23:01	24	53	56	60	167,660,000	--	3	3.2	3.4
2022 Q1	CFR-TARHEEL-24-010322	1/3/22 23:01	24	95	99	120	292,270,000	--	9.5	9.9	12
2022 Q1	CFR-TARHEEL-24-011122	1/11/22 23:01	24	20	20	26	437,080,000	--	3	2.9	3.8
2022 Q1	CFR-TARHEEL-24-011322	1/13/22 23:01	24	8.4	8.4	13	511,580,000	--	1.5	1.5	2.2
2022 Q1	CFR-TARHEEL-24-011922	1/19/22 23:01	24	12	12	17	608,650,000	--	2.5	2.4	3.6
2022 Q1	CFR-TARHEEL-24-011922-D	1/19/22 23:01	24	12	12	15	608,650,000	--	2.5	2.6	3
2022 Q1	CFR-TARHEEL-15-012022	1/20/22 14:01	15	11	11	14	340,370,000	--	2.1	2.1	2.7
2022 Q1	CFR-TARHEEL-24-012522	1/25/22 23:01	24	7.9	7.9	7.9	597,640,000	--	1.6	1.6	1.6
2022 Q1	CAP1Q22-CFR-TARHEEL-012622	1/26/22 16:40	0	16	16	19	--	6,530	3	3	3.5
2022 Q1	CAP1Q22-CFR-TARHEEL-24-012722	1/27/22 11:54	24	16	18	21	517,630,000	--	2.8	3.2	3.8
2022 Q1	CFR-TARHEEL-24-012822	1/28/22 23:01	24	28	28	28	376,970,000	--	3.6	3.6	3.6
2022 Q1	CFR-TARHEEL-24-013122	1/31/22 23:01	24	40	43	45	207,860,000	--	2.8	3	3.2
2022 Q1	CFR-TARHEEL-24-020322	2/3/22 23:01	24	57	60	64	183,720,000	--	3.6	3.8	4
2022 Q1	CFR-TARHEEL-24-020722	2/7/22 23:01	24	30	34	36	342,840,000	--	3.5	4	4.2
2022 Q1	CFR-TARHEEL-24-020722-D	2/7/22 23:01	24	30	34	39	342,840,000	--	3.5	4	4.6
2022 Q1	CFR-TARHEEL-24-021122	2/11/22 23:01	24	13	13	13	458,340,000	--	2	2	2
2022 Q1	CFR-TARHEEL-24-021422	2/14/22 23:01	24	31	35	37	195,480,000	--	2.1	2.3	2.5
2022 Q1	CFR-TARHEEL-24-021822	2/18/22 23:01	24	5.6	5.6	5.6	167,220,000	--	0.32	0.32	0.32
2022 Q1	CFR-TARHEEL-24-022622	2/26/22 23:01	24	7	7	7	218,030,000	--	0.52	0.52	0.52
2022 Q1	CFR-TARHEEL-24-022722	2/27/22 23:01	24	3.8	3.8	3.8	311,400,000	--	0.4	0.4	0.4
2022 Q1	CFR-TARHEEL-24-022822	2/28/22 23:01	24	0	0	0	361,320,000	--	0	0	0
2022 Q1	CFR-TARHEEL-24-030322	3/3/22 23:01	24	6.8	12	31	377,850,000	--	0.88	1.5	4
2022 Q1	CFR-TARHEEL-24-030722	3/7/22 23:01	24	28	34	52	135,670,000	--	1.3	1.6	2.4
2022 Q1	CFR-TARHEEL-24-031022	3/10/22 23:01	24	41	48	66	147,190,000	--	2.1	2.4	3.3
2022 Q1	CFR-TARHEEL-24-031022-D	3/10/22 23:01	24	43	50	69	147,190,000	--	2.2	2.5	3.5
2022 Q1	CFR-TARHEEL-031722	3/17/22 12:30	0	4.7	4.7	4.7	--	11,100	1.5	1.5	1.5
2022 Q1	CFR-TARHEEL-031822	3/18/22 9:00	0	0	0	0	--	24,800	0	0	0
2022 Q1	CFR-TARHEEL-24-032322	3/23/22 8:10	24	17	17	17	847,430,000	--	4.9	4.9	4.9
2022 Q1	CFR-TARHEEL-032422	3/24/22 13:05	0	9.4	9.4	9.4	--	7,680	2	2	2
2022 Q1	CFR-TARHEEL-24-032922	3/29/22 23:01	24	8	8	8	662,420,000	--	1.8	1.8	1.8
2022 Q1	CFR-TARHEEL-24-033122	3/31/22 23:01	24	9.8	9.8	9.8	419,860,000	--	1.4	1.4	1.4
2022 Q2	CFR-TARHEEL-24-040422	4/4/22 23:01	24	5.9	5.9	5.9	561,470,000	--	1.1	1.1	1.1

**TABLE B4**  
**SUMMARY OF TOTAL PFAS MASS DISCHARGE AT TAR HEEL FERRY ROAD BRIDGE - HISTORICAL DATA**  
**Chemours Fayetteville Works, North Carolina**

Quarter	Field Sample ID	Collection Date	Hours Composited <sup>1</sup>	Concentrations (ng/L)			Total Volume (ft <sup>3</sup> ) <sup>4</sup>	Instantaneous Flow Rate (ft <sup>3</sup> /s) <sup>5</sup>	Mass Discharge (mg/s)		
				Total Attachment C <sup>2</sup>	Total Table 3+ (17 compounds) <sup>3</sup>	Total Table 3+ (20 compounds)			Total Attachment C <sup>2</sup>	Total Table 3+ (17 compounds) <sup>3</sup>	Total Table 3+ (20 compounds)
2022 Q2	CFR-TARHEEL-24-040722	4/7/22 23:01	24	18	18	29	564,760,000	--	3.5	3.4	5.6
2022 Q2	CFR-TARHEEL-24-041122	4/11/22 23:01	24	32	34	38	273,800,000	--	3	3.2	3.6
2022 Q2	CFR-TARHEEL-24-041122-D	4/11/22 23:01	24	31	34	39	273,800,000	--	2.9	3.1	3.6
2022 Q2	CFR-TARHEEL-24-041522	4/15/22 23:01	24	12	14	14	166,400,000	--	0.68	0.82	0.82
2022 Q2	CAP2Q22-CFR-TARHEEL-041922	4/19/22 17:05	0	27	32	38	--	2,540	1.9	2.3	2.7
2022 Q2	CAP2Q22-CFR-TARHEEL-24-042022	4/20/22 16:33	24	35	46	85	837,200,000	--	10	13	24
2022 Q2	CFR-TARHEEL-24-042122	4/21/22 23:01	24	0	0	0	1,227,100,000	--	0	0	0
2022 Q2	CFR-TARHEEL-24-042222	4/22/22 23:01	24	2.1	2.1	2.1	809,240,000	--	0.58	0.58	0.58
2022 Q2	CFR-TARHEEL-24-042522	4/25/22 23:01	24	23	27	27	187,090,000	--	1.5	1.7	1.7
2022 Q2	CFR-TARHEEL-24-042822	4/28/22 23:01	24	24	29	32	220,240,000	--	1.8	2.2	2.4
2022 Q2	CFR-TARHEEL-24-050222	5/2/22 23:01	24	49	55	59	125,950,000	--	2.1	2.4	2.5
2022 Q2	CFR-TARHEEL-24-050522	5/5/22 23:01	24	37	45	51	137,440,000	--	1.7	2.1	2.4
2022 Q2	CFR-TARHEEL-24-050922	5/9/22 23:01	24	34	42	49	187,310,000	--	2.2	2.7	3.2
2022 Q2	CFR-TARHEEL-24-050922-D	5/9/22 23:01	24	30	37	44	187,310,000	--	1.9	2.4	2.8
2022 Q2	CFR-TARHEEL-24-051322	5/13/22 23:01	24	29	32	37	155,980,000	--	1.5	1.7	2
2022 Q2	CFR-TARHEEL-24-051622	5/16/22 23:01	24	28	32	41	172,570,000	--	1.7	1.9	2.4
2022 Q2	CFR-TARHEEL-24-051922	5/19/22 23:01	24	27	33	45	126,950,000	--	1.2	1.4	1.9
2022 Q2	CFR-TARHEEL-24-052322	5/23/22 23:01	24	44	48	58	89,865,000	--	1.4	1.5	1.8
2022 Q2	CFR-TARHEEL-24-052622	5/26/22 23:01	24	16	22	26	268,770,000	--	1.5	2	2.4
2022 Q2	CFR-TARHEEL-24-053022	5/30/22 23:01	24	0	0	0	746,410,000	--	0	0	0
2022 Q2	CFR-TARHEEL-24-060222	6/2/22 23:01	24	16	19	19	153,160,000	--	0.84	1	1
2022 Q2	CFR-TARHEEL-24-060622	6/6/22 23:01	24	42	45	52	79,617,000	--	1.1	1.2	1.4
2022 Q2	CFR-TARHEEL-24-060622-D	6/6/22 23:01	24	62	66	74	79,617,000	--	1.7	1.8	2
2022 Q2	CFR-TARHEEL-24-060922	6/9/22 23:01	24	48	51	56	83,832,000	--	1.4	1.5	1.6
2022 Q2	CFR-TARHEEL-24-061322	6/13/22 23:01	24	41	48	55	106,100,000	--	1.5	1.8	2
2022 Q2	CFR-TARHEEL-24-061622	6/16/22 23:01	24	43	51	60	87,219,000	--	1.3	1.5	1.8
2022 Q2	CFR-TARHEEL-24-062022	6/20/22 23:01	24	47	47	47	83,621,000	--	1.3	1.3	1.3
2022 Q2	CFR-TARHEEL-24-062322	6/23/22 23:01	24	41	41	41	76,294,000	--	1.1	1.1	1.1
2022 Q2	CFR-TARHEEL-24-062722	6/27/22 23:01	24	50	61	69	69,996,000	--	1.2	1.5	1.6
2022 Q2	CFR-TARHEEL-24-063022	6/30/22 23:01	24	52	60	69	87,431,000	--	1.6	1.8	2.1

**Notes:**

- 1 - Samples with a compositing duration of zero (0) hours are grab samples.
- 2 - Total Attachment C does not include Perfluoroheptanoic acid (PFHpA).
- 3 - Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, and R-EVE.
- 4 - Total flow volume is determined based on measurements taken over the sample collection period.
- 5 - For samples with a duration of zero (0) hours, i.e., grab samples, the instantaneous flow rate was used to calculate the mass discharge.

-- - not applicable  
 ng/L - nanograms per liter  
 ft<sup>3</sup> - cubic feet  
 mg/s - milligrams per second  
 ft<sup>3</sup>/s - cubic feet per second

**TABLE B5  
FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC  
Chemours Fayetteville Works, North Carolina**

Q2 2022 Monthly Event	Pathway/ Location	Sample Collection Timepoint	Flow Gauging Location <sup>1</sup>	Travel Time Offset (hr) <sup>2</sup>	Adjusted Flow Gauging Timepoint	Composite Sample 24- Hour Flow Volume (MGD) <sup>3</sup>	Grab Sample Instantaneous Flow Rate (ft <sup>3</sup> /s) <sup>4</sup>
April 2022	Upstream River Water and Groundwater	04/19/22 10:30	William O Huske Lock and Dam	--	04/19/22 10:30	--	2,620
	Tarheel (Composite Sample)	04/20/22 16:33	William O Huske Lock and Dam	7	04/20/22 13:45	6,370	--
	Tarheel (Grab Sample)	04/19/22 17:05	William O Huske Lock and Dam	7	04/19/22 09:45	--	2,540
	Bladen Bluff	04/19/22 15:30	William O Huske Lock and Dam	5	04/19/22 10:45	--	2,660
	Kings Bluff	04/21/22 11:45	Cape Fear River Lock and Dam #1	--	04/21/22 11:45	--	11,900

**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:**

- ft<sup>3</sup>/s - cubic feet per second
- hr - hours
- MGD - millions of gallons per day

**TABLE B6**  
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC**  
**Chemours Fayetteville Works, North Carolina**

<b>Date and Time</b>	<b>Flow Rate (ft<sup>3</sup>/sec)</b>	<b>Flow Volume (gal)</b>	<b>Gage Height (ft)</b>	<b>Precipitation (in)<sup>1</sup></b>
04/19/22 0:00	1,990	13,397,575	2.09	0
04/19/22 0:15	1,990	13,397,576	2.09	0
04/19/22 0:30	2,000	13,464,900	2.10	0
04/19/22 0:45	2,000	13,464,900	2.10	0
04/19/22 1:00	2,020	13,599,549	2.11	0
04/19/22 1:15	2,020	13,599,549	2.11	0
04/19/22 1:30	2,020	13,599,549	2.11	0
04/19/22 1:45	2,030	13,666,874	2.12	0
04/19/22 2:00	2,050	13,801,522	2.13	0
04/19/22 2:15	2,050	13,801,522	2.13	0
04/19/22 2:30	2,060	13,868,847	2.14	0
04/19/22 2:45	2,080	14,003,496	2.15	0
04/19/22 3:00	2,080	14,003,496	2.15	0
04/19/22 3:15	2,100	14,138,145	2.16	0
04/19/22 3:30	2,100	14,138,145	2.16	0
04/19/22 3:45	2,110	14,205,469	2.17	0
04/19/22 4:00	2,130	14,340,119	2.18	0
04/19/22 4:15	2,130	14,340,118	2.18	0
04/19/22 4:30	2,140	14,407,443	2.19	0
04/19/22 4:45	2,160	14,542,092	2.20	0
04/19/22 5:00	2,170	14,609,416	2.21	0
04/19/22 5:15	2,190	14,744,065	2.22	0
04/19/22 5:30	2,210	14,878,715	2.23	0
04/19/22 5:45	2,210	14,878,714	2.23	0
04/19/22 6:00	2,220	14,946,039	2.24	0
04/19/22 6:15	2,250	15,148,013	2.26	0
04/19/22 6:30	2,270	15,282,661	2.27	0
04/19/22 6:45	2,290	15,417,310	2.28	0
04/19/22 7:00	2,300	15,484,635	2.29	0
04/19/22 7:15	2,320	15,619,284	2.30	0
04/19/22 7:30	2,340	15,753,933	2.31	0
04/19/22 7:45	2,350	15,821,258	2.32	0
04/19/22 8:00	2,370	15,955,906	2.33	0
04/19/22 8:15	2,400	16,157,880	2.35	0
04/19/22 8:30	2,420	16,292,529	2.36	0
04/19/22 8:45	2,440	16,427,178	2.37	0
04/19/22 9:00	2,450	16,494,502	2.38	0
04/19/22 9:15	2,490	16,763,801	2.40	0
04/19/22 9:30	2,500	16,831,125	2.41	0
04/19/22 9:45	2,540	17,100,423	2.43	0
04/19/22 10:00	2,570	17,302,397	2.45	0
04/19/22 10:15	2,590	17,437,045	2.46	0
04/19/22 10:30	2,620	17,639,019	2.48	0
04/19/22 10:45	2,660	17,908,317	2.50	0
04/19/22 11:00	2,680	18,042,966	2.51	0
04/19/22 11:15	2,700	18,177,615	2.52	0
04/19/22 11:30	2,730	18,379,589	2.54	0
04/19/22 11:45	2,790	18,783,535	2.57	0
04/19/22 12:00	2,820	18,985,509	2.59	0
04/19/22 12:15	2,840	19,120,158	2.60	0
04/19/22 12:30	2,900	19,524,105	2.63	0



**TABLE B6**  
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC**  
**Chemours Fayetteville Works, North Carolina**

<b>Date and Time</b>	<b>Flow Rate (ft<sup>3</sup>/sec)</b>	<b>Flow Volume (gal)</b>	<b>Gage Height (ft)</b>	<b>Precipitation (in)<sup>1</sup></b>
04/19/22 12:45	2,930	19,726,078	2.65	0
04/19/22 13:00	2,950	19,860,728	2.66	0
04/19/22 13:15	3,010	20,264,674	2.69	0
04/19/22 13:30	3,070	20,668,621	2.72	0
04/19/22 13:45	3,130	21,072,569	2.75	0
04/19/22 14:00	3,180	21,409,191	2.78	0
04/19/22 14:15	3,240	21,813,138	2.81	0
04/19/22 14:30	3,280	22,082,436	2.83	0
04/19/22 14:45	3,380	22,755,681	2.88	0
04/19/22 15:00	3,470	23,361,601	2.92	0
04/19/22 15:15	3,510	23,630,900	2.94	0
04/19/22 15:30	3,630	24,438,793	3.00	0
04/19/22 15:45	3,700	24,910,065	3.03	0
04/19/22 16:00	3,800	25,583,310	3.08	0
04/19/22 16:15	3,910	26,323,879	3.13	0
04/19/22 16:30	4,020	27,064,449	3.18	0
04/19/22 16:45	4,110	27,670,370	3.22	0
04/19/22 17:00	4,200	28,276,290	3.26	0
04/19/22 17:15	4,340	29,218,833	3.32	0
04/19/22 17:30	4,450	29,959,403	3.37	0
04/19/22 17:45	4,570	30,767,296	3.42	0
04/19/22 18:00	4,690	31,575,190	3.47	0
04/19/22 18:15	4,810	32,383,085	3.52	0
04/19/22 18:30	4,960	33,392,952	3.58	0
04/19/22 18:45	5,090	34,268,170	3.63	0
04/19/22 19:00	5,190	34,941,416	3.67	0
04/19/22 19:15	5,350	36,018,607	3.73	0
04/19/22 19:30	5,480	36,893,826	3.78	0
04/19/22 19:45	5,640	37,971,018	3.84	0
04/19/22 20:00	5,770	38,846,236	3.89	0
04/19/22 20:15	5,910	39,788,779	3.94	0
04/19/22 20:30	6,080	40,933,296	4.00	0
04/19/22 20:45	6,220	41,875,839	4.05	0
04/19/22 21:00	6,360	42,818,382	4.10	0
04/19/22 21:15	6,510	43,828,250	4.15	0
04/19/22 21:30	6,680	44,972,766	4.21	0
04/19/22 21:45	6,830	45,982,633	4.26	0
04/19/22 22:00	6,970	46,925,177	4.31	0
04/19/22 22:15	7,100	47,800,395	4.36	0
04/19/22 22:30	7,270	48,944,911	4.42	0
04/19/22 22:45	7,420	49,954,779	4.47	0
04/19/22 23:00	7,560	50,897,322	4.52	0
04/19/22 23:15	7,730	52,041,838	4.58	0
04/19/22 23:30	7,880	53,051,706	4.63	0
04/19/22 23:45	8,030	54,061,573	4.68	0
04/20/22 0:00	8,210	55,273,414	4.74	0
04/20/22 0:15	8,360	56,283,282	4.79	0
04/20/22 0:30	8,550	57,562,447	4.85	0
04/20/22 0:45	8,700	58,572,315	4.90	0
04/20/22 1:00	8,850	59,582,183	4.95	0
04/20/22 1:15	9,030	60,794,023	5.01	0

**TABLE B6**  
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC**  
**Chemours Fayetteville Works, North Carolina**

<b>Date and Time</b>	<b>Flow Rate (ft<sup>3</sup>/sec)</b>	<b>Flow Volume (gal)</b>	<b>Gage Height (ft)</b>	<b>Precipitation (in)<sup>1</sup></b>
04/20/22 1:30	9,190	61,871,215	5.06	0
04/20/22 1:45	9,340	62,881,083	5.11	0
04/20/22 2:00	9,500	63,958,275	5.16	0
04/20/22 2:15	9,690	65,237,440	5.22	0
04/20/22 2:30	9,850	66,314,633	5.27	0
04/20/22 2:45	10,000	67,324,500	5.32	0
04/20/22 3:00	10,200	68,670,990	5.38	0
04/20/22 3:15	10,400	70,017,480	5.43	0
04/20/22 3:30	10,500	70,690,725	5.48	0
04/20/22 3:45	10,700	72,037,215	5.54	0
04/20/22 4:00	10,900	73,383,705	5.58	0
04/20/22 4:15	11,000	74,056,950	5.63	0
04/20/22 4:30	11,200	75,403,440	5.68	0
04/20/22 4:45	11,300	76,076,685	5.72	0
04/20/22 5:00	11,500	77,423,175	5.77	0
04/20/22 5:15	11,600	78,096,420	5.81	0
04/20/22 5:30	11,800	79,442,910	5.87	0
04/20/22 5:45	11,900	80,116,155	5.91	0
04/20/22 6:00	12,100	81,462,645	5.96	0
04/20/22 6:15	12,200	82,135,890	6.00	0
04/20/22 6:30	12,400	83,482,380	6.04	0
04/20/22 6:45	12,400	83,482,380	6.06	0
04/20/22 7:00	12,600	84,828,870	6.12	0
04/20/22 7:15	12,800	86,175,360	6.16	0
04/20/22 7:30	13,000	87,521,850	6.21	0
04/20/22 7:45	13,000	87,521,850	6.23	0
04/20/22 8:00	13,200	88,868,340	6.27	0
04/20/22 8:15	13,300	89,541,585	6.30	0
04/20/22 8:30	13,400	90,214,830	6.34	0
04/20/22 8:45	13,600	91,561,320	6.39	0
04/20/22 9:00	13,700	92,234,565	6.44	0
04/20/22 9:15	13,800	92,907,810	6.47	0
04/20/22 9:30	14,000	94,254,300	6.52	0
04/20/22 9:45	14,100	94,927,545	6.54	0
04/20/22 10:00	14,200	95,600,790	6.56	0
04/20/22 10:15	14,400	96,947,280	6.62	0
04/20/22 10:30	14,500	97,620,525	6.65	0
04/20/22 10:45	14,600	98,293,770	6.69	0
04/20/22 11:00	14,800	99,640,260	6.72	0
04/20/22 11:15	14,900	100,313,505	6.75	0
04/20/22 11:30	15,000	100,986,750	6.79	0
04/20/22 11:45	15,100	101,659,995	6.81	0
04/20/22 12:00	15,200	102,333,240	6.84	0
04/20/22 12:15	15,300	103,006,485	6.86	0
04/20/22 12:30	15,500	104,352,975	6.91	0
04/20/22 12:45	15,500	104,352,975	6.92	0
04/20/22 13:00	15,600	105,026,220	6.96	0
04/20/22 13:15	15,700	105,699,465	6.98	0
04/20/22 13:30	15,900	107,045,955	7.02	0
04/20/22 13:45	15,900	107,045,955	7.04	0
04/20/22 14:00	16,000	107,719,200	7.06	0

**TABLE B6**  
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC**  
**Chemours Fayetteville Works, North Carolina**

<b>Date and Time</b>	<b>Flow Rate (ft<sup>3</sup>/sec)</b>	<b>Flow Volume (gal)</b>	<b>Gage Height (ft)</b>	<b>Precipitation (in)<sup>1</sup></b>
04/20/22 14:15	16,100	108,392,445	7.09	0
04/20/22 14:30	16,200	109,065,690	7.11	0
04/20/22 14:45	16,300	109,738,935	7.13	0
04/20/22 15:00	16,300	109,738,935	7.14	0
04/20/22 15:15	16,400	110,412,180	7.17	0
04/20/22 15:30	16,500	111,085,425	7.20	0
04/20/22 15:45	16,600	111,758,670	7.22	0
04/20/22 16:00	16,700	112,431,915	7.24	0
04/20/22 16:15	16,800	113,105,160	7.27	0
04/20/22 16:30	16,800	113,105,160	7.29	0
04/20/22 16:45	16,900	113,778,405	7.31	0
04/20/22 17:00	16,800	113,105,160	7.31	0
04/20/22 17:15	16,800	113,105,160	7.33	0
04/20/22 17:30	16,800	113,105,160	7.34	0
04/20/22 17:45	16,900	113,778,405	7.38	0
04/20/22 18:00	16,900	113,778,405	7.41	0
04/20/22 18:15	16,800	113,105,160	7.42	0
04/20/22 18:30	16,700	112,431,915	7.43	0
04/20/22 18:45	16,800	113,105,160	7.46	0
04/20/22 19:00	16,700	112,431,915	7.46	0
04/20/22 19:15	16,600	111,758,670	7.48	0
04/20/22 19:30	16,700	112,431,915	7.50	0
04/20/22 19:45	16,600	111,758,670	7.50	0
04/20/22 20:00	16,700	112,431,915	7.53	0
04/20/22 20:15	16,500	111,085,425	7.52	0
04/20/22 20:30	16,400	110,412,180	7.54	0
04/20/22 20:45	16,500	111,085,425	7.55	0
04/20/22 21:00	16,300	109,738,935	7.55	0
04/20/22 21:15	16,300	109,738,935	7.57	0
04/20/22 21:30	16,400	110,412,180	7.58	0
04/20/22 21:45	16,400	110,412,180	7.60	0
04/20/22 22:00	16,300	109,738,935	7.60	0
04/20/22 22:15	16,300	109,738,935	7.60	0
04/20/22 22:30	16,300	109,738,935	7.62	0
04/20/22 22:45	16,100	108,392,445	7.61	0
04/20/22 23:00	16,100	108,392,445	7.62	0
04/20/22 23:15	16,000	107,719,200	7.61	0
04/20/22 23:30	16,100	108,392,445	7.62	0
04/20/22 23:45	16,100	108,392,445	7.63	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.

ft<sup>3</sup>/sec - cubic feet per second

ft - feet

gal - gallons

in - inches

USGS - United States Geological Survey

**TABLE B7  
FLOW DATA FOR LOCK #1 NR KELLY, NC  
Chemours Fayetteville Works, North Carolina**

Date	Time	Discharge (cubic ft/sec)	Seconds	Volume (gal)
04/21/22	12:00:00 AM	9,640	900	64,900,818
04/21/22	12:15:00 AM	9,720	900	65,439,414
04/21/22	12:30:00 AM	9,750	900	65,641,387
04/21/22	12:45:00 AM	9,830	900	66,179,983
04/21/22	1:00:00 AM	9,940	900	66,920,553
04/21/22	1:15:00 AM	9,940	900	66,920,553
04/21/22	1:30:00 AM	10,100	900	67,997,745
04/21/22	1:45:00 AM	10,100	900	67,997,745
04/21/22	2:00:00 AM	10,200	900	68,670,990
04/21/22	2:15:00 AM	10,200	900	68,670,990
04/21/22	2:30:00 AM	10,200	900	68,670,990
04/21/22	2:45:00 AM	10,300	900	69,344,235
04/21/22	3:00:00 AM	10,400	900	70,017,480
04/21/22	3:15:00 AM	10,500	900	70,690,725
04/21/22	3:30:00 AM	10,500	900	70,690,725
04/21/22	3:45:00 AM	10,600	900	71,363,970
04/21/22	4:00:00 AM	10,600	900	71,363,970
04/21/22	4:15:00 AM	10,700	900	72,037,215
04/21/22	4:30:00 AM	10,700	900	72,037,215
04/21/22	4:45:00 AM	10,800	900	72,710,460
04/21/22	5:00:00 AM	10,800	900	72,710,460
04/21/22	5:15:00 AM	10,900	900	73,383,705
04/21/22	5:30:00 AM	10,900	900	73,383,705
04/21/22	5:45:00 AM	11,000	900	74,056,950
04/21/22	6:00:00 AM	11,000	900	74,056,950
04/21/22	6:15:00 AM	11,100	900	74,730,195
04/21/22	6:30:00 AM	11,100	900	74,730,195
04/21/22	6:45:00 AM	11,100	900	74,730,195
04/21/22	7:00:00 AM	11,200	900	75,403,440
04/21/22	7:15:00 AM	11,200	900	75,403,440
04/21/22	7:30:00 AM	11,300	900	76,076,685
04/21/22	7:45:00 AM	11,300	900	76,076,685
04/21/22	8:00:00 AM	11,300	900	76,076,685
04/21/22	8:15:00 AM	11,400	900	76,749,930
04/21/22	8:30:00 AM	11,400	900	76,749,930
04/21/22	8:45:00 AM	11,500	900	77,423,175
04/21/22	9:00:00 AM	11,500	900	77,423,175
04/21/22	9:15:00 AM	11,500	900	77,423,175
04/21/22	9:30:00 AM	11,500	900	77,423,175
04/21/22	9:45:00 AM	11,500	900	77,423,175
04/21/22	10:00:00 AM	11,600	900	78,096,420
04/21/22	10:15:00 AM	11,700	900	78,769,665
04/21/22	10:30:00 AM	11,700	900	78,769,665
04/21/22	10:45:00 AM	11,700	900	78,769,665
04/21/22	11:00:00 AM	11,700	900	78,769,665
04/21/22	11:15:00 AM	11,800	900	79,442,910
04/21/22	11:30:00 AM	11,800	900	79,442,910
04/21/22	11:45:00 AM	11,900	900	80,116,155
04/21/22	12:00:00 PM	11,900	900	80,116,155
04/21/22	12:15:00 PM	11,900	900	80,116,155
04/21/22	12:30:00 PM	11,900	900	80,116,155
04/21/22	12:45:00 PM	11,900	900	80,116,155
04/21/22	1:00:00 PM	11,900	900	80,116,155
04/21/22	1:15:00 PM	12,000	900	80,789,400
04/21/22	1:30:00 PM	12,000	900	80,789,400
04/21/22	1:45:00 PM	12,000	900	80,789,400
04/21/22	2:00:00 PM	12,000	900	80,789,400
04/21/22	2:15:00 PM	12,100	900	81,462,645
04/21/22	2:30:00 PM	12,000	900	80,789,400

**TABLE B7**  
**FLOW DATA FOR LOCK #1 NR KELLY, NC**  
**Chemours Fayetteville Works, North Carolina**

Date	Time	Discharge (cubic ft/sec)	Seconds	Volume (gal)
04/21/22	2:45:00 PM	12,100	900	81,462,645
04/21/22	3:00:00 PM	12,100	900	81,462,645
04/21/22	3:15:00 PM	12,100	900	81,462,645
04/21/22	3:30:00 PM	12,100	900	81,462,645
04/21/22	3:45:00 PM	12,100	900	81,462,645
04/21/22	4:00:00 PM	12,200	900	82,135,890
04/21/22	4:15:00 PM	12,200	900	82,135,890
04/21/22	4:30:00 PM	12,200	900	82,135,890
04/21/22	4:45:00 PM	12,200	900	82,135,890
04/21/22	5:00:00 PM	12,300	900	82,809,135
04/21/22	5:15:00 PM	12,300	900	82,809,135
04/21/22	5:30:00 PM	12,200	900	82,135,890
04/21/22	5:45:00 PM	12,300	900	82,809,135
04/21/22	6:00:00 PM	12,400	900	83,482,380
04/21/22	6:15:00 PM	12,400	900	83,482,380
04/21/22	6:30:00 PM	12,400	900	83,482,380
04/21/22	6:45:00 PM	12,400	900	83,482,380
04/21/22	7:00:00 PM	12,400	900	83,482,380
04/21/22	7:15:00 PM	12,400	900	83,482,380
04/21/22	7:30:00 PM	12,400	900	83,482,380
04/21/22	7:45:00 PM	12,400	900	83,482,380
04/21/22	8:00:00 PM	12,500	900	84,155,625
04/21/22	8:15:00 PM	12,400	900	83,482,380
04/21/22	8:30:00 PM	12,500	900	84,155,625
04/21/22	8:45:00 PM	12,500	900	84,155,625
04/21/22	9:00:00 PM	12,500	900	84,155,625
04/21/22	9:15:00 PM	12,500	900	84,155,625
04/21/22	9:30:00 PM	12,500	900	84,155,625
04/21/22	9:45:00 PM	12,600	900	84,828,870
04/21/22	10:00:00 PM	12,600	900	84,828,870
04/21/22	10:15:00 PM	12,600	900	84,828,870
04/21/22	10:30:00 PM	12,600	900	84,828,870
04/21/22	10:45:00 PM	12,600	900	84,828,870
04/21/22	11:00:00 PM	12,600	900	84,828,870
04/21/22	11:15:00 PM	12,600	900	84,828,870
04/21/22	11:30:00 PM	12,600	900	84,828,870
04/21/22	11:45:00 PM	12,600	900	84,828,870

**Notes**

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

ft<sup>3</sup>/sec - cubic feet per second

ft - feet

gal - gallons

USGS - United States Geological Survey

**TABLE B8**

**Table 3+ PFAS MASS DISCHARGE AT DOWNSTREAM LOCATIONS  
Chemours Fayetteville Works, North Carolina**

<b>Pathway Number</b>	--	--	--
<b>Pathway Name</b>	<b>Tar Heel Ferry Road Bridge<sup>2</sup></b>	<b>Tar Heel Ferry Road Bridge</b>	<b>Bladen Bluff<sup>2</sup></b>
<b>Flow (MG)</b>	--	<b>6,370</b>	--
<b>Instantaneous Flow (ft3/sec)</b>	<b>2,540</b>	--	<b>2,660</b>
<b>Program</b>	<b>CAP SW Sampling 2Q22</b>	<b>CAP SW Sampling 2Q22</b>	<b>CAP SW Sampling 2Q22</b>
<b>Location ID</b>	<b>CFR-TARHEEL</b>	<b>CFR-TARHEEL</b>	<b>CFR-BLADEN</b>
<b>Field Sample ID</b>	<b>CAP2Q22-CFR-TARHEEL-041922</b>	<b>CAP2Q22-CFR-TARHEEL-24-042022</b>	<b>CAP2Q22-CFR-BLADEN-041922</b>
<b>Sample Date and Time<sup>1</sup></b>	<b>4/19/2022</b>	<b>4/20/2022</b>	<b>4/19/2022</b>
<b>Sample Delivery Group (SDG)</b>	<b>320-87040-1</b>	<b>320-87069-1</b>	<b>320-87040-1</b>
<b>Lab Sample ID</b>	<b>320-87040-4</b>	<b>320-87069-2</b>	<b>320-87040-3</b>
<b>Sample Type</b>	<b>Grab</b>	<b>Composite</b>	<b>Grab</b>
<b>Table 3+ Lab SOP Mass Discharge<sup>3</sup> (mg/s)</b>			
HFPO-DA	<b>0.61</b>	<b>1.14</b>	<b>0.56</b>
PFMOAA	<b>0.58</b>	<b>5.30</b>	<b>0.69</b>
PFO2HxA	<b>0.55</b>	<b>2.60</b>	<b>0.47</b>
PFO3OA	<b>0.19</b>	<b>0.78</b>	<b>0.20</b>
PFO4DA	ND	ND	ND
PFO5DA	ND	ND	ND
PMPA	ND	ND	ND
PEPA	ND	ND	ND
PS Acid	ND	ND	ND
Hydro-PS Acid	ND	ND	ND
R-PSDA	<b>0.28</b>	<b>6.70</b>	<b>0.26</b>
Hydrolyzed PSDA	<b>0.16</b>	<b>2.79</b>	<b>0.19</b>
R-PSDCA	ND	ND	ND
NVHOS, Acid Form	<b>0.35</b>	<b>3.07</b>	<b>0.20</b>
EVE Acid	ND	ND	ND
Hydro-EVE Acid	ND	ND	ND
R-EVE	ND	<b>1.4</b>	ND
PES	ND	ND	ND
PFECA B	ND	ND	ND
PFECA-G	ND	ND	ND
<b>Total Attachment C Mass Discharge<sup>4,5</sup></b>	<b>1.94</b>	<b>9.77</b>	<b>1.88</b>
<b>Total Table 3+ Mass Discharge (17 compounds)<sup>4,6</sup></b>	<b>2.30</b>	<b>12.84</b>	<b>2.11</b>
<b>Total Table 3+ Mass Discharge (20 Compounds)<sup>4</sup></b>	<b>2.73</b>	<b>23.72</b>	<b>2.56</b>

**TABLE B8**  
**Table 3+ PFAS MASS DISCHARGE AT DOWNSTREAM LOCATIONS**  
**Chemours Fayetteville Works, North Carolina**

<b>Pathway Number</b>	--
<b>Pathway Name</b>	<b>Kings Bluff<sup>2</sup></b>
<b>Flow (MG)</b>	--
<b>Instantaneous Flow (ft3/sec)</b>	<b>11,900</b>
<b>Program</b>	<b>CAP SW Sampling 2Q22</b>
<b>Location ID</b>	<b>CFR-KINGS</b>
<b>Field Sample ID</b>	<b>CAP2Q22-CFR-KINGS-042122</b>
<b>Sample Date and Time<sup>1</sup></b>	<b>4/21/2022</b>
<b>Sample Delivery Group (SDG)</b>	<b>320-87069-1</b>
<b>Lab Sample ID</b>	<b>320-87069-1</b>
<b>Sample Type</b>	<b>Grab</b>
<b>Table 3+ Lab SOP Mass Discharge<sup>3</sup> (mg/s)</b>	
HFPO-DA	<b>1.11</b>
PFMOAA	ND
PFO2HxA	<b>1.35</b>
PFO3OA	ND
PFO4DA	ND
PFO5DA	ND
PMPA	ND
PEPA	ND
PS Acid	ND
Hydro-PS Acid	ND
R-PSDA	<b>1.28</b>
Hydrolyzed PSDA	ND
R-PSDCA	ND
NVHOS, Acid Form	<b>1.9</b>
EVE Acid	ND
Hydro-EVE Acid	ND
R-EVE	ND
PES	ND
PFECA B	ND
PFECA-G	ND
<b>Total Attachment C Mass Discharge<sup>4,5</sup></b>	<b>2.46</b>
<b>Total Table 3+ Mass Discharge (17 compounds)<sup>4,6</sup></b>	<b>4.38</b>
<b>Total Table 3+ Mass Discharge (20 Compounds)<sup>4</sup></b>	<b>5.73</b>

**Notes:**

- 1 - For composite samples, the end of the composite sample time period is listed as the sample date.
  - 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, 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: Chemours Fayetteville	Location ID: CFR-BLADEN	Project Manager: Tracy Ovbey
Samplers: CHARLES PACEITAYLOR CRITTENDEN	Sampling Event: Quarterly Cap	Event Type: Sampling
Date: 04-19-2022	Time: 15:21	General Comments:

Spl ID	Spl Date	Time	pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
CAP2022-CFR-BLADEN-041922	04-19-2022	15:30	6.54	6.05	66.20	12.70	117.90	18.90	Clear	No		

**Sampling Data**

Sampling Method: Peri Pump Grab	Tubing Depth (ft): 8	Distance to River Right: 30
Sampling Location: Thalweg	Multi Meter Used: YSI Pro	Distance to River Left: 53
Total Depth to Bottom of Channel (ft): 16	Multi Meter ID: 47520	Distance to River (Right/Left) Units: m

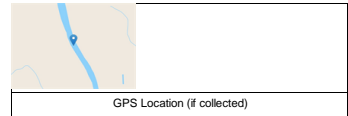
Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	537 Mod Including HFPO-DA
PFAS	250 mL poly	NP	Table 3+ (19)(LL)
PFAS	250 mL poly	NP	Table 3+ (20)(LL)
PFAS	250 mL poly	NP	Table 3+ (19)(HL)
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD

**ALL PARAMETERS ANALYZED**

537 MOD (13 PFCA's); Table 3+(20) LL Include HFPO-DA

WEATHER CONDITIONS	
Temperature (F):	62.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	14

Latitude: 34.7722035996201  
 Longitude: -78.7981171134175



**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-KINGS	Project Manager: Tracy Ovbey
Samplers: CHARLES PACEIFELIPE SILVA	Sampling Event: Quarterly Cap	Event Type: Sampling
Date: 04-21-2022	Time: 11:44	General Comments:

Spl ID	Spl Date	Time	pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
CAP2022-CFR-KINGS-042122	04-21-2022	11:45	7.06	7.73	155.30	67.59	629.90	22.16	Brown	No		

**Sampling Data**

Sampling Method: Peri Pump Grab	Tubing Depth (ft): 11	Distance to River Right: 83
Sampling Location: Thalweg	Multi Meter Used: Insitu Aqua Troll	Distance to River Left: 22
Total Depth to Bottom of Channel (ft): 21.2	Multi Meter ID: 706682	Distance to River (Right/Left) Units: m

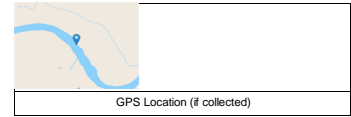
Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	537 Mod Including HFPO-DA
PFAS	250 mL poly	NP	Table 3+ (19)(LL)
PFAS	250 mL poly	NP	Table 3+ (20)(LL)
PFAS	250 mL poly	NP	Table 3+ (19)(HL)
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD

**ALL PARAMETERS ANALYZED**

537 MOD (13 PFCA's); Table 3+ (01)(LL) Including HFPO-DA

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

Latitude: 34.40692  
Longitude: -78.2946163



River right



River Left

**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="CFR-RM-76"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="Felipe Silva, Taylor Crittenden"/>	Sampling Event: <input type="text" value="Monthly CAP"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="04-19-2022"/>	Time: <input type="text" value="10:13"/>	General Comments: <input type="text"/>

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
CAP2022-CFR-RM-76-041922	4/19/2022	10:30	5.16	6.41	400.10	10.30	95.80	18.40	Clear	No		

**Sampling Data**

Sampling Method: <input type="text" value="Peri Pump Grab"/>	Tubing Depth (ft): <input type="text" value="10"/>	Distance to River Right: <input type="text" value="25"/>
Sampling Location: <input type="text" value="Thalweg"/>	Multi Meter Used: <input type="text" value="YSI Pro"/>	Distance to River Left: <input type="text" value="65"/>
Total Depth to Bottom of Channel (ft): <input type="text" value="21"/>	Multi Meter ID: <input type="text" value="47520"/>	Distance to River (Right/Left) Units: <input type="text" value="ft"/>

Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	537 Mod Including HFPO-DA
PFAS	250 mL poly	NP	Table 3+ (19)(LL)
PFAS	250 mL poly	NP	Table 3+ (20)(LL)
PFAS	250 mL poly	NP	Table 3+ (19)(HL)
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HFPO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HFPO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD

**ALL PARAMETERS ANALYZED**

537 MOD (13 PFCA); Table 3+(20) LL Including HFPO-DA

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

Latitude:   
 Longitude:

GPS Location (if collected)



**SURFACE WATER SAMPLING RECORD**

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

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
				mg/L	mV	NTU	µS/cm	°C				
CAP2Q22-CFR-TARHEEL-041922	04-19-2022	17:05	6.50	6.04	308.70	15.50	117.70	19.20	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:

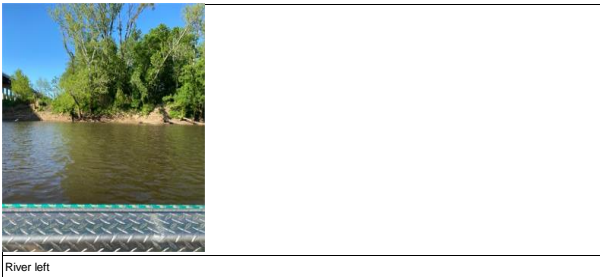
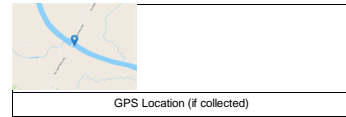
Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	537 Mod Including HFPO-DA
PFAS	250 mL poly	NP	Table 3+ (19)(LL)
PFAS	250 mL poly	NP	Table 3+ (20)(LL)
PFAS	250 mL poly	NP	Table 3+ (19)(HL)
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD

**ALL PARAMETERS ANALYZED**

537 MOD (13 PFCA); Table 3+(20) LL include HFPO-DA

WEATHER CONDITIONS	
Temperature (F):	64.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	13

Latitude:   
 Longitude:



**RECORD OF WELL SAMPLING**

Site Name: Chemours Fayetteville Well ID: EW-3 Well Diameter: 6 Inches  
 Samplers: MATT SCHEUER|TAYLOR CRITTENDEN Event: Quarterly CAP Project Manager: Tracy Ovbey

**Purging Data**  
 Pump Depth: 60  
 Pump Loc: within screen  
 Method: Peristaltic Pump Date: 04-27-2022 Time: 12:10

WATER VOLUME CALCULATION		
= (Total Depth of Well - Depth To Water ) x Casing Volume per Foot		
Water Volume =	70.224	
Initial Depth to Water (ft.):	17.02	Depth to Well Bottom (ft.): 67.18

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			
12:35	17.02	250.00	1000.00	5.15	0.78	-86.20	65.95	166.46	20.81	cloudy	no	
12:40	17.02	250.00	1250.00	4.5	0.19	56.90	39.90	162.60	20.05	cloudy	no	
12:45	17.02	250.00	1250.00	4.46	0.14	88.20	77.24	161.93	20.15	cloudy	no	
12:50	17.02	250.00	1250.00	4.5	0.11	110.80	66.44	162.44	20.15	cloudy	no	
12:55	17.02	250.00	1250.00	4.58	0.09	125.80	73.47	161.87	20.32	clear	no	
13:00	17.02	250.00	1250.00	4.66	0.08	128.60	55.88	159.78	20.23	clear	no	
13:05	17.02	250.00	1250.00	4.71	0.08	127.60	51.78	146.11	20.41	clear	no	
13:10	17.02	250.00	1250.00	4.76	0.08	126.50	42.41	159.57	20.30	cloudy	no	
13:15	17.02	250.00	1250.00	4.82	0.08	128.70	30.49	159.59	20.35	clear	no	
13:20	17.02	250.00	1250.00	4.84	0.08	132.00	28.90	158.62	20.88	clear	no	
13:25	17.02	250.00	1250.00	4.9	0.08	132.70	27.67	145.38	20.71	clear	no	
13:30	17.02	250.00	1250.00	4.92	0.08	132.30	23.86	115.67	20.65	clear	no	
13:35	17.02	250.00	1250.00	4.93	0.08	132.90	19.93	122.02	21.17	clear	no	
13:40	17.02	250.00	1250.00	4.69	0.08	133.00	21.58	46.03	21.49	clear	no	
13:45	17.02	220.00	1100.00	4.98	0.08	132.60	33.71	160.22	21.21	cloudy	no	
13:50	17.02	220.00	1100.00	4.9	0.08	131.20	19.55	162.99	21.27	clear	no	
13:55	17.02	220.00	1100.00	4.81	0.08	134.80	18.60	161.57	21.21	clear	no	
14:00	17.02	220.00	1100.00	4.8	0.08	131.90	18.44	161.57	21.18	clear	no	

Screen Interval:

37-67

Tote #	Call Suez?	Processing?	Tote Volume (Gal)	Location if not Suez
--	--	--	--	--

**Sampling Data**

Method: Low Flow Date: 04-27-2022 Time: 14:00  
 Field Filtered: No

Purge Start Time: 12:31  
 Total Volume Purged (mL): 21650

**Field Parameters**

STABILIZED PARAMETERS	
pH	4.80
Spec. Cond.(µS/cm)	161.57
Turbidity (NTU)	18.44
Temp.(°C)	21.18
DO (mg/L)	0.08
ORP (mV)	131.90

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

Sample ID: CAP2Q22-EW-3-042722  
 DuplicateID:  
 QA/QC:

ALL PARAMETERS ANALYZED
Table 3+ (20)(HL) Including HFPO-DA 537 MOD (13) PFCAs

WEATHER CONDITIONS	
Temperature (F):	65.00
Sky:	Sunny
Precipitation:	None

Wind (mph)

11

**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="GBC-1"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="CHARLES PACE TAYLOR CRITTENDEN "/>	Sampling Event: <input type="text" value="Quarterly CAP"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="04-19-2022"/>	Time: <input type="text" value="16:20"/>	General Comments: <input type="text" value="Moved sampling location further up stream due to river influence"/>

Spl ID	Spl Date	Time	pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
CAP2Q22-GBC-1-041922	04-19-2022	16:25	5.21	7.52	310.00	10.20	118.30	16.90	Clear	No		

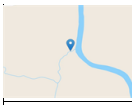
**Sampling Data**

Sampling Method: <input type="text" value="Bottle Grab"/>	Multi Meter Used: <input type="text" value="YSI Pro"/>	Flow Rate: <input type="text" value="N/A"/>
	Multi Meter ID: <input type="text" value="47520"/>	Flow Rate Units: <input type="text" value="N/A"/>

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	537 Mod Including HFPO-DA
PFAS	250 mL poly	NP	Table 3+ (19)(LL)
PFAS	250 mL poly	NP	Table 3+ (20)(LL)
PFAS	250 mL poly	NP	Table 3+ (19)(HL)
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

ALL PARAMETERS ANALYZED
Table 3+ (20)(LL) Including HFPO-DA; 537 MOD (13) PFCAs

<b>WEATHER CONDITIONS</b>	Latitude: <input type="text" value="34.8144322"/>
Temperature (F): <input type="text" value="62.00"/>	Longitude: <input type="text" value="-78.822061"/>
Sky: <input type="text" value="Sunny"/>	
Precipitation: <input type="text" value="None"/>	
Wind (mph): <input type="text" value="6"/>	


GPS Location (if collected)

Water Quality Condition:	N/A
Water Clarity:	N/A
Water Color:	N/A
Water Odor:	N/A



Sample and flow location



Looking downstream of sample location

**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="LOCK-DAM-NORTH"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="CHARLES PACE TAYLOR CRITTENDEN "/>	Sampling Event: <input type="text" value="Quarterly CAP"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="04-19-2022"/>	Time: <input type="text" value="13:35"/>	General Comments: <input type="text" value="No seep to sample"/>

Spl ID	Spl Date	Time	pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
--	--	--	--	--	--	--	--	--	--	--		

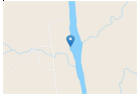
**Sampling Data**

Sampling Method: <input type="text" value="--"/>	Multi Meter Used: <input type="text" value="--"/>	Flow Rate: <input type="text" value="--"/>
	Multi Meter ID: <input type="text" value="--"/>	Flow Rate Units: <input type="text" value="--"/>

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	537 Mod Including HFPO-DA
PFAS	250 mL poly	NP	Table 3+ (19)(LL)
PFAS	250 mL poly	NP	Table 3+ (20)(LL)
PFAS	250 mL poly	NP	Table 3+ (19)(HL)
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

ALL PARAMETERS ANALYZED
--

<b>WEATHER CONDITIONS</b>	Latitude: <input type="text" value="34.833773"/>
Temperature (F): <input type="text" value="60.00"/>	Longitude: <input type="text" value="-78.8235243"/>
Sky: <input type="text" value="Sunny"/>	
Precipitation: <input type="text" value="None"/>	
Wind (mph): <input type="text" value="6"/>	



GPS Location (if collected)			

Water Quality Condition:	N/A
Water Clarity:	N/A
Water Color:	N/A
Water Odor:	N/A



At river



Looking up boat ramp



**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="LOCK-DAM-SEEP"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="CHARLES PACE TAYLOR CRITTENDEN "/>	Sampling Event: <input type="text" value="Quarterly CAP"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="04-19-2022"/>	Time: <input type="text" value="13:38"/>	General Comments: <input type="text" value="Flow measured using 500 ml container, took 1.5 seconds to fill. About 85% capture."/>

Spl ID	Spl Date	Time	pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
CAP2022-LOCK-DAM-SEEP-041922	04-19-2022	13:40	6.34	6.95	66.50	31.10	156.40	16.40	Cloudy	No		

**Sampling Data**

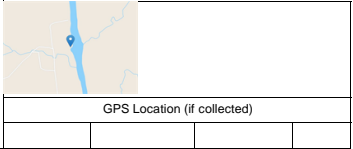
Sampling Method: <input type="text" value="Bottle Grab"/>	Multi Meter Used: <input type="text" value="YSI Pro"/>	Flow Rate: <input type="text" value="20"/>
	Multi Meter ID: <input type="text" value="47520"/>	Flow Rate Units: <input type="text" value="L/min"/>

Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	537 Mod Including HFPO-DA
PFAS	250 mL poly	NP	Table 3+ (19)(LL)
PFAS	250 mL poly	NP	Table 3+ (20)(LL)
PFAS	250 mL poly	NP	Table 3+ (19)(HL)
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HFPO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HFPO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

**ALL PARAMETERS ANALYZED**

Table 3+ (20)(LL) Including HFPO-DA; 537 MOD (13) PFCA's

<b>WEATHER CONDITIONS</b>	Latitude: <input type="text" value="34.8338978"/>
Temperature (F): <input type="text" value="60.00"/>	Longitude: <input type="text" value="-78.8236316"/>
Sky: <input type="text" value="Sunny"/>	
Precipitation: <input type="text" value="None"/>	
Wind (mph): <input type="text" value="6"/>	



GPS Location (if collected)			

Water Quality Condition:	N/A
Water Clarity:	N/A
Water Color:	N/A
Water Odor:	N/A



Sample/flow location



Seep entering river.

**RECORD OF WELL SAMPLING**

Site Name: Chemours Fayetteville  
 Samplers: SCOTT SKRZYDLINSKI|TAYLOR CRITTENDEN

Well ID: LTW-01  
 Event: Quarterly CAP

Well Diameter: 2 Inches  
 Project Manager: Tracy Ovbey

**Purging Data**  
 Pump Depth: 20  
 Pump Loc: within screen  
 Method: Peristaltic Pump  
 Date: 04-14-2022  
 Time: 13:05

WATER VOLUME CALCULATION		
= (Total Depth of Well - Depth To Water ) x Casing Volume per Foot		
Water Volume =	2,098	
Initial Depth to Water (ft.):	15.85	Depth to Well Bottom (ft.): 28.96

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	16.46	210.00	0.00	4.11	0.71	477.90	16.40	129.90	18.20	Clear	No	
13:15	16.54	210.00	1050.00	4.01	0.48	478.70	19.00	132.80	18.30	Clear	No	
13:20	16.56	210.00	1050.00	3.86	0.42	469.20	5.33	129.40	18.30	Clear	No	
13:25	16.56	210.00	1050.00	4.17	0.44	457.50	4.18	130.90	18.10	Clear	No	
13:30	16.56	210.00	1050.00	3.95	0.47	457.70	3.42	129.80	18.10	Clear	No	
13:35	16.57	210.00	1050.00	3.99	0.58	453.00	4.11	129.80	18.10	Clear	No	
13:40	16.57	210.00	1050.00	3.91	0.68	449.80	4.25	130.10	18.00	Clear	No	
13:45	16.58	210.00	1050.00	3.65	0.73	445.60	2.76	129.70	18.30	Clear	No	
13:50	16.57	210.00	1050.00	4.12	0.84	439.60	3.16	129.90	18.20	Clear	No	
13:55	16.60	210.00	1050.00	4.1	0.89	433.00	2.68	129.10	18.20	Clear	No	
14:00	16.63	210.00	1050.00	4.2	0.92	430.60	3.00	128.90	17.90	Clear	No	

Screen Interval:

11.0-26.0

Tote #	Call Suez?	Processing?	Tote Volume (Gal)	Location if not Suez
--	--	--	--	--

**Sampling Data**

Method: Low Flow  
 Field Filtered: No  
 Date: 04-14-2022  
 Time: 14:00  
 Purge Start Time: 13:10  
 Total Volume Purged (mL): 10500

**Field Parameters**

STABILIZED PARAMETERS	
pH	4.20
Spec. Cond. (µS/cm)	128.90
Turbidity (NTU)	3.00
Temp. (°C)	17.90
DO (mg/L)	0.92
ORP (mV)	430.60

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

**ALL PARAMETERS ANALYZED**

537 MOD (13 PFASs); Table 3+(20) HL Include HFPO-DA

Sample ID: CAP2Q22-LTW-01-041422  
 DuplicateID:  
 QA/QC:

WEATHER CONDITIONS	
Temperature (F):	82.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	15

### RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville      Well ID: LTW-02      Well Diameter: 2 Inches  
 Samplers: KIRSTEN GARD|TAYLOR CRITTENDEN      Event: Quarterly CAP      Project Manager: Tracy Ovbey

**Purging Data**  
 Pump Depth: 30  
 Pump Loc: within screen  
 Method: Peristaltic Pump      Date: 04-15-2022      Time: 11:30

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water ) x Casing Volume per Foot			
Water Volume =	5.072		
Initial Depth to Water (ft.):	8.96	Depth to Well Bottom (ft.):	40.66

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			
11:50	9.03	215.00	1075.00	4.77	6.83	258.00	4.13	54.80	18.09	Clear	No	
11:55	9.04	215.00	1075.00	4.65	6.78	275.50	3.45	54.58	18.02	Clear	No	
12:00	9.03	215.00	1075.00	4.65	6.25	276.00	3.51	54.29	17.95	Clear	No	
12:05	9.04	215.00	1075.00	4.7	4.00	248.50	2.51	53.70	17.97	Clear	No	
12:10	9.03	215.00	1075.00	4.8	4.63	229.90	5.35	56.36	18.00	Clear	No	
12:15	9.03	215.00	1075.00	5.25	3.94	142.10	1.81	73.42	18.44	Clear	No	
12:20	9.03	215.00	1075.00	4.99	3.46	171.10	0.13	61.44	18.19	Clear	No	
12:25	9.03	215.00	1075.00	5.08	3.40	172.30	0.24	62.62	18.53	Clear	No	
12:30	9.03	215.00	1075.00	5.11	2.76	176.60	0.16	64.11	18.65	Clear	No	
12:35	9.03	215.00	1075.00	5.02	2.84	183.40	0.99	63.12	18.66	Clear	No	
12:40	9.03	215.00	1075.00	5.16	2.71	169.50	0.34	66.96	18.85	Clear	No	

Screen Interval:

28.0-38.0

Tote #	Call Suez?	Processing?	Tote Volume (Gal)	Location if not Suez
--	--	--	--	--

**Sampling Data**

Method: Low Flow      Date: 04-15-2022      Time: 12:45      Purge Start Time: 11:45  
 Field Filtered: No      Total Volume Purged (mL): 11825

**Field Parameters**

STABILIZED PARAMETERS	
pH	5.16
Spec. Cond. (µS/cm)	66.96
Turbidity (NTU)	0.34
Temp. (°C)	18.85
DO (mg/L)	2.71
ORP (mV)	169.50

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

ALL PARAMETERS ANALYZED

537 MOD (13 PFCAs); Table 3+(20) HL Include HFPO-DA

Sample ID: CAP2Q22-LTW-02-041522  
 Duplicate ID:  
 QA/QC:

WEATHER CONDITIONS

Temperature (F):	75.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	6

**RECORD OF WELL SAMPLING**

Site Name: Chemours Fayetteville Well ID: LTW-03 Well Diameter: 2 Inches  
 Samplers: CHARLES PACE|TAYLOR CRITTENDEN Event: Quarterly CAP Project Manager: Tracy Ovbey

**Purging Data**  
 Pump Depth: 25  
 Pump Loc: within screen  
 Method: Peristaltic Pump Date: 04-26-2022 Time: 11:30

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water ) x Casing Volume per Foot			
Water Volume =	3.234		
Initial Depth to Water (ft.):	12.54	Depth to Well Bottom (ft.):	32.75

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			
11:45	13.11	400.00	1200.00	4.32	1.10	196.70	248.58	97.90	18.58	cloudy	no	
11:50	13.18	325.00	1625.00	4.09	1.25	213.60	63.35	97.04	18.77	cloudy	no	
11:55	13.25	325.00	1625.00	4.1	1.03	227.90	36.80	96.45	18.78	cloudy	no	
12:00	13.38	325.00	1625.00	4.11	0.54	227.30	12.46	94.84	18.82	clear	no	
12:05	13.45	325.00	1625.00	4.16	0.54	227.50	4.77	93.94	19.06	clear	no	
12:10	13.50	325.00	1625.00	4.29	0.43	222.50	3.89	93.95	19.27	clear	no	
12:15	13.55	325.00	1625.00	4.44	0.38	217.70	3.84	92.51	19.60			
12:20	13.55	325.00	1625.00	4.54	0.38	216.30	6.73	92.41	18.87	clear	no	
12:25	13.62	325.00	1625.00	4.51	0.36	221.50	2.62	91.64	18.48	clear	no	

Screen Interval:

15.0-30.0

Tote #	Call Suez?	Processing?	Tote Volume (Gal)	Location if not Suez
--	--	--	--	--

**Sampling Data**

Method: Low Flow Date: 04-26-2022 Time: 12:30  
 Field Filtered: No

Purge Start Time: 11:42  
 Total Volume Purged (mL): 14200

**Field Parameters**

STABILIZED PARAMETERS	
pH	4.51
Spec. Cond. (µS/cm)	91.64
Turbidity (NTU)	2.62
Temp. (°C)	18.48
DO (mg/L)	0.36
ORP (mV)	221.50

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

Sample ID: CAP2Q22-LTW-03-042622  
 Duplicate ID:  
 QA/QC:

ALL PARAMETERS ANALYZED
537 MOD (13 PFCAs); Table 3+(20) HL Include HFPO-DA

WEATHER CONDITIONS	
Temperature (F):	81.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	13

**RECORD OF WELL SAMPLING**

Site Name: Chemours Fayetteville  
 Samplers: KIRSTEN GARD|TAYLOR CRITTENDEN

Well ID: LTW-04  
 Event: Quarterly CAP

Well Diameter: 2 Inches  
 Project Manager: Tracy Ovbey

**Purging Data**  
 Pump Depth: 20  
 Pump Loc: within screen  
 Method: Peristaltic Pump Date: 04-13-2022 Time: 14:34

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water ) x Casing Volume per Foot			
Water Volume =	3.36		
Initial Depth to Water (ft.):	7.83	Depth to Well Bottom (ft.):	28.49

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			
16:00	--	175.00	0.00	4.31	0.00	333.20	18.21	92.79	20.03	Clear	None	
16:05	--	175.00	1225.00	4.36	0.00	324.80	15.85	91.94	19.86	Clear	None	
16:10	--	175.00	1225.00	4.45	0.00	313.30	19.73	90.70	19.72	Clear	None	

Screen Interval:

12.0-27.0

Tote #	Call Suez?	Processing?	Tote Volume (Gal)	Location if not Suez
--	--	--	--	--

**Sampling Data**

Method: Low Flow  
 Field Filtered: No

Date: 04-13-2022 Time: 16:20

Purge Start Time: 16:00  
 Total Volume Purged (mL): 2450

**Field Parameters**

STABILIZED PARAMETERS	
pH	4.45
Spec. Cond. (µS/cm)	90.70
Turbidity (NTU)	19.73
Temp. (°C)	19.72
DO (mg/L)	0.00
ORP (mV)	313.30

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

Sample ID: CAP2Q22-LTW-04-041322  
 DuplicateID:  
 QA/QC:

ALL PARAMETERS ANALYZED
537 MOD (13 PFCA's); Table 3+(20) HL Include HFPO-DA

WEATHER CONDITIONS	
Temperature (F):	81.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	12

**RECORD OF WELL SAMPLING**

Site Name: Chemours Fayetteville

Well ID: LTW-05

Well Diameter: 2 Inches

Samplers: MATT SCHEUER

Event: Quarterly CAP

Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 37

Pump Loc: within screen

Method: Peristaltic Pump

Date: 04-26-2022

Time: 11:15

**WATER VOLUME CALCULATION**

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

Water Volume =	--
Initial Depth to Water (ft.):	9.36
Depth to Well Bottom (ft.):	--

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			
11:47	9.53	350.00	1750.00	5.91	0.24	277.10	28.50	119.80	18.90	Clear	No	
11:52	9.53	350.00	1750.00	5.51	0.16	270.40	9.77	109.30	18.40	Clear	No	
11:57	9.53	350.00	1750.00	5.42	0.12	254.00	6.79	109.80	18.60	Clear	No	
12:02	9.53	350.00	1750.00	5.35	0.10	254.80	5.49	108.90	18.70	Clear	No	
12:07	9.53	350.00	1750.00	5.36	0.09	254.50	5.10	108.80	18.60	Clear	No	
12:12	9.54	350.00	1750.00	5.65	0.10	252.90	4.35	108.30	18.90	Clear	No	
12:17	9.54	350.00	1750.00	5.85	0.10	253.30	2.97	108.20	18.80	Clear	No	
12:22	9.54	350.00	1750.00	5.85	0.10	253.60	2.72	108.50	18.40	Clear	No	

Screen Interval:

29.0-44.0

Tote #	Call Suez?	Processing?	Tote Volume (Gal)	Location if not Suez
--	--	--	--	--

**Sampling Data**

Method: Low Flow

Date: 04-26-2022 Time: 12:22

Purge Start Time: 11:42

Field Filtered: No

Total Volume Purged (mL): 14000

**Field Parameters**

STABILIZED PARAMETERS	
pH	5.85
Spec. Cond.(µS/cm)	108.50
Turbidity (NTU)	2.72
Temp.(°C)	18.40
DO (mg/L)	0.10
ORP (mV)	253.60

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

Sample ID: CAP2Q22-LTW-05-042622

DuplicateID:

QA/QC:

ALL PARAMETERS ANALYZED
Table 3+ (20)(HL) Including HFPO-DA 537 MOD (13) PFCAs

WEATHER CONDITIONS	
Temperature (F):	84.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	7

**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="OLDOF-1"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="CHARLES PACE TAYLOR CRITTENDEN "/>	Sampling Event: <input type="text" value="Quarterly CAP"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="04-26-2022"/>	Time: <input type="text" value="14:30"/>	General Comments: <input type="text"/>

Spl ID	Spl Date	Time	pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
CAP2022-OLDOF-1-24-042622	04-26-2022	12:56	5.24	7.40	178.30	6.25	190.32	26.37	Clear	No		

**Sampling Data**

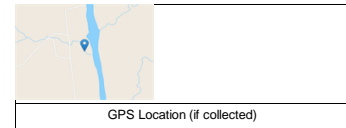
Sampling Method: <input type="text" value="ISCO Composite"/>	Multi Meter Used: <input type="text" value="Insitu Aqua Troll"/>
ISCO Start Date and Time: <input type="text" value="04-25-2022 13:56"/>	Multi Meter ID: <input type="text" value="706682"/>
ISCO End Date and Time: <input type="text" value="04-26-2022 12:56"/>	Old Outfall Bypass(Yes/No): <input type="text" value="No"/>

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	537 Mod Including HFPO-DA
PFAS	250 mL poly	NP	Table 3+ (19)(LL)
PFAS	250 mL poly	NP	Table 3+ (20)(LL)
PFAS	250 mL poly	NP	Table 3+ (19)(HL)
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HFPO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HFPO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

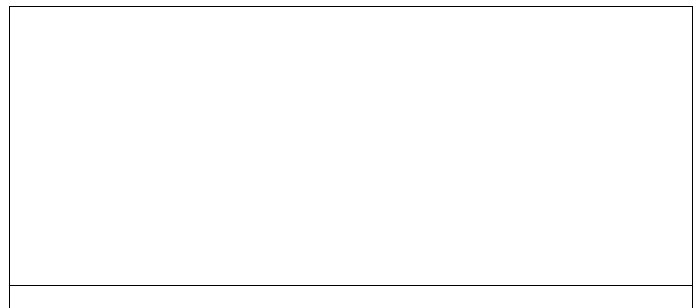
ALL PARAMETERS ANALYZED
Table 3+ (20)(LL) Including HFPO-DA; 537 MOD (13) PFCAs

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

Latitude:	<input type="text" value="34.8319362"/>
Longitude:	<input type="text" value="-78.8238673"/>



Sample and flow location



**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="OUTFALL 002"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="CHRIS MCGINNESS\VALERIA GOFIGAN-MCKENNA"/>	Sampling Event: <input type="text" value="Quarterly CAP"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="04-19-2022"/>	Time: <input type="text" value="11:07"/>	General Comments: <input type="text"/>

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
CAP2Q22-OUTFALL-002-24-042022	4/20/2022	1:36	7.11	9.39	4.90	21.11	186.47	17.57	Clear	None		

**Sampling Data**

Sampling Method: <input type="text" value="ISCO Composite"/>	Multi Meter Used: <input type="text" value="Insitu Aqua Troll"/>
ISCO Start Date and Time: <input type="text" value="4/19/2022 2:36"/>	Multi Meter ID: <input type="text" value="706682"/>
ISCO End Date and Time: <input type="text" value="4/20/2022 1:36"/>	Old Outfall Bypass(Yes/No): <input type="text" value="No"/>

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	537 Mod Including HFPO-DA
PFAS	250 mL poly	NP	Table 3+ (19)(LL)
PFAS	250 mL poly	NP	Table 3+ (20)(LL)
PFAS	250 mL poly	NP	Table 3+ (19)(HL)
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

ALL PARAMETERS ANALYZED
537 MOD (13 PFACAs); Table 3+(20) LL Include HFPO-DA

WEATHER CONDITIONS	
Temperature (F):	55.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	14

Latitude:	<input type="text" value="34.8384132329977"/>
Longitude:	<input type="text" value="-78.8285374245579"/>





**RECORD OF WELL SAMPLING**

Site Name: Chemours Fayetteville Well ID: PIW-1D Well Diameter: 2 Inches  
 Samplers: KIRSTEN GARD/VALERIA GOFIGAN-MCKENNA Event: Quarterly CAP Project Manager: Tracy Ovbey

**Purging Data**  
 Pump Depth: 28  
 Pump Loc: within screen  
 Method: Peristaltic Pump Date: 04-12-2022 Time: 11:25

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water ) x Casing Volume per Foot			
Water Volume =	2.214		
Initial Depth to Water (ft.):	17.9	Depth to Well Bottom (ft.):	31.74

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			
11:30	17.90	150.00	750.00	3.57	0.41	335.40	57.83	166.73	18.80	Clear	None	
11:35	17.90	150.00	750.00	3.47	0.21	400.40	63.34	166.98	18.71	Clear	None	
11:40	17.90	150.00	750.00	3.45	0.21	435.50	61.16	166.26	18.54	Clear	None	
11:45	17.90	150.00	750.00	3.46	0.16	444.40	120.27	167.30	18.47	Clear	None	
11:50	17.90	150.00	750.00	3.5	0.13	433.80	170.86	166.68	17.29	Clear	None	
11:55	17.90	150.00	750.00	3.52	0.11	435.00	128.50	166.20	18.55	Clear	None	
12:00	17.90	150.00	750.00	3.52	0.16	405.60	86.32	166.79	18.49	Clear	None	
12:05	17.90	150.00	750.00	3.55	0.09	415.70	73.43	166.23	18.59	Clear	None	
12:10	17.90	150.00	750.00	3.56	0.08	417.50	68.51	165.98	18.65	Clear	None	
12:15	17.90	150.00	750.00	3.59	0.08	409.70	53.54	165.70	18.47	Clear	None	
12:20	17.90	150.00	750.00	3.6	0.08	411.00	58.05	166.28	18.65	Clear	None	
12:25	17.90	150.00	750.00	3.58	0.05	409.70	40.32	164.68	18.79	Clear	None	
12:30	17.90	150.00	750.00	3.61	0.03	406.50	39.59	165.25	18.83	Clear	None	
12:35	17.90	150.00	750.00	3.61	0.05	405.00	29.72	164.69	19.11	Clear	None	
12:40	17.90	150.00	750.00	3.62	0.03	406.20	27.58	165.30	19.03	Clear	None	
12:45	17.90	150.00	750.00	3.63	0.03	406.10	26.67	164.81	19.10	Clear	None	
12:50	17.90	150.00	750.00	3.63	0.03	405.40	21.47	164.64	19.00	Clear	None	
12:55	17.90	150.00	750.00	3.63	0.03	403.50	21.99	164.50	18.93	Clear	None	
13:00	17.90	150.00	750.00	3.64	0.03	401.60	19.65	164.53	18.80	Clear	None	
13:05	17.90	150.00	750.00	3.64	0.03	398.70	19.40	164.55	18.76	Clear	None	

Screen Interval:

24.5 to 29.5

Tote #	Call Suez?	Processing?	Tote Volume (Gal)	Location if not Suez
--	--	--	--	--

**Sampling Data**

Method: Low Flow Date: 04-12-2022 Time: 13:10 Purge Start Time: 11:30  
 Field Filtered: No Total Volume Purged (mL): 15000

**Field Parameters**

STABILIZED PARAMETERS	
pH	3.64
Spec. Cond. (µS/cm)	164.55
Turbidity (NTU)	19.40
Temp. (°C)	18.76
DO (mg/L)	0.03
ORP (mV)	398.70

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

Sample ID: CAP2Q22-PIW-1D-041222  
 Duplicate ID:  
 QA/QC:

ALL PARAMETERS ANALYZED
537 MOD (13 PFASs); Table 3+(20) HL Include HFPO-DA

**WEATHER CONDITIONS**

Temperature (F):	73.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	12

**RECORD OF WELL SAMPLING**

Site Name: Chemours Fayetteville  
 Samplers: KIRSTEN GARD/VALERIA GOFIGAN-MCKENNA

Well ID: PIW-1S  
 Event: Quarterly CAP

Well Diameter: 2 Inches  
 Project Manager: Tracy Ovbey

**Purging Data**  
 Pump Depth: 15  
 Pump Loc: within screen  
 Method: Peristaltic Pump Date: 04-12-2022 Time: 10:00

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water ) x Casing Volume per Foot			
Water Volume =	0.083		
Initial Depth to Water (ft.):	21.42	Depth to Well Bottom (ft.):	21.94

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			
10:45	21.42	159.00	954.00	4.14	3.11	326.60	110.64	164.19	25.40	Cloudy	None	Purged dry, five well volumes purged when well went dry. Will sample next day.

Screen Interval:

7.8 - 17.8

Tote #	Call Suez?	Processing?	Tote Volume (Gal)	Location if not Suez
--	--	--	--	--

**Sampling Data**

Method: Five Well Volume  
 Field Filtered: Yes

Date: 04-12-2022 Time: 10:47

Purge Start Time: --  
 Total Volume Purged (mL): --

**Field Parameters**

STABILIZED PARAMETERS	
pH	4.14
Spec. Cond. (µS/cm)	164.19
Turbidity (NTU)	110.64
Temp. (°C)	25.40
DO (mg/L)	3.11
ORP (mV)	326.60

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

Sample ID: CAP2Q22-PIW-1S-041222  
 DuplicateID: CAP2Q22-PIW-1S-041222-Z  
 QA/QC:

ALL PARAMETERS ANALYZED
537 MOD (13 PFAs); Table 3+(20) HL Include HFPO-DA

WEATHER CONDITIONS	
Temperature (F):	73.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	12

**RECORD OF WELL SAMPLING**

Site Name: Chemours Fayetteville  
 Samplers: KIRSTEN GARD|VALERIA GOFIGAN-MCKENNA

Well ID: PIW-3D  
 Event: Quarterly CAP

Well Diameter: 2 Inches  
 Project Manager: Tracy Ovbey

**Purging Data**  
 Pump Depth: 23  
 Pump Loc: within screen  
 Method: Peristaltic Pump Date: 04-14-2022 Time: 13:07

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water ) x Casing Volume per Foot			
Water Volume =	1.61		
Initial Depth to Water (ft.):	16.74	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			
13:10	16.74	200.00	200.00	5.07	0.43	80.40	45.99	86.96	18.65	Orange	None	
13:15	17.00	200.00	1000.00	4.2	0.18	129.80	19.94	85.17	18.22	Clear	None	
13:20	16.91	200.00	1000.00	4.02	0.10	155.90	7.89	84.29	18.02	Clear	None	
13:25	16.95	200.00	1000.00	3.94	0.08	170.30	11.39	83.91	17.88	Clear	None	
13:30	--	200.00	1000.00	3.91	0.07	177.30	17.72	84.03	17.84	Clear	None	
13:35	--	200.00	1000.00	3.94	0.06	163.40	14.33	82.90	17.91	Clear	None	
13:40	--	200.00	1000.00	3.94	0.08	150.00	5.01	83.39	17.94	Clear	None	
13:45	--	200.00	1000.00	3.93	0.08	156.40	17.31	83.38	17.92	Clear	None	
13:50	16.91	200.00	1000.00	3.93	0.08	157.80	2.15	83.42	17.99	Clear	None	
			8200.00									

Screen Interval:

19 - 24

Tote #	Call Suez?	Processing?	Tote Volume (Gal)	Location if not Suez
--	--	--	--	--

**Sampling Data**

Method: Low Flow  
 Field Filtered: No

Date: 04-14-2022 Time: 13:50

Purge Start Time: 13:09  
 Total Volume Purged (mL): 8200

**Field Parameters**

STABILIZED PARAMETERS	
pH	3.93
Spec. Cond. (µS/cm)	83.42
Turbidity (NTU)	2.15
Temp. (°C)	17.99
DO (mg/L)	0.08
ORP (mV)	157.80

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

Sample ID: CAP2Q22-PIW-3D-041422  
 DuplicateID:  
 QA/QC:

ALL PARAMETERS ANALYZED
537 MOD (13 PFCA's); Table 3+(20) HL Include HFPO-DA

WEATHER CONDITIONS	
Temperature (F):	81.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	17

**RECORD OF WELL SAMPLING**

Site Name: Chemours Fayetteville Well ID: PIW-7D Well Diameter: 2 Inches  
 Samplers: CHARLES PACE|TAYLOR CRITTENDEN Event: Quarterly CAP Project Manager: Tracy Ovbey

**Purging Data**  
 Pump Depth: 30  
 Pump Loc: within screen  
 Method: Peristaltic Pump Date: 04-26-2022 Time: 13:10

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water ) x Casing Volume per Foot			
Water Volume =	5.074		
Initial Depth to Water (ft.):	5.32	Depth to Well Bottom (ft.):	37.03

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			
13:20	5.35	400.00	2000.00	3.9	0.13	279.30	8.57	97.05	20.34	clear	no	
13:25	5.35	400.00	2000.00	3.81	0.07	291.60	11.19	96.36	20.29	clear	no	
13:30	5.37	400.00	2000.00	4.03	0.04	277.20	13.78	96.97	20.30	clear	no	
13:35	5.37	400.00	2000.00	4.05	0.04	274.40	15.49	97.67	20.03	clear	no	
13:40	5.37	400.00	2000.00	4.04	0.03	261.80	13.68	97.83	20.43	clear	no	
13:45	5.37	400.00	2000.00	4.08	0.03	237.00	15.64	97.06	20.28	clear	no	
13:50	5.37	400.00	2000.00	4.11	0.03	226.70	18.44	96.40	19.60	clear	no	
13:55	5.37	400.00	2000.00	4.11	0.03	223.00	19.87	97.81	19.70	clear	no	

Screen Interval:

29 - 34

Tote #	Call Suez?	Processing?	Tote Volume (Gal)	Location if not Suez
--	--	--	--	--

**Sampling Data**

Method: Low Flow  
 Field Filtered: No

Date: 04-26-2022 Time: 13:55

Purge Start Time: 13:15  
 Total Volume Purged (mL): 16000

**Field Parameters**

STABILIZED PARAMETERS	
pH	4.11
Spec. Cond. (µS/cm)	97.81
Turbidity (NTU)	19.87
Temp. (°C)	19.70
DO (mg/L)	0.03
ORP (mV)	223.00

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

Sample ID: CAP2Q22-PIW-7D-042622  
 DuplicateID:  
 QA/QC:

ALL PARAMETERS ANALYZED
Table 3+ (20)(HL) Including HFPO-DA 537 MOD (13) PFCAs

WEATHER CONDITIONS	
Temperature (F):	85.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	12

**RECORD OF WELL SAMPLING**

Site Name: Chemours Fayetteville

Well ID: PIW-7S

Well Diameter: 2 Inches

Samplers: MATT SCHEUER

Event: Quarterly CAP

Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 15

Pump Loc: within screen

Method: Peristaltic Pump Date: 04-26-2022 Time: 13:00

**WATER VOLUME CALCULATION**

= (Total Depth of Well - Depth To Water ) x Casing Volume per Foot		
Water Volume =	--	
Initial Depth to Water (ft.):	5.16	Depth to Well Bottom (ft.): --

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			
13:25	5.75	350.00	1750.00	6.99	1.67	116.30	207.00	150.70	18.00	Cloudy	No	
13:30	5.81	350.00	1750.00	7.31	0.21	102.80	--	145.70	18.70	Cloudy	No	
13:35	5.86	350.00	1750.00	7.89	0.14	65.10	50.00	144.40	17.90	Cloudy	No	
13:40	5.89	350.00	1750.00	8.01	0.11	52.20	16.30	143.70	17.90	Clearish	No	
13:45	5.90	350.00	1750.00	8.08	0.10	41.00	11.10	143.20	17.90	Clearish	No	
13:50	5.91	350.00	1750.00	8.02	0.10	39.00	6.83	143.40	17.70	Clear	No	
13:55	5.92	350.00	1750.00	7.98	0.09	31.40	6.16	142.80	18.10	Clear	No	
14:00	5.93	350.00	1750.00	8.08	0.07	27.40	7.29	142.30	18.20	Clear	No	
14:05	5.93	350.00	1750.00	7.9	0.09	24.00	6.00	142.50	17.60	Clear	No	
14:10	5.93	350.00	1750.00	7.91	0.09	23.70	5.32	141.70	18.70	Clear	No	
14:15	5.93	350.00	1050.00	7.9	0.09	23.30	5.18	143.00	18.10	Clear	No	

Screen Interval:

7 - 17

Tote #	Call Suez?	Processing?	Tote Volume (Gal)	Location if not Suez
--	--	--	--	--

**Sampling Data**

Method: Low Flow  
Field Filtered: No

Date: 04-26-2022 Time: 14:20

Purge Start Time: 13:20  
Total Volume Purged (mL): 18550

**Field Parameters**

STABILIZED PARAMETERS	
pH	7.90
Spec. Cond. (µS/cm)	143.00
Turbidity (NTU)	5.18
Temp. (°C)	18.10
DO (mg/L)	0.09
ORP (mV)	23.30

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

Sample ID: CAP2Q22-PIW-7S-042622  
DuplicateID:  
QA/QC:

ALL PARAMETERS ANALYZED
Table 3+ (20)(HL) Including HPFO-DA 537 MOD (13) PFCAs

WEATHER CONDITIONS	
Temperature (F):	86.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	7

### 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 =	0.141		
Initial Depth to Water (ft.):	29.92	Depth to Well Bottom (ft.):	30.8

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			
14:05	29.92	270.00	1890.00	3.2	0.22	359.30	61.40	740.12	22.34	Cloudy	No	Well purged dry. Purged 1,890 ml.
15:15	29.44	270.00	750.00	--	--	--	--	--	--	--	--	Returned 4/14/22, purged 750 ml.
07:45	29.31	--	1100.00	--	--	--	--	--	--	--	--	Returned 4/15/22, purged 1100 ml. 5 well volumes purged will sample when well recharges.

Screen Interval:

Tote #	Call Suez?	Processing?	Tote Volume (Gal)	Location if not Suez
--	--	--	--	--

**Sampling Data**

Method:  Date:  Time:   
 Field Filtered:  Purge Start Time:   
 Total Volume Purged (mL):

**Field Parameters**

STABILIZED PARAMETERS	
pH	--
Spec. Cond. (µS/cm)	--
Turbidity (NTU)	--
Temp. (°C)	--
DO (mg/L)	--
ORP (mV)	--

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

Sample ID:   
 DuplicateID:   
 QA/QC:

ALL PARAMETERS ANALYZED
Table 3+ (20)(HL) Including HPFO-DA 537 MOD (13) PFCAs

WEATHER CONDITIONS	
Temperature (F):	70.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

**RECORD OF WELL SAMPLING**

Site Name: Chemours Fayetteville  
 Samplers: KIRSTEN GARD/VALERIA GOFIGAN-MCKENNA

Well ID: PW-06  
 Event: Quarterly CAP

Well Diameter: 2 Inches  
 Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 25  
 Pump Loc: within screen

Method: Peristaltic Pump Date: 4/11/2022 Time: 10:52

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water ) x Casing Volume per Foot			
Water Volume =	2.064		
Initial Depth to Water (ft.):	20	Depth to Well Bottom (ft.):	32.9

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			
10:55	20.00	250.00	0.00	4.61	4.52	272.60	1.88	52.21	16.90	Clear	None	
11:00	--	250.00	1250.00	4.66	4.41	209.90	1.24	53.15	18.66	Clear	None	
11:05	20.48	250.00	1250.00	4.68	4.32	216.40	0.99	53.03	18.74	Clear	None	
11:10	20.40	250.00	1250.00	4.65	4.39	219.50	1.73	53.35	18.75	Clear	None	
11:15	--	250.00	1250.00	4.57	4.47	241.90	1.94	55.51	17.65	Clear	None	
11:20	--	250.00	1250.00	4.56	4.67	254.10	1.35	53.35	17.22	Clear	None	
11:25	20.80	250.00	1250.00	4.51	4.43	261.60	1.45	54.17	17.26	Clear	None	

Screen Interval:

19 - 29

Tote #	Call Suez?	Processing?	Tote Volume (Gal)	Location if not Suez
--	--	--	--	--

**Sampling Data**

Method: Low Flow  
 Field Filtered: No

Date: 04-11-2022 Time: 11:25

Purge Start Time: 10:55  
 Total Volume Purged (mL): 7500

**Field Parameters**

STABILIZED PARAMETERS	
pH	4.51
Spec. Cond. (µS/cm)	54.17
Turbidity (NTU)	1.45
Temp. (°C)	17.26
DO (mg/L)	4.43
ORP (mV)	261.60

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

Sample ID: CAP2Q22-PW-06-041122  
 DuplicateID: CAP2Q22-PW-06-041122-D  
 QA/QC: MS/MSD/D

ALL PARAMETERS ANALYZED
537 MOD (13 PFAs); Table 3+(20) HL Include HFPO-DA

WEATHER CONDITIONS	
Temperature (F):	70.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	9



**RECORD OF WELL SAMPLING**

Site Name: Chemours Fayetteville  
 Samplers: KIRSTEN GARD/VALERIA GOFIGAN-MCKENNA

Well ID: PW-07  
 Event: Quarterly CAP

Well Diameter: 2 Inches  
 Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 42  
 Pump Loc: bottom of well

Method: Bailer Date: 04-12-2022 Time: 10:15

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water ) x Casing Volume per Foot			
Water Volume =	0.2		
Initial Depth to Water (ft.):	41.25	Depth to Well Bottom (ft.):	42.5

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			
10:15	41.25	--	0.00	5.64	5.91	210.50	69.24	57.53	25.07	Clear	None	Purged 200 mL. Well is being considered dry due to only being able to purge 200 ml per day.

Screen Interval:

28 - 38

Tote #	Call Suez?	Processing?	Tote Volume (Gal)	Location if not Suez
--	--	--	--	--

**Sampling Data**

Method: --  
 Field Filtered: --

Date: -- Time: --

Purge Start Time: --  
 Total Volume Purged (mL): --

**Field Parameters**

STABILIZED PARAMETERS	
pH	5.64
Spec. Cond. (µS/cm)	57.53
Turbidity (NTU)	69.24
Temp. (°C)	25.07
DO (mg/L)	5.91
ORP (mV)	210.50

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

Sample ID: --  
 DuplicateID: --  
 QA/QC: --

ALL PARAMETERS ANALYZED
--

WEATHER CONDITIONS	
Temperature (F):	72.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	17

**RECORD OF WELL SAMPLING**

Site Name: Chemours Fayetteville Well ID: PW-09 Well Diameter: 2 Inches  
 Samplers: CHARLES PACE|TAYLOR CRITTENDEN Event: Quarterly CAP Project Manager: Tracy Ovbey

**Purging Data**  
 Pump Depth: 45  
 Pump Loc: within screen  
 Method: Double valve pump Date: 04-28-2022 Time: 11:10

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water ) x Casing Volume per Foot			
Water Volume =	5.179		
Initial Depth to Water (ft.):	25.29	Depth to Well Bottom (ft.):	57.66

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			
11:15	27.41	490.00	2940.00	11.28	1.30	54.90	9.28	802.58	17.51	Clear	No	
11:20	29.65	490.00	2450.00	11.3	1.24	36.60	12.18	796.18	17.45	Clear	No	
11:25	30.23	490.00	2450.00	11.05	0.99	18.70	63.14	358.39	17.46	Cloudy	No	
11:30	31.05	490.00	2450.00	10.16	0.68	35.00	100.38	181.26	17.49	Cloudy	No	
11:35	31.27	490.00	2450.00	9.7	0.46	40.30	101.10	146.92	17.54	Cloudy	No	
11:40	31.41	490.00	2450.00	9.27	0.30	24.40	114.39	127.06	17.59	Clear	No	
11:45	31.56	490.00	2450.00	8.71	0.20	-167.20	111.01	112.78	17.74	Clear	No	
11:50	31.58	490.00	2450.00	8.26	0.17	-180.70	134.53	108.46	17.77	Cloudy	No	
11:55	31.55	490.00	2450.00	7.91	0.20	-153.80	131.28	103.51	17.73	Cloudy	No	
12:00	31.55	490.00	2450.00	7.66	0.23	-132.30	131.32	99.16	17.71	Cloudy	No	
12:05	31.58	490.00	2450.00	7.47	0.25	-112.20	83.71	96.71	17.61	Cloudy	No	
12:10	31.58	490.00	2450.00	7.33	0.24	-98.70	81.65	94.43	17.63	Cloudy	No	
12:15	31.59	490.00	2450.00	7.28	0.27	-92.60	81.70	92.66	17.70	Cloudy	No	
12:20	33.26	700.00	3500.00	9.5	3.38	-123.50	61.96	119.39	17.56	Cloudy	No	
12:25	34.11	700.00	3500.00	9.18	2.65	-92.00	95.48	110.54	17.56	Cloudy	No	
12:30	34.73	700.00	3500.00	8.32	2.13	-125.80	95.45	100.39	17.68	Cloudy	No	
12:35	35.03	700.00	3500.00	7.41	1.71	-81.10	105.03	91.84	17.70	Cloudy	No	
12:40	35.51	700.00	3500.00	7.15	1.48	-59.90	98.13	87.41	17.57	Clear	No	
12:45	--	700.00	3500.00	7.03	1.18	-53.00	80.51	85.18	17.73	Cloudy	No	
12:50	35.55	700.00	3500.00	6.99	1.14	-48.70	74.00	82.42	17.72	Cloudy	No	

Screen Interval:

44 - 54

Tote #	Call Suez?	Processing?	Tote Volume (Gal)	Location if not Suez
--	--	--	--	--

**Sampling Data**

Method: Five Well Volume Date: -- Time: --  
 Field Filtered: --

Purge Start Time: 11:09  
 Total Volume Purged (mL): 56840

**Field Parameters**

STABILIZED PARAMETERS	
pH	--
Spec. Cond. (µS/cm)	--
Turbidity (NTU)	--
Temp. (°C)	--
DO (mg/L)	--
ORP (mV)	--

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

Sample ID: --  
 DuplicateID: --  
 QA/QC: --

ALL PARAMETERS ANALYZED
--

WEATHER CONDITIONS	
Temperature (F):	63.00

Sky:

Sunny

Precipitation:

None

Wind (mph)

9

**RECORD OF WELL SAMPLING**

Site Name: Chemours Fayetteville Well ID: PW-09 Well Diameter: 2 Inches  
 Samplers: CHARLES PACE|TAYLOR CRITTENDEN Event: Quarterly CAP Project Manager: Tracy Ovbey

**Purging Data**  
 Pump Depth: 45  
 Pump Loc: within screen  
 Method: Double valve pump Date: 04-28-2022 Time: 11:00

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water ) x Casing Volume per Foot			
Water Volume =	5.179		
Initial Depth to Water (ft.):	25.29	Depth to Well Bottom (ft.):	57.66

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			
12:55	35.58	700.00	3500.00	6.96	1.12	-46.90	84.54	81.85	17.66	Cloudy	No	
13:00	35.58	700.00	3500.00	6.79	1.08	-35.70	93.82	81.35	17.77	Cloudy	No	
13:05	35.58	700.00	3500.00	6.8	1.11	-36.90	85.19	79.79	17.66	Cloudy	No	
13:10	35.60	700.00	3500.00	6.7	1.14	-31.20	79.08	79.07	17.96	Cloudy	No	
13:15	35.60	700.00	3500.00	6.83	1.09	-38.20	71.59	78.98	17.70	Cloudy	No	
13:20	35.65	700.00	3500.00	6.68	1.19	-28.40	76.76	77.97	17.94	Cloudy	No	
13:25	35.65	700.00	3500.00	6.66	0.94	-26.80	70.69	77.32	17.91	Cloudy	No	
13:30	35.71	700.00	3500.00	6.79	1.16	-35.20	58.17	77.44	17.67	Cloudy	No	
13:35	35.65	700.00	3500.00	6.65	1.20	-27.10	76.90	77.33	17.73	Cloudy	No	
13:40	35.65	700.00	3500.00	6.64	0.85	-28.50	75.12	77.30	17.84	Cloudy	No	
13:45	35.65	700.00	3500.00	6.66	1.13	-27.80	85.01	78.12	17.79	Cloudy	No	
13:50	35.65	700.00	3500.00	6.65	1.04	-27.30	65.59	76.72	17.79	Cloudy	No	
13:55	35.65	700.00	3500.00	6.72	1.07	-33.70	57.63	76.33	17.66	Clear	No	Purged five well volumes. Sampling

Screen Interval:

44 - 54

Tote #	Call Suez?	Processing?	Tote Volume (Gal)	Location if not Suez
--	--	--	--	--

**Sampling Data**

Method: Low Flow Date: 04-28-2022 Time: 13:55  
 Field Filtered: Yes Purge Start Time: 11:09  
 Total Volume Purged (mL): 102340

**Field Parameters**

STABILIZED PARAMETERS	
pH	--
Spec. Cond. (µS/cm)	--
Turbidity (NTU)	--
Temp. (°C)	--
DO (mg/L)	--
ORP (mV)	--

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

Sample ID: CAP2Q22-PW-09-042822  
 DuplicatelD: CAP2Q22-PW-09-042822-Z  
 QA/QC:

ALL PARAMETERS ANALYZED
Table 3+ (20)(HL) Including HFPO-DA 537 MOD (13) PFCAs

WEATHER CONDITIONS	
Temperature (F):	70.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	8

**RECORD OF WELL SAMPLING**

Site Name: Chemours Fayetteville  
 Samplers: KIRSTEN GARD/VALERIA GOFIGAN-MCKENNA

Well ID: PZ-22  
 Event: Quarterly CAP

Well Diameter: 0.75 Inches  
 Project Manager: Tracy Ovbey

**Purging Data**  
 Pump Depth: 45  
 Pump Loc: within screen  
 Method: Peristaltic Pump Date: 04-13-2022 Time: 15:30

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water ) x Casing Volume per Foot			
Water Volume =	--		
Initial Depth to Water (ft.):	7.11	Depth to Well Bottom (ft.):	49.92

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			
15:50	7.11	200.00	3800.00	5.44	0.19	162.50	9.92	101.00	19.30	Clear	None	
16:00		200.00	2000.00	5.32	0.15	164.80	5.77	101.40	19.30	Clear	None	
16:05		200.00	1000.00	5.18	0.14	165.90	4.21	101.30	19.10	Clear	None	
16:10		200.00	1000.00	4.99	0.13	161.00	2.74	101.40	18.90	Clear	None	
16:15		200.00	1000.00	4.9	0.12	158.80	1.87	101.40	18.90	Clear	None	
16:20		200.00	1000.00	4.92	0.12	155.30	1.84	101.20	18.90	Clear	None	

Screen Interval:

36.0-46.0

Tote #	Call Suez?	Processing?	Tote Volume (Gal)	Location if not Suez
--	--	--	--	--

**Sampling Data**

Method: Low Flow  
 Field Filtered: No

Date: 04-13-2022 Time: 16:30

Purge Start Time: 15:31  
 Total Volume Purged (mL): 9800

**Field Parameters**

STABILIZED PARAMETERS	
pH	4.92
Spec. Cond. (µS/cm)	101.20
Turbidity (NTU)	1.84
Temp. (°C)	18.90
DO (mg/L)	0.12
ORP (mV)	155.30

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

Sample ID: CAP2Q22-PZ-22-041322  
 DuplicateID:  
 QA/QC:

**ALL PARAMETERS ANALYZED**

537 MOD (13 PFACAs); Table 3+(20) HL Include HFPO-DA

WEATHER CONDITIONS	
Temperature (F):	81.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	12

**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="RIVER WATER INTAKE2"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="CHRIS MCGINNESS\VALERIA GOFIGAN-MCKENNA"/>	Sampling Event: <input type="text" value="Quarterly CAP"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="04-19-2022"/>	Time: <input type="text" value="14:26"/>	General Comments: <input type="text"/>

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
				mg/L	mV	NTU	µS/cm	°C				
RIVER-WATER-INTAKE2-24-042022	04-20-2022	00:06	6.99	8.37	434.10	10.54	131.27	20.32	Clear	No		

**Sampling Data**

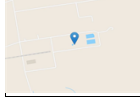
Sampling Method: <input type="text" value="ISCO Composite"/>	Multi Meter Used: <input type="text" value="Insitu Aqua Troll"/>
ISCO Start Date and Time: <input type="text" value="04-19-2022 01:06"/>	Multi Meter ID: <input type="text" value="706682"/>
ISCO End Date and Time: <input type="text" value="04-20-2022 00:06"/>	Old Outfall Bypass(Yes/No): <input type="text" value="--"/>

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	537 Mod Including HFPO-DA
PFAS	250 mL poly	NP	Table 3+ (19)(LL)
PFAS	250 mL poly	NP	Table 3+ (20)(LL)
PFAS	250 mL poly	NP	Table 3+ (19)(HL)
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

ALL PARAMETERS ANALYZED
537 MOD (13 PFCAs); Table 3+(20) LL Include HFPO-DA

WEATHER CONDITIONS	
Temperature (F):	54.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	14

Latitude:	<input type="text" value="34.8434933440338"/>
Longitude:	<input type="text" value="-78.8353798139734"/>


GPS Location (if collected)

--

--

**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="SEEP-A-EFF"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="CHRIS MCGINNESS\VALERIA GOFIGAN-MCKENNA"/>	Sampling Event: <input type="text" value="Quarterly CAP"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="04-19-2022"/>	Time: <input type="text" value="12:50"/>	General Comments: <input type="text"/>

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
				mg/L	mV	NTU	µS/cm	°C				
CAP2022-SEEP-A-EFF-24-042022	04-20-2022	00:48	4.70	2.31	185.20	0.00	131.06	14.90	Clear	No		

**Sampling Data**

Sampling Method: <input type="text" value="ISCO Composite"/>	Multi Meter Used: <input type="text" value="Insitu Aqua Troll"/>
ISCO Start Date and Time: <input type="text" value="04-19-2022 01:48"/>	Multi Meter ID: <input type="text" value="706682"/>
ISCO End Date and Time: <input type="text" value="04-20-2022 00:48"/>	Old Outfall Bypass(Yes/No): <input type="text" value="No"/>

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	537 Mod Including HFPO-DA
PFAS	250 mL poly	NP	Table 3+ (19)(LL)
PFAS	250 mL poly	NP	Table 3+ (20)(LL)
PFAS	250 mL poly	NP	Table 3+ (19)(HL)
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

ALL PARAMETERS ANALYZED
537 MOD (13 PFCAs); Table 3+(20) LL Include HFPO-DA

WEATHER CONDITIONS	
Temperature (F):	55.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	11

Latitude:	<input type="text" value="--"/>
Longitude:	<input type="text" value="--"/>

<input type="text"/>
GPS Location (if collected)

<input type="text"/>
<input type="text"/>

<input type="text"/>
<input type="text"/>

**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="SEEP-B-EFF"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="CHRIS MCGINNESS\VALERIA GOFIGAN-MCKENNA"/>	Sampling Event: <input type="text" value="Quarterly CAP"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="04-19-2022"/>	Time: <input type="text" value="10:03"/>	General Comments: <input type="text"/>

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
				mg/L	mV	NTU	µS/cm	°C				
CAP2Q22-SEEP-B-EFF-24-042022	4/20/2022	1:12	6.13	3.59	141.20	0.00	134.73	15.11	Clear	No		

**Sampling Data**

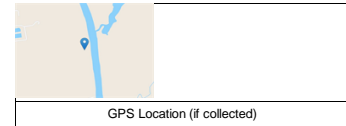
Sampling Method: <input type="text" value="ISCO Composite"/>	Multi Meter Used: <input type="text" value="Insitu Aqua Troll"/>
ISCO Start Date and Time: <input type="text" value="4/19/2022 2:12"/>	Multi Meter ID: <input type="text" value="706682"/>
ISCO End Date and Time: <input type="text" value="4/20/2022 1:12"/>	Old Outfall Bypass(Yes/No): <input type="text" value="No"/>

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	537 Mod Including HFPO-DA
PFAS	250 mL poly	NP	Table 3+ (19)(LL)
PFAS	250 mL poly	NP	Table 3+ (20)(LL)
PFAS	250 mL poly	NP	Table 3+ (19)(HL)
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

ALL PARAMETERS ANALYZED
537 MOD (13 PFCAs); Table 3+(20) LL Include HFPO-DA

WEATHER CONDITIONS	
Temperature (F):	52.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	11

Latitude:	<input type="text" value="34.8422381590449"/>
Longitude:	<input type="text" value="-78.8250383412338"/>





**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="SEEP-C-EFF"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="CHRIS MCGINNESS\VALERIA GOFIGAN-MCKENNA"/>	Sampling Event: <input type="text" value="Quarterly CAP"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="04-19-2022"/>	Time: <input type="text" value="10:31"/>	General Comments: <input type="text"/>

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
CAP2Q22-SEEP-C-EFF-24-042022	4/20/2022	1:48	6.62	4.44	8.40	0.00	118.32	17.10	Clear	No		

**Sampling Data**

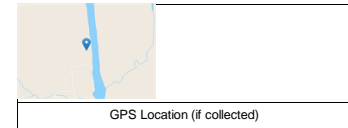
Sampling Method: <input type="text" value="ISCO Composite"/>	Multi Meter Used: <input type="text" value="Insitu Aqua Troll"/>
ISCO Start Date and Time: <input type="text" value="4/19/2022 2:48"/>	Multi Meter ID: <input type="text" value="706682"/>
ISCO End Date and Time: <input type="text" value="4/20/2022 1:48"/>	Old Outfall Bypass(Yes/No): <input type="text" value="No"/>

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	537 Mod Including HFPO-DA
PFAS	250 mL poly	NP	Table 3+ (19)(LL)
PFAS	250 mL poly	NP	Table 3+ (20)(LL)
PFAS	250 mL poly	NP	Table 3+ (19)(HL)
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

ALL PARAMETERS ANALYZED
537 MOD (13 PFCAs); Table 3+(20) LL Include HFPO-DA

WEATHER CONDITIONS	
Temperature (F):	54.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	12

Latitude:	<input type="text" value="34.8384012902635"/>
Longitude:	<input type="text" value="-78.8243804438727"/>



**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="SEEP-D-EFF"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="CHRIS MCGINNESS\VALERIA GOFIGAN-MCKENNA"/>	Sampling Event: <input type="text" value="Quarterly CAP"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="04-19-2022"/>	Time: <input type="text" value="10:44"/>	General Comments: <input type="text"/>

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
				mg/L	mV	NTU	µS/cm	°C				
CAP2Q22-SEEP-D-EFF-24-042022	4/20/2022	1:54	6.33	3.18	27.80	0.00	133.19	15.70	Clear	No	MS/MSD/D	

**Sampling Data**

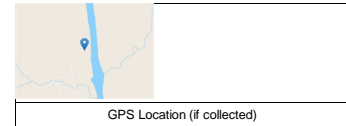
Sampling Method: <input type="text" value="ISCO Composite"/>	Multi Meter Used: <input type="text" value="Insitu Aqua Troll"/>
ISCO Start Date and Time: <input type="text" value="4/19/2022 2:54"/>	Multi Meter ID: <input type="text" value="706682"/>
ISCO End Date and Time: <input type="text" value="4/20/2022 1:54"/>	Old Outfall Bypass(Yes/No): <input type="text" value="No"/>

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	537 Mod Including HFPO-DA
PFAS	250 mL poly	NP	Table 3+ (19)(LL)
PFAS	250 mL poly	NP	Table 3+ (20)(LL)
PFAS	250 mL poly	NP	Table 3+ (19)(HL)
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

ALL PARAMETERS ANALYZED
537 MOD (13 PFCAs); Table 3+(20) LL Include HFPO-DA

WEATHER CONDITIONS	
Temperature (F):	54.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	12

Latitude:	<input type="text" value="34.8368497645373"/>
Longitude:	<input type="text" value="-78.8244211909551"/>



**RECORD OF WELL SAMPLING**

Site Name:   
 Samplers:

Well ID:   
 Event:

Well Diameter:  Inches  
 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 =	3.701		
Initial Depth to Water (ft.):	29.62	Depth to Well Bottom (ft.):	52.75

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			
13:05	29.63	200.00	2400.00	4.8	0.53	194.40	300.52	67.05	20.30	Clear	None	
13:10	29.65	200.00	1000.00	4.47	0.44	178.40	242.70	51.60	20.07	Clear	None	
13:15	29.65	200.00	1000.00	4.75	0.33	161.80	179.13	52.52	19.93	Clear	None	
13:20	29.65	200.00	1000.00	4.75	0.37	137.40	151.97	67.25	19.79	Clear	None	
13:25	29.65	200.00	1000.00	4.71	0.28	122.70	106.96	74.73	19.71	Clear	None	
13:30	29.65	200.00	1000.00	4.71	0.21	116.60	90.31	61.99	19.90	Clear	None	
13:35	29.65	200.00	1000.00	4.72	0.24	108.80	101.41	56.98	19.73	Clear	None	
13:40	29.65	200.00	1000.00	4.73	0.21	103.30	95.66	43.28	19.80	Clear	None	
13:45	29.65	200.00	1000.00	4.76	0.11	100.60	75.99	57.62	19.81	Clear	None	
13:50	29.65	200.00	1000.00	4.78	0.14	97.20	76.56	58.00	19.75	Clear	None	
13:55	29.65	200.00	1000.00	4.86	0.11	90.10	84.45	49.76	19.81	Clear	None	
14:00	29.65	200.00	1000.00	4.9	0.19	86.40	95.39	66.03	19.66	Clear	None	
14:05	29.65	200.00	1000.00	4.94	0.09	83.40	139.40	61.68	19.80	Clear	None	
14:10	29.65	200.00	1000.00	4.98	0.08	80.30	202.70	56.32	19.70	Clear	None	
14:15	29.65	200.00	1000.00	5.04	0.05	75.00	192.84	50.60	19.60	Clear	None	
14:20	29.65	200.00	1000.00	5.04	0.10	75.40	228.53	58.78	19.75	Clear	None	
14:24	29.65	200.00	800.00	5.29	0.35	118.20	1.73	84.22	19.63	Clear	None	
14:30	29.65	200.00	1200.00	5.05	0.20	101.60	1.66	81.15	19.49	Clear	None	
14:35	29.65	200.00	1000.00	5.09	0.13	89.30	2.01	79.75	19.53	Clear	None	
14:40	29.65	200.00	1000.00	5.13	0.07	72.70	2.63	79.43	19.80	Clear	None	
14:45	29.65	200.00	1000.00	5.19	0.07	71.40	1.56	80.06	19.91	Clear	None	
14:50	29.65	200.00	1000.00	5.21	0.07	70.60	1.88	79.79	20.01	Clear	None	
14:55	29.65	200.00	1000.00	5.26	0.07	64.70	2.45	79.92	19.96	Clear	None	

Screen Interval:

Tote #	Call Suez?	Processing?	Tote Volume (Gal)	Location if not Suez
--	--	--	--	--

**Sampling Data**

Method:   
 Field Filtered:

Date:  Time:

Purge Start Time:   
 Total Volume Purged (mL):

**Field Parameters**

STABILIZED PARAMETERS	
pH	5.26
Spec. Cond.(µS/cm)	79.92
Turbidity (NTU)	2.45
Temp.(°C)	19.96
DO (mg/L)	0.07
ORP (mV)	64.70

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

Sample ID:   
 DuplicateID:   
 QA/QC:

ALL PARAMETERS ANALYZED
537 MOD (13 PFAs); Table 3+(20) LL Include HFPO-DA

WEATHER CONDITIONS	
Temperature (F):	79.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	13

**RECORD OF WELL SAMPLING**

Site Name: Chemours Fayetteville  
 Samplers: KIRSTEN GARD/VALERIA GOFIGAN-MCKENNA

Well ID: SMW-11  
 Event: Quarterly CAP

Well Diameter: 2 Inches  
 Project Manager: Tracy Ovbey

**Purging Data**  
 Pump Depth: 18  
 Pump Loc: within screen  
 Method: Peristaltic Pump Date: 04-12-2022 Time: 14:10

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water ) x Casing Volume per Foot			
Water Volume =	1.877		
Initial Depth to Water (ft.):	14.03	Depth to Well Bottom (ft.):	25.76

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	14.03	150.00	0.00	4.12	4.82	379.70	0.59	48.50	18.80	Clear	None	
14:20	14.11	150.00	750.00	4.11	4.66	392.00	2.06	48.84	18.46	Clear	None	
14:25	14.11	150.00	750.00	4.15	4.70	394.80	1.86	48.64	18.31	Clear	None	

Screen Interval:

13 to 23

Tote #	Call Suez?	Processing?	Tote Volume (Gal)	Location if not Suez
--	--	--	--	--

**Sampling Data**

Method: Low Flow  
 Field Filtered: No

Date: 04-12-2022 Time: 14:25

Purge Start Time: 14:15  
 Total Volume Purged (mL): 1500

**Field Parameters**

STABILIZED PARAMETERS	
pH	4.15
Spec. Cond. (µS/cm)	48.64
Turbidity (NTU)	1.86
Temp. (°C)	18.31
DO (mg/L)	4.70
ORP (mV)	394.80

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

Sample ID: CAP2Q22-SMW-11-041222  
 Duplicate ID:  
 QA/QC:

ALL PARAMETERS ANALYZED
537 MOD (13 PFCAs); Table 3+(20) HL Include HFPO-DA

WEATHER CONDITIONS	
Temperature (F):	84.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	15

### RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville Well ID: SMW-12 Well Diameter: 2 Inches  
 Samplers: MATT SCHEUER|TAYLOR CRITTENDEN Event: Quarterly CAP Project Manager: Tracy Ovbey

**Purging Data**  
 Pump Depth: 95  
 Pump Loc: within screen  
 Method: Double Valve Date: 04-27-2022 Time: 14:50

WATER VOLUME CALCULATION		
= (Total Depth of Well - Depth To Water ) x Casing Volume per Foot		
Water Volume =	<span style="border: 1px solid black; padding: 2px;">2.854</span>	
Initial Depth to Water (ft.):	<span style="border: 1px solid black; padding: 2px;">84.15</span>	Depth to Well Bottom (ft.): <span style="border: 1px solid black; padding: 2px;">101.99</span>

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			
15:15	84.28	420.00	1680.00	3.64	0.31	134.00	91.75	235.31	18.31	Cloudy	Yes	
15:20	84.20	250.00	1250.00	3.49	0.60	153.60	40.76	233.60	18.51	Cloudy	Yes	
15:25	84.21	250.00	1250.00	3.46	0.49	156.70	28.84	233.97	18.34	Cloudy	No	
15:30	84.24	250.00	1250.00	3.49	0.48	155.90	15.98	235.89	18.24	Clear	No	
15:35	84.20	250.00	1250.00	3.5	0.49	154.10	14.03	234.66	18.22	Clear	No	
15:40	84.20	250.00	1250.00	3.54	0.45	151.40	10.95	234.59	18.13	Clear	No	

Screen Interval:

88 to 98

Tote #	Call Suez?	Processing?	Tote Volume (Gal)	Location if not Suez
--	--	--	--	--

**Sampling Data**

Method: Low Flow Date: 04-27-2022 Time: 15:40 Purge Start Time: 15:11  
 Field Filtered: No Total Volume Purged (mL): 7930

**Field Parameters**

STABILIZED PARAMETERS	
pH	<span style="border: 1px solid black; padding: 2px;">3.54</span>
Spec. Cond. (µS/cm)	<span style="border: 1px solid black; padding: 2px;">234.59</span>
Turbidity (NTU)	<span style="border: 1px solid black; padding: 2px;">10.95</span>
Temp. (°C)	<span style="border: 1px solid black; padding: 2px;">18.13</span>
DO (mg/L)	<span style="border: 1px solid black; padding: 2px;">0.45</span>
ORP (mV)	<span style="border: 1px solid black; padding: 2px;">151.40</span>

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

Sample ID: CAP2Q22-SMW-12-042722  
 Duplicate ID:    
 QA/QC:  

ALL PARAMETERS ANALYZED
Table 3+ (20)(HL) Including HFPO-DA 537 MOD (13) PFCAs

WEATHER CONDITIONS	
Temperature (F):	<span style="border: 1px solid black; padding: 2px;">71.00</span>
Sky:	<span style="border: 1px solid black; padding: 2px;">Sunny</span>
Precipitation:	<span style="border: 1px solid black; padding: 2px;">None</span>
Wind (mph)	<span style="border: 1px solid black; padding: 2px;">10</span>

**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="WC-1"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="CHARLES PACE TAYLOR CRITTENDEN "/>	Sampling Event: <input type="text" value="Quarterly CAP"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="04-26-2022"/>	Time: <input type="text" value="14:59"/>	General Comments: <input type="text"/>

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
				mg/L	mV	NTU	µS/cm	°C				
CAP2022-WC-1-24-042622	04-26-2022	13:35	4.60	7.18	228.80	4.61	88.87	26.75	Clear	No		

**Sampling Data**

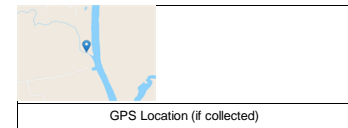
Sampling Method: <input type="text" value="ISCO Composite"/>	Multi Meter Used: <input type="text" value="Insitu Aqua Troll"/>
ISCO Start Date and Time: <input type="text" value="04-25-2022 14:35"/>	Multi Meter ID: <input type="text" value="706682"/>
ISCO End Date and Time: <input type="text" value="04-26-2022 13:35"/>	Old Outfall Bypass(Yes/No): <input type="text" value="No"/>

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	537 Mod Including HFPO-DA
PFAS	250 mL poly	NP	Table 3+ (19)(LL)
PFAS	250 mL poly	NP	Table 3+ (20)(LL)
PFAS	250 mL poly	NP	Table 3+ (19)(HL)
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HFPO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HFPO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

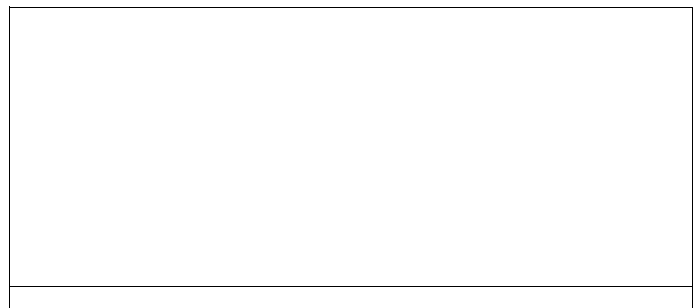
ALL PARAMETERS ANALYZED
Table 3+ (20)(LL) Including HFPO-DA; 537 MOD (13) PFCAs

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

Latitude:   
 Longitude:



Sample and flow location



# **Appendix D**

## **Laboratory Reports and DVM Report**





## **ADQM Data Review**

**Site: Chemours Fayetteville**

**Project: CAP SW Sampling 2Q22**

**Project Reviewer: Brandon Cordova**

## Sample Summary

Field Sample ID	Lab Sample ID	Sample Matrix	Filtered	Sample Date	Sample Time	Sample Purpose
CAP2Q22-LOCK-DAM-SEEP-041922	320-87040-1	Surface Water	N	04/19/2022	13:40	FS
CAP2Q22-CFR-RM-76-041922	320-87040-2	Surface Water	N	04/19/2022	10:30	FS
CAP2Q22-CFR-BLADEN-041922	320-87040-3	Surface Water	N	04/19/2022	15:30	FS
CAP2Q22-CFR-TARHEEL-041922	320-87040-4	Surface Water	N	04/19/2022	17:05	FS
CAP2Q22-GBC-1-041922	320-87040-5	Surface Water	N	04/19/2022	16:25	FS
CAP2Q22-EQBLK-PP-041922	320-87040-6	Blank Water	N	04/19/2022	16:00	EB
CAP2Q22-OUTFALL-002-24-042022	320-87040-7	Surface Water	N	04/20/2022	01:36	FS
RIVER-WATER-INTAKE2-24-042022	320-87040-8	Surface Water	N	04/20/2022	00:06	FS
CAP2Q22-SEEP-A-EFF-24-042022	320-87042-1	Other liquid	N	04/20/2022	00:48	FS
CAP2Q22-SEEP-B-EFF-24-042022	320-87042-2	Other liquid	N	04/20/2022	01:12	FS
CAP2Q22-SEEP-C-EFF-24-042022	320-87042-3	Other liquid	N	04/20/2022	01:48	FS
CAP2Q22-SEEP-D-EFF-24-042022	320-87042-4	Other liquid	N	04/20/2022	01:54	FS
CAP2Q22-SEEP-D-EFF-24-042022-D	320-87042-5	Other liquid	N	04/20/2022	01:54	DUP
CAP2Q22-EQBLK-IS-042022	320-87042-6	Blank Water	N	04/20/2022	14:00	EB
CAP2Q22-FBLK-042022	320-87042-7	Blank Water	N	04/20/2022	14:05	FB
CAP2Q22-CFR-KINGS-042122	320-87069-1	Surface Water	N	04/21/2022	11:45	FS
CAP2Q22-CFR-TARHEEL-24-042022	320-87069-2	Surface Water	N	04/20/2022	16:33	FS
CAP2Q22-WC-1-24-042622	320-87316-1	Surface Water	N	04/26/2022	13:35	FS
CAP2Q22-OLDOF-1-24-042622	320-87316-2	Surface Water	N	04/26/2022	12:56	FS

\* FS=Field Sample  
 DUP=Field Duplicate  
 FB=Field Blank  
 EB=Equipment Blank  
 TB=Trip Blank

## Analytical Protocol

Lab Name	Lab Method	Parameter Name	Sampling Program
Eurofins Environ Testing Northern Cali	537 Modified	Perfluorobutanoic Acid	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	537 Modified	Perfluorodecanoic Acid	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	537 Modified	Perfluorododecanoic Acid	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	537 Modified	Perfluoroheptanoic Acid	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	537 Modified	Perfluorohexadecanoic Acid (PFHxDA)	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	537 Modified	Perfluorohexanoic Acid	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	537 Modified	Perfluorononanoic Acid	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	537 Modified	Perfluorooctadecanoic Acid	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	537 Modified	Perfluoropentanoic Acid	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	537 Modified	Perfluorotetradecanoic Acid	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	537 Modified	Perfluorotridecanoic Acid	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	537 Modified	Perfluoroundecanoic Acid	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	537 Modified	PFOA	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	EVE Acid	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	Hfpo Dimer Acid	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	Hydro-PS Acid	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	Hydrolyzed PSDA	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	NVHOS, Salt Form	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	PEPA	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	Perfluoro(2-ethoxyethane)sulfonic Acid	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	PFECA B	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	PFECA-G	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	PFMOAA	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	PFO2HxA	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	PFO3OA	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	PFO4DA	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	PFO5DA	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	PMPA	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	PS Acid	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	R-EVE	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	R-PSDA	CAP SW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	R-PSDCA	CAP SW Sampling 2Q22

## ADQM Data Review Checklist

Item	Description	Yes	No*	Not Applicable (NA)*	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					
E	Were QA/QC criteria met by the laboratory (method blanks, LCSs/LCSDs, MSs/MSDs, PDSs, SDs, duplicates/replicates, surrogates, total/dissolved differences/RPDs, sample results within calibration range)?		X		X	X	
F	Were detections in field/equipment/trip blanks at levels not requiring sample data qualification?	X					
G	Were all data usable and not R qualified?	X					
<b>ER#</b>	<b>Description</b>						
<b>Other QA/QC Items to Note:</b>							

\* 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

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 2Q22

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
CAP2Q22-SEEP-D-EFF-24-042022	04/20/2022	320-87042-4	NVHOS, Salt Form	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-SEEP-D-EFF-24-042022	04/20/2022	320-87042-4	PMPA	0.010	UG/L	PQL		0.010	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-SEEP-D-EFF-24-042022	04/20/2022	320-87042-4	R-PSDA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-SEEP-D-EFF-24-042022	04/20/2022	320-87042-4	Hydrolyzed PSDA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-SEEP-D-EFF-24-042022	04/20/2022	320-87042-4	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville

Sampling Program: CAP SW Sampling 2Q22

Validation Options:

LABSTATS

Validation Reason Code: The preparation hold time for this sample was exceeded. The reporting limit 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
CAP2Q22-OLDOF-1-24-042622	04/26/2022	320-87316-2	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP2Q22-WC-1-24-042622	04/26/2022	320-87316-1	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535

Site: Fayetteville

Sampling Program: CAP SW Sampling 2Q22

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
CAP2Q22-CFR-TARHEEL-24-042022	04/20/2022	320-87069-2	NVHOS, Salt Form	0.011	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-CFR-TARHEEL-24-042022	04/20/2022	320-87069-2	Hfpo Dimer Acid	0.0041	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-CFR-TARHEEL-24-042022	04/20/2022	320-87069-2	R-PSDA	0.024	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-CFR-TARHEEL-24-042022	04/20/2022	320-87069-2	Hydrolyzed PSDA	0.010	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-CFR-TARHEEL-24-042022	04/20/2022	320-87069-2	R-EVE	0.0050	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-CFR-TARHEEL-24-042022	04/20/2022	320-87069-2	PFO2HxA	0.0093	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-CFR-TARHEEL-24-042022	04/20/2022	320-87069-2	PFO3OA	0.0028	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-CFR-TARHEEL-24-042022	04/20/2022	320-87069-2	PFMOAA	0.019	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep



**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
CAP2Q22-WC-1-24-042622	04/26/2022	320-87316-1	R-PSDA	0.049	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-WC-1-24-042622	04/26/2022	320-87316-1	Hydrolyzed PSDA	0.31	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-WC-1-24-042622	04/26/2022	320-87316-1	R-EVE	0.025	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
RIVER-WATER-INTAKE2-24-042022	04/20/2022	320-87040-8	R-PSDA	0.0050	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
RIVER-WATER-INTAKE2-24-042022	04/20/2022	320-87040-8	R-EVE	0.0021	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-OLDOF-1-24-042622	04/26/2022	320-87316-2	R-PSDA	0.0093	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-OLDOF-1-24-042622	04/26/2022	320-87316-2	Hydrolyzed PSDA	0.010	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-OUTFALL-002-24-042022	04/20/2022	320-87040-7	R-PSDA	0.0049	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-OUTFALL-002-24-042022	04/20/2022	320-87040-7	Hydrolyzed PSDA	0.0044	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-SEEP-A-EFF-24-042022	04/20/2022	320-87042-1	R-PSDA	0.0036	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-SEEP-A-EFF-24-042022	04/20/2022	320-87042-1	Hydrolyzed PSDA	0.023	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-CFR-BLADEN-041922	04/19/2022	320-87040-3	R-PSDA	0.0034	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-CFR-BLADEN-041922	04/19/2022	320-87040-3	Hydrolyzed PSDA	0.0025	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-CFR-KINGS-042122	04/21/2022	320-87069-1	R-PSDA	0.0038	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-CFR-TARHEEL-041922	04/19/2022	320-87040-4	R-PSDA	0.0039	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-CFR-TARHEEL-041922	04/19/2022	320-87040-4	Hydrolyzed PSDA	0.0022	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-GBC-1-041922	04/19/2022	320-87040-5	R-PSDA	0.012	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-GBC-1-041922	04/19/2022	320-87040-5	R-EVE	0.0057	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-LOCK-DAM-SEEP-041922	04/19/2022	320-87040-1	R-PSDA	0.40	UG/L	PQL		0.035	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-LOCK-DAM-SEEP-041922	04/19/2022	320-87040-1	Hydrolyzed PSDA	0.35	UG/L	PQL		0.019	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-LOCK-DAM-SEEP-041922	04/19/2022	320-87040-1	R-EVE	0.13	UG/L	PQL		0.036	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville

Sampling Program: CAP SW Sampling 2Q22

Validation Options: LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit but above the rejection 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
CAP2Q22-SEEP-D-EFF-24-042022	04/20/2022	320-87042-4	PFO2HxA	0.0035	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

## **ADQM Data Review**

**Site: Chemours Fayetteville**

**Project: Tarheel Sampling 2Q22**

**Project Reviewer: Michael Aucoin**

## Sample Summary

Field Sample ID	Lab Sample ID	Sample Matrix	Filtered	Sample Date	Sample Time	Sample Purpose
CFR-TARHEEL-24-040422	320-86723-1	Surface Water	N	04/04/2022	23:01	FS
CFR-TARHEEL-24-040722	320-86723-2	Surface Water	N	04/07/2022	23:01	FS
CFR-TARHEEL-24-041122	320-86723-3	Surface Water	N	04/11/2022	23:01	FS
CFR-TARHEEL-24-041122-D	320-86723-4	Surface Water	N	04/11/2022	23:01	DUP
CFR-TARHEEL-24-041522	320-87320-1	Surface Water	N	04/15/2022	23:01	FS
CFR-TARHEEL-24-042122	320-87320-2	Surface Water	N	04/21/2022	23:01	FS
CFR-TARHEEL-24-042222	320-87320-3	Surface Water	N	04/22/2022	23:01	FS
CFR-TARHEEL-24-042522	320-87533-1	Surface Water	N	04/25/2022	23:01	FS
CFR-TARHEEL-24-042822	320-87533-2	Surface Water	N	04/28/2022	23:01	FS
CFR-TARHEEL-24-050222	320-87533-3	Surface Water	N	05/02/2022	23:01	FS
CFR-TARHEEL-24-050522	320-87738-1	Surface Water	N	05/05/2022	23:01	FS
CFR-TARHEEL-24-050922	320-87738-2	Surface Water	N	05/09/2022	23:01	FS
CFR-TARHEEL-24-050922-D	320-87738-3	Surface Water	N	05/09/2022	23:01	DUP
CFR-TARHEEL-24-051322	320-88168-1	Surface Water	N	05/13/2022	23:01	FS
CFR-TARHEEL-24-051622	320-88168-2	Surface Water	N	05/16/2022	23:01	FS
CFR-TARHEEL-24-051922	320-88168-3	Surface Water	N	05/19/2022	23:01	FS
CFR-TARHEEL-24-052322	320-88586-1	Surface Water	N	05/23/2022	23:01	FS

CFR-TARHEEL-24-052622	320-88586-2	Surface Water	N	05/26/2022	23:01	FS
CFR-TARHEEL-24-053022	320-88586-3	Surface Water	N	05/30/2022	23:01	FS
CFR-TARHEEL-24-060222	320-88768-1	Surface Water	N	06/02/2022	23:01	FS
CFR-TARHEEL-24-060622	320-88768-2	Surface Water	N	06/06/2022	23:01	FS
CFR-TARHEEL-24-060622-D	320-88768-3	Surface Water	N	06/06/2022	23:01	DUP
CFR-TARHEEL-24-060922	320-89254-1	Surface Water	N	06/09/2022	23:01	FS
CFR-TARHEEL-24-061322	320-89254-2	Surface Water	N	06/13/2022	23:01	FS
CFR-TARHEEL-24-061622	320-89254-3	Surface Water	N	06/16/2022	23:01	FS
CFR-TARHEEL-24-062022	320-89531-1	Surface Water	N	06/20/2022	23:01	FS
CFR-TARHEEL-24-062322	320-89531-2	Surface Water	N	06/23/2022	23:01	FS
CFR-TARHEEL-24-062722	320-89798-1	Surface Water	N	06/27/2022	23:01	FS
CFR-TARHEEL-24-063022	320-89798-2	Surface Water	N	06/30/2022	23:01	FS

\* FS=Field Sample  
DUP=Field Duplicate  
FB=Field Blank  
EB=Equipment Blank  
TB=Trip Blank

### Analytical Protocol

<b>Laboratory<sup>1</sup></b>	<b>Method</b>	<b>Parameters</b>	<b>Sampling Program</b>
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	Per- and Polyfluorinated Alkyl Substances (PFAS)	Tarheel Sampling

<sup>1</sup> This laboratory name, previously Eurofins TestAmerica Sacramento, changed to Eurofins Environmental Testing Northern California, effective January 1, 2022.

<sup>2</sup> A list of 21 compounds including HFPO-DA and PFHpA.

### 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		
E	Were QA/QC criteria met by the laboratory (method blanks, LCSs/LCSDs, MSs/MSDs, PDSs, SDs, duplicates/replicates, surrogates, total/dissolved differences/RPDs, sample results within calibration range)?		X	X		
F	Were field/equipment/trip blanks (if collected) detected at levels not requiring sample data qualification?	X				
G	Were all data usable and not R qualified?	X				
<b>ER#</b>	<b>Description:</b>					
<b>Other QA/QC Items to Note:</b>						

\* See DVM Narrative Report, Lab Report, or ER # for further details as indicated.

The electronic data submitted for this project was reviewed via the Data Verification Module (DVM) process. Overall the data is 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 is 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

There are two qualifier fields in EIM:

**Lab Qualifier** is the qualifier assigned by the lab 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 lab qualifiers. As they are lab 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 lab 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 has 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: Tarheel Sampling

Validation Options:

LABSTATS

Validation Reason Code: The analysis hold time for this sample was exceeded. The reporting limit 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-24-062022	06/20/2022	320-89531-1	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-062022	06/20/2022	320-89531-1	R-PSDA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-062022	06/20/2022	320-89531-1	Hydrolyzed PSDA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-062022	06/20/2022	320-89531-1	R-PSDCA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-062022	06/20/2022	320-89531-1	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-062022	06/20/2022	320-89531-1	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-062022	06/20/2022	320-89531-1	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-062022	06/20/2022	320-89531-1	Perfluoro(2-ethoxyethane)sulfonic	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-062022	06/20/2022	320-89531-1	PMPA	0.010	UG/L	PQL		0.010	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-062022	06/20/2022	320-89531-1	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-062022	06/20/2022	320-89531-1	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-062022	06/20/2022	320-89531-1	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-062022	06/20/2022	320-89531-1	Hydro-PS Acid	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-062022	06/20/2022	320-89531-1	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-062022	06/20/2022	320-89531-1	NVHOS, Acid Form	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-062022	06/20/2022	320-89531-1	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville

Sampling Program: 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-24-041122	04/11/2022	320-86723-3	Hydrolyzed PSDA	0.0043	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-050922	05/09/2022	320-87738-2	Hydrolyzed PSDA	0.0075	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-051322	05/13/2022	320-88168-1	Hydrolyzed PSDA	0.0047	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-060622	06/06/2022	320-88768-2	Hydrolyzed PSDA	0.0072	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

**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-24-062722	06/27/2022	320-89798-1	Hydrolyzed PSDA	0.0079	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-063022	06/30/2022	320-89798-2	Hydrolyzed PSDA	0.0090	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-040722	04/07/2022	320-86723-2	Hydrolyzed PSDA	0.011	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-041122-D	04/11/2022	320-86723-4	Hydrolyzed PSDA	0.0052	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-042822	04/28/2022	320-87533-2	Hydrolyzed PSDA	0.0028	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-050222	05/02/2022	320-87533-3	Hydrolyzed PSDA	0.0046	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-050522	05/05/2022	320-87738-1	Hydrolyzed PSDA	0.0066	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-050922-D	05/09/2022	320-87738-3	Hydrolyzed PSDA	0.0069	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-051622	05/16/2022	320-88168-2	R-PSDA	0.0038	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-051622	05/16/2022	320-88168-2	Hydrolyzed PSDA	0.0049	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-051922	05/19/2022	320-88168-3	R-PSDA	0.0069	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-051922	05/19/2022	320-88168-3	Hydrolyzed PSDA	0.0050	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-052322	05/23/2022	320-88586-1	R-PSDA	0.0042	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-052322	05/23/2022	320-88586-1	Hydrolyzed PSDA	0.0060	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-052622	05/26/2022	320-88586-2	Hydrolyzed PSDA	0.0037	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-060622-D	06/06/2022	320-88768-3	Hydrolyzed PSDA	0.0083	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-060922	06/09/2022	320-89254-1	Hydrolyzed PSDA	0.0047	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-061322	06/13/2022	320-89254-2	Hydrolyzed PSDA	0.0065	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-061622	06/16/2022	320-89254-3	Hydrolyzed PSDA	0.0068	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-061622	06/16/2022	320-89254-3	R-EVE	0.0020	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville

Sampling Program: Tarheel Sampling

Validation Options:

LABSTATS

Validation Reason Code: The analysis hold time for this sample was exceeded. 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-24-062022	06/20/2022	320-89531-1	PFMOAA	0.021	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-062022	06/20/2022	320-89531-1	Hfpo Dimer Acid	0.0097	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-062022	06/20/2022	320-89531-1	Perfluoroheptanoic Acid	0.0039	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-062022	06/20/2022	320-89531-1	PFO2HxA	0.013	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-TARHEEL-24-062022	06/20/2022	320-89531-1	PFO3OA	0.0032	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

## **ADQM Data Review**

**Site: Chemours Fayetteville**

**Project: CAP MW Sampling 2Q22**

**Project Reviewer: Bridget Gavaghan**

## Sample Summary

Field Sample ID	Lab Sample ID	Sample Matrix	Filtered	Sample Date	Sample Time	Sample Purpose
CAP2Q22-PW-06-041122	320-86778-1	Groundwater	N	04/11/2022	11:25	FS
CAP2Q22-PW-06-041122-D	320-86778-2	Groundwater	N	04/11/2022	11:25	DUP
CAP2Q22-SMW-10-041122	320-86778-3	Groundwater	N	04/11/2022	15:00	FS
CAP2Q22-FBLK-041122	320-86778-4	Blank Water	N	04/11/2022	15:30	FB
CAP2Q22-EQBLK-PP-041122	320-86778-5	Blank Water	N	04/11/2022	15:35	EB
CAP2Q22-PIW-1D-041222	320-86778-6	Groundwater	N	04/12/2022	13:10	FS
CAP2Q22-SMW-11-041222	320-86778-7	Groundwater	N	04/12/2022	14:25	FS
CAP2Q22-PW-04-041522	320-87044-1	Groundwater	N	04/15/2022	07:50	FS
CAP2Q22-PW-04-041522-Z	320-87044-2	Groundwater	N	04/15/2022	07:50	FS
CAP2Q22-PIW-1S-041222	320-87044-3	Groundwater	N	04/12/2022	10:47	FS
CAP2Q22-PIW-1S-041222-Z	320-87044-4	Groundwater	N	04/12/2022	10:47	FS
CAP2Q22-LTW-01-041422	320-87044-5	Groundwater	N	04/14/2022	14:00	FS
CAP2Q22-LTW-02-041522	320-87044-6	Groundwater	N	04/15/2022	12:45	FS
CAP2Q22-LTW-04-041322	320-87044-7	Groundwater	N	04/13/2022	16:20	FS
CAP2Q22-PIW-3D-041422	320-87044-8	Groundwater	N	04/14/2022	13:50	FS
CAP2Q22-PZ-22-041322	320-87044-9	Groundwater	N	04/13/2022	16:30	FS
CAP2Q22-PIW-7S-042622	320-87314-1	Groundwater	N	04/26/2022	14:20	FS
CAP2Q22-PIW-7D-042622	320-87314-2	Groundwater	N	04/26/2022	13:55	FS
CAP2Q22-LTW-03-042622	320-87314-3	Groundwater	N	04/26/2022	12:30	FS
CAP2Q22-LTW-05-042622	320-87314-4	Groundwater	N	04/26/2022	12:22	FS
CAP2Q22-EQBLK-DV-042722	320-87314-5	Blank Water	N	04/27/2022	09:00	EB
CAP2Q22-SMW-12-042722	320-87314-6	Groundwater	N	04/27/2022	15:40	FS
CAP2Q22-EW-3-042722	320-87314-7	Groundwater	N	04/27/2022	14:00	FS
CAP2Q22-PW-09-042822	320-87314-8	Groundwater	N	04/28/2022	13:55	FS
CAP2Q22-PW-09-042822-Z	320-87314-9	Groundwater	N	04/28/2022	13:55	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 MW Sampling 2Q22
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	Per- and Polyfluorinated Alkyl Substances (PFAS)	CAP MW Sampling 2Q22

### ADQM Data Review Checklist

Item	Description	Yes	No*	Not Applicable (NA)*	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 QA/QC criteria met by the laboratory (method blanks, LCSs/LCSDs, MSs/MSDs, PDSs, SDs, duplicates/replicates, surrogates, total/dissolved differences/RPDs, sample results within calibration range)?		X		X	X	
F	Were detections in field/equipment/trip blanks at levels not requiring sample data qualification?	X					
G	Were all data usable and not R qualified?	X					
<b>ER#</b>	<b>Description</b>						
<b>Other QA/QC Items to Note:</b>							

\* 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

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 MW Sampling 2Q22

Validation Options: LABSTATS

**Validation Reason Code:** Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. 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
CAP2Q22-EQBLK-PP-041122	04/11/2022	320-86778-5	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP2Q22-FBLK-041122	04/11/2022	320-86778-4	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP2Q22-PIW-1D-041222	04/12/2022	320-86778-6	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP2Q22-PW-06-041122	04/11/2022	320-86778-1	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP2Q22-PW-06-041122-D	04/11/2022	320-86778-2	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP2Q22-SMW-10-041122	04/11/2022	320-86778-3	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP2Q22-SMW-11-041222	04/12/2022	320-86778-7	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535

Site: Fayetteville

Sampling Program: CAP MW Sampling 2Q22

Validation Options:

LABSTATS

Validation Reason Code: The preparation hold time for this sample was exceeded. The reporting limit 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
CAP2Q22-LTW-05-042622	04/26/2022	320-87314-4	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP2Q22-LTW-03-042622	04/26/2022	320-87314-3	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP2Q22-PIW-7D-042622	04/26/2022	320-87314-2	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP2Q22-PIW-7S-042622	04/26/2022	320-87314-1	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	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
CAP2Q22-PIW-7S-042622	04/26/2022	320-87314-1	R-PSDA	0.46	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-PIW-7S-042622	04/26/2022	320-87314-1	R-EVE	0.61	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-PZ-22-041322	04/13/2022	320-87044-9	R-PSDA	0.37	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-PZ-22-041322	04/13/2022	320-87044-9	Hydrolyzed PSDA	0.78	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-PZ-22-041322	04/13/2022	320-87044-9	R-EVE	0.37	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-PIW-7D-042622	04/26/2022	320-87314-2	R-PSDA	0.73	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-PIW-7D-042622	04/26/2022	320-87314-2	Hydrolyzed PSDA	1.2	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-PIW-7D-042622	04/26/2022	320-87314-2	R-EVE	0.85	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-LTW-03-042622	04/26/2022	320-87314-3	R-PSDA	0.72	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-LTW-03-042622	04/26/2022	320-87314-3	Hydrolyzed PSDA	4.6	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-LTW-03-042622	04/26/2022	320-87314-3	R-EVE	0.42	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-LTW-04-041322	04/13/2022	320-87044-7	R-PSDA	1.9	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-LTW-04-041322	04/13/2022	320-87044-7	Hydrolyzed PSDA	4.5	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-LTW-04-041322	04/13/2022	320-87044-7	R-EVE	1.9	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-LTW-05-042622	04/26/2022	320-87314-4	R-PSDA	0.35	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-LTW-05-042622	04/26/2022	320-87314-4	Hydrolyzed PSDA	0.72	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-LTW-05-042622	04/26/2022	320-87314-4	R-EVE	0.50	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-PIW-1S-041222	04/12/2022	320-87044-3	R-PSDA	0.52	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-PIW-1S-041222	04/12/2022	320-87044-3	R-EVE	0.37	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-PIW-1S-041222- Z	04/12/2022	320-87044-4	R-PSDA	0.52	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-PIW-1S-041222- Z	04/12/2022	320-87044-4	R-EVE	0.44	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-PIW-3D-041422	04/14/2022	320-87044-8	R-PSDA	0.40	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-LTW-01-041422	04/14/2022	320-87044-5	R-PSDA	0.74	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville

Sampling Program: CAP MW Sampling 2Q22

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
CAP2Q22-LTW-01-041422	04/14/2022	320-87044-5	Hydrolyzed PSDA	0.40	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-LTW-01-041422	04/14/2022	320-87044-5	R-EVE	0.44	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-LTW-02-041522	04/15/2022	320-87044-6	Hydrolyzed PSDA	0.53	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-EW-3-042722	04/27/2022	320-87314-7	R-PSDA	0.74	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-EW-3-042722	04/27/2022	320-87314-7	Hydrolyzed PSDA	3.1	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP2Q22-EW-3-042722	04/27/2022	320-87314-7	R-EVE	0.65	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep