# Appendix A
# Sampling Results

# APPENDIX A

# SAMPLING RESULTS

This appendix presents results from the Q3 2021 sampling events described in Section 2 of the main report. Specifically, this section describes the analytical results associated with the Cape Fear River PFAS Mass Load and the Cape Fear River PFAS Mass Loading Model sampling programs, including the data quality review process.

For monthly sampling events in Q3 2021, samples were analyzed for PFAS by Table 3+ Laboratory SOP. Surface water samples collected during the first month Q3 2021 (i.e., July 2021) in groundwater samples collected in each month of Q3 2021 were also analyzed for 13 additional perfluoroalkyl carboxylic acid (PFCAs) as discussed in the Paragraph 18 response memo (Geosyntec, 2021d).

The focus of this appendix is on the set of PFAS originating from manufacturing activities at the Site; therefore, analytical results are discussed with respect to the PFAS groupings presented in Table 1 of the main report: (i) Attachment C, (ii) Table 3+ (17 compounds), and (iii) Table 3+ (20 compounds).

## Data Quality

Analytical data were reviewed using the Data Verification Module (DVM) within the Locus™ 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
- 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.

**Table 3+ 17 Compounds**

For clarity, the text and figures of this report describe the Total Table 3+ (17 compounds) while Total Table 3+ (20 compounds) are included in the tables.

As reported in the *Matrix Interference During Analysis of Table 3+ Compounds* memorandum (Geosyntec, 2020a), matrix interference studies conducted by the analytical laboratory (TestAmerica, Sacramento) have shown that the quantitation of three compounds (R-PSDA, Hydrolyzed PSDA, and R-EVE) is inaccurate due to interferences by the sample matrix in both groundwater and surface water. Given the matrix interference issues, Total Table 3+ PFAS concentrations are calculated and presented two ways in this report: (i) summing over 17 of the 20 Table 3+ compounds "Total Table 3+ (17 compounds)", i.e., excluding results of R-PSDA, Hydrolyzed PSDA, and R-EVE, and (ii) summing over 20 of the Table 3+ compounds "Total Table 3+ (20 compounds)". Expressing these data as a range represents possible values of what these results might be without matrix interferences. In other words, the sum of all 17 compounds is an underestimate of the actual value while the sum of the 20 compounds is likely an overestimate of the actual value.

## Cape Fear River PFAS Mass Load Sampling Results

For this Q3 2021 report, the Cape Fear River Mass Load reporting period was from July 1 through September 30, 2021. During this period, thirty (30) primary composite samples and three (3) grab samples were collected at location CFR-TARHEEL, with the last sample being collected on September 30, 2021.

**Cape Fear River Mass Load QA/QC Samples**

Three duplicate samples (CFR-TARHEEL-24-071221-D, CFR-TARHEEL-24-081221-DUP and CFR-TARHEEL-24-091321-D) were collected during Q3 2021 on July 12, August 12, and September 9, 2021. Equipment blanks are only performed at CFR-TARHEEL when maintenance activities (e.g., line changes) are performed on the composite sampler system. Since there were no scheduled maintenance activities at CFR-TARHEEL in Q3 2021, there were no other QA/QC samples collected for this reporting period. PFAS results for the primary (CFR-TARHEEL-24-

071221, CFR-TARHEEL-24-081221 and CFR-TARHEEL-24-091321) and duplicate samples (CFR-TARHEEL-24-071221-D, CFR-TARHEEL-24-081221-DUP and CFR-TARHEEL-24-091321-D) had relative percent differences less than 30% for the reported compounds; except PFMOAA, PMPA, and R-PSDA (July primary/duplicate samples), which were J-qualified.

**Cape Fear River Mass Load PFAS Analytical Results**

Analytical sample results used to estimate Cape Fear River mass loads are reported in Table A1. In Q3 2021, Total Table 3+ concentrations ranged from 37 ng/L (CFR-TARHEEL-24-071221) to 130 ng/L (CFR-TARHEEL-24-080521). This range in concentrations is within the observed range in previous quarterly sampling events.

The concentrations over time for these samples are plotted on Figure 7 and corresponding calculated mass loads are reported in Tables 4 and 5A and plotted on Figure 8. Both figures are described in Section 3 of the main report.

**PFAS Mass Loading Model Sampling Seep and Surface Water Results**

For this Q3 2021 report, sampling of seep, surface water, and Cape Fear River locations occurred in July 2021 (July 27 – 30), August 2021 (August 18 – 20) and September 2021 (September 14 – 21). During these three monthly events, forty-seven (47) samples, three (3) duplicate samples, and six (6) equipment blanks were collected.

During the reporting period between July 1, 2021, and September 30, 2021, high river stages were not recorded (<10 feet throughout). Additionally, USGS rain gauge 02105500 indicated approximately 0.4 inches, 0.4 inches, and 1.5 inches of precipitation during the July, August, and September 2021 sample collection events, respectively.

**Seep and Surface Water QA/QC Samples**

Table 3+ PFAS concentrations for surface water QA/QC samples are reported in Table A2-1. Six (6) equipment blanks were collected and no compound was detected above the reporting limit. Three field duplicates were collected at the Willis Creek-1 location on July 27, 2021, the OLDOF-1 location on August 19, 2021 and the Outfall-002 location on September 15, 2021. PFAS results for the primary (CAP0721-WC-1-20-072821, CAP0821-OLDOF-1-24-081921, CAP0921-OUTFALL-002-24-091521) and duplicate samples (CAP0721-WC-1-20-072821-D, CAP0821-OLDOF-1-24-081921-DUP, CAP0921-OUTFALL-002-24-091521D) had relative percent differences less than 30% for the reported compounds.

**Seeps and Surface Flow Gauging**

A summary of flow rates measured for the three monthly seep and surface water events in Q3 2021 are presented in Table A3. Surface water flow gauging locations for the Q3 2021 events are shown on Figures 4A, 4B, 4C and 5 and listed in Table 2 of the main report. Details on estimated flow measurements along with measurement methods at each flow gauging location are included in Appendix B.

**Seeps and Surface Water Field Parameters**

Field parameters recorded for surface water samples collected during the Q3 2021 events are presented in Table A4 and the field forms are provided in Appendix C. Recorded field parameter data are generally consistent with expectations.

**Seep and Surface Water PFAS Analytical Results**

Analytical results for the seep, surface, and river water samples are summarized in Table A2-1 (Table 3+) and A2-2 (PFCAs). Figures A1-1 through A1-3, and A2 show the Total Table 3+ concentrations reported for samples collected in Q3 2021 and Figure A3 presents the HFPO-DA concentrations for Cape Fear River samples, respectively. Laboratory and DVM reports are included in Appendix D.

In general, Total Table 3+ concentrations were lowest at Intake at the Facility, Outfall 002, in the near-site/downstream river samples, and the effluents to the seep FTCs, while the highest concentrations were observed at the Lock and Dam Seep (Figures A1-1 through A1-3, A2, and Table A2). Among the river samples (Figure A2), Total Table 3+ concentrations ranged from 5.1 ng/L (at CFR-MILE-76 in August 2021) to 110 ng/L (downstream sample at CFR-TARHEEL in September 2021). Among the creeks, the Total Table 3+ concentration ranges were similar at Georgia Branch Creek (1,400 to 2,000 ng/L) and at Willis Creek (1,300 to 3,400 ng/L) for the samples collected in Q3 2021. Among the seeps and Old Outfall 002, Seep-A and Seep-D effluents generally had the lowest Total Table 3+ concentrations (ranging from 4.0 to 74 ng/L in Q3 2021), while Lock-Dam Seep had the highest Total Table 3+ concentrations ranging from 120,000 to 140,000 ng/L in Q3 2021.

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 September 2021) to 15 J ng/L (downstream sample at CFR-BLADEN in July 2021).

**PFAS Mass Loading Model Sampling Groundwater Results**

Three synoptic water level surveys of the onsite groundwater monitoring well network were completed in Q3 2021 (July 6-7, August 10, and September 7). Field parameters and groundwater samples were collected from 19 of the 20 CO Paragraph 16 monitoring wells in July 2021, and 18 of the 20 CO Paragraph 16 monitoring wells in August and September 2021 (Tables A5-1 and A5-2; Figure A7). This list of groundwater wells is derived from the Corrective Action Plan (CAP) (Geosyntec, 2019a) with the exception of wells INSITU-02 and BLADEN-1S, which were removed as these wells have been dry. Bladen-1D was damaged and could not be sampled in Q3 2021, and PW-11 was being pumped as part of the interim groundwater remediation activities and could not be sampled in August or September 2021.

**Groundwater QA/QC Samples**

Table 3+ PFAS concentrations for groundwater QA/QC samples are reported in Table A5-1. The following observations were noted for the QA/QC samples:

- Sixteen equipment blank samples were collected over the three sampling events. No PFAS were detected above the associated reporting limits in any of the equipment blank samples. However PMPA was detected at a concentration of 19.7 ng/L in the laboratory method blank associated with CAP0721-PW-04-072221, which resulted in a B-qualifier for that sample.
- Five field duplicate sample were collected at LTW-02 (July 2021), LTW-04 (July 2021), SMW-12 (July 2021), PIW-3D (August 2021), and SMW-11 (September 2021). PFAS results for the primary (CAP0721-LTW-02-072921, CAP0721-LTW-04-073021, CAP0721-SMW-12-070721, CAP0821-PIW-3D-083121, CAP0921-SMW-11-092221) and duplicate samples (CAP0721-LTW-02-072921-D, CAP0721-LTW-04-073021-D, CAP0721-SMW-12-070721-D, CAP0821-PIW-3D-083121-D, CAP0921-SMW-11-092221-D) had relative percent differences less than 30% for the reported compounds; except R-PSDA (LTW-02 primary/duplicate samples), R-EVE (LTW-02 primary/duplicate samples), and PEPA (SMW-12 primary/duplicate samples), which were J-qualified.

**Water Levels**

Groundwater elevations were calculated for onsite and offsite wells screened in the Perched Zone, Surficial Aquifer and Black Creek Aquifer from three synoptic water level measurement surveys performed in July, August, and September 2021 (Table A6). Groundwater elevations from these synoptic water levels were used to develop potentiometric maps for the Perched Zone, Surficial Aquifer and Black Creek Aquifer (Figures A4-1 to A6-3).

Similar to Perched Zone groundwater elevations discussed in previous assessments (Geosyntec, 2019b; Geosyntec, 2020b; Geosyntec, 2020c; Geosyntec, 2020d; Geosyntec, 2021a; Geosyntec, 2021b; Geosyntec, 2021c), groundwater elevations were highest in the central portion of the Perched Zone near the Power and Monomers IXM areas of the Site (Figure A4-1, A5-1 and A6-1). 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 A4-2, A5-2 and A6-2) 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 observed in previous assessments (Geosyntec, 2019b; Geosyntec, 2020b; Geosyntec, 2020c; Geosyntec, 2020d; Geosyntec, 2021a; Geosyntec, 2021b; Geosyntec, 2021c). 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 A4-3, A5-3 and A6-3) similar to groundwater elevations discussed in previous

assessments (Geosyntec, 2019b; Geosyntec, 2020b; Geosyntec, 2020c; Geosyntec, 2020d; Geosyntec, 2021a; Geosyntec, 2021b; Geosyntec, 2021c). 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 contours interpolated from the measured groundwater elevations 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 Appendix E.

**Groundwater Field Parameters**

Field parameters recorded for groundwater samples collected during the Q3 2021 events are presented in Table A7 and the field forms are provided in Appendix C. Recorded field parameter data are generally in line with expectations for the sample locations.

**Groundwater PFAS Analytical Results**

Individual PFAS and Total PFAS concentrations for the groundwater samples collected in Q3 2021 are summarized in Tables A5-1 (Table 3+), Table A5-2 (PFCAs), and Figure A7. Laboratory and DVM reports are included in Appendix D. Total Table 3+ concentrations ranged from non-detectable above associated reporting limits (PW-09; July, August, and September 2021 samples) to 390,000 ng/L (PW-11; July 2021 sample). 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 A7).

In general, the largest proportion of Total Table 3+ concentrations are comprised of HFPO-DA, PFMOAA, PFO2HxA and perfluoro-2-methoxypropionic acid (PMPA) (Table A5-1). On an aquifer basis, lower individual and Total Table 3+ concentrations are observed in wells screened in the Surficial Aquifer. Concentrations of Total Table 3+ in Floodplain Deposits and Black Creek Aquifer groundwater (Figure A7) were similar to the Lock-Dam Seep concentrations (Figures A1-1 to A1-3). Overall, results from the Q3 2021 monitoring are consistent with trends observed at these wells in previous monitoring events (Geosyntec, 2019b; Geosyntec, 2020b; Geosyntec, 2020c; Geosyntec, 2020d; Geosyntec, 2021).

The results from the Q3 2021 groundwater monitoring event were used to calculate the contribution of onsite groundwater in the Black Creek Aquifer to the PFAS mass discharge to the Cape Fear River. The details of the calculations can be found in Appendix E.

**References**

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

Geosyntec, 2019b. On and Offsite Assessment. Chemours Fayetteville Works. September 30, 2019.

Geosyntec, 2020a. Matrix Interference During Analysis of Table 3+ Compounds. Chemours Fayetteville Works. June 30, 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.

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

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

Geosyntec, 2021d. Responses to NCDEQ Comments on Consent Order Paragraph 18 On and Offsite Assessment Report. June 11, 2021.

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | CAP1Q20-CFR-TARHEEL-040220 | CFR-TARHEEL-48-040220 | CAP1Q20-CFR-TARHEEL-24-040320 |
| Sample Date | 3/31/2020 | 3/31/2020 | 4/2/2020 | 4/2/2020 | 4/3/2020 |
| Sample Type | Composite | Composite | Grab | Composite | Composite |
| Sample Start Date and Time | 3/28/20 1:00 AM | 3/28/20 1:00 AM | - | 3/31/20 1:00 PM | 4/2/20 3:00 PM |
| Sample Stop Date and Time | 3/31/20 12:00 PM | 3/31/20 12:00 PM | - | 4/2/20 1:00 PM | 4/3/20 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 |
| ***Table 3+ SOP (ng/L)*** | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **52** | **56** | **89** | **86** | **120** |
| **Total Table 3+ (17 compounds)[2,3]** | **52** | **56** | **91** | **86** | **120** |
| **Total Table 3+ (20 compounds)[2]** | **63** | **65** | **130** | **110** | **160** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 4/6/2020 | 4/9/2020 | 4/19/2020 | 4/22/2020 | 4/26/2020 |
| Sample Type | Composite | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | 4/2/20 1:30 PM | 4/5/20 11:32 PM | 4/15/20 2:30 PM | 4/19/20 2:30 AM | 4/22/20 1:49 PM |
| Sample Stop Date and Time | 4/6/20 12:30 AM | 4/9/20 6:30 AM | 4/19/20 1:30 AM | 4/22/20 1:30 PM | 4/26/20 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 |
| ***Table 3+ SOP (ng/L)*** | | | | | |
| 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** | -- | -- | -- | -- |
| **Total Attachment C[1,2]** | **120** | **190** | **71** | **120** | **110** |
| **Total Table 3+ (17 compounds)[2,3]** | **130** | **200** | **71** | **120** | **110** |
| **Total Table 3+ (20 compounds)[2]** | **160** | **250** | **81** | **130** | **140** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 4/29/2020 | 5/2/2020 | 5/6/2020 | 5/11/2020 | 5/13/2020 |
| Sample Type | Composite | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | 4/26/20 12:49 AM | 4/30/20 9:49 AM | 5/3/20 12:49 AM | 5/6/20 12:49 PM | 5/9/20 11:49 PM |
| Sample Stop Date and Time | 4/29/20 11:49 AM | 5/2/20 11:49 PM | 5/6/20 11:49 AM | 5/9/20 11:49 PM | 5/13/20 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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 | -- | -- | -- | -- | -- |
| **Total Attachment C[1,2]** | **120** | **83** | **51** | **79** | **140** |
| **Total Table 3+ (17 compounds)[2,3]** | **130** | **86** | **51** | **82** | **140** |
| **Total Table 3+ (20 compounds)[2]** | **170** | **130** | **74** | **110** | **190** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 5/14/2020 | 5/14/2020 | 5/16/2020 | 5/20/2020 | 5/25/2020 |
| Sample Type | Grab | Composite | Composite | Composite | Grab |
| Sample Start Date and Time | - | 5/13/20 9:50 PM | 5/13/20 9:49 AM | 5/16/20 9:49 PM | - |
| Sample Stop Date and Time | - | 5/14/20 8:50 PM | 5/16/20 7:49 PM | 5/20/20 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** | -- | -- | -- |
| **Total Attachment C[1,2]** | **190** | **180** | **190** | **260** | **4.2** |
| **Total Table 3+ (17 compounds)[2,3]** | **200** | **190** | **190** | **260** | **4.2** |
| **Total Table 3+ (20 compounds)[2]** | **270** | **250** | **260** | **340** | **9.6** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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** | **5/29/2020** | **6/1/2020** | **6/1/2020** | **6/5/2020** | **6/8/2020** |
| **Sample Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Composite** |
| **Sample Start Date and Time** | - | - | - | - | **6/5/20 11:06 AM** |
| **Sample Stop Date and Time** | - | - | - | - | **6/8/20 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** |
| ***Table 3+ SOP (ng/L)*** | | | | | |
| 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 | -- | -- | -- | -- | -- |
| **Total Attachment C[1,2]** | **11** | **9.2** | **11** | **47** | **45** |
| **Total Table 3+ (17 compounds)[2,3]** | **11** | **9.2** | **11** | **47** | **45** |
| **Total Table 3+ (20 compounds)[2]** | **11** | **15** | **13** | **53** | **58** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 6/12/2020 | 6/15/2020 | 6/19/2020 | 6/22/2020 | 6/26/2020 |
| Sample Type | Composite | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | 6/8/20 10:06 PM | 6/12/20 9:06 AM | 6/15/20 8:06 PM | 6/19/20 7:06 AM | 6/22/20 6:06 PM |
| Sample Stop Date and Time | 6/12/20 8:06 AM | 6/15/20 7:06 PM | 6/19/20 6:06 AM | 6/22/20 5:06 PM | 6/26/20 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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 | -- | -- | -- | -- | -- |
| **Total Attachment C[1,2]** | **72** | **75** | **90** | **40** | **79** |
| **Total Table 3+ (17 compounds)[2,3]** | **72** | **75** | **90** | **40** | **79** |
| **Total Table 3+ (20 compounds)[2]** | **93** | **88** | **100** | **49** | **110** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 6/29/2020 | 7/2/2020 | 7/3/2020 | 7/7/2020 | 7/10/2020 |
| Sample Type | Composite | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | 6/26/20 5:06 AM | 6/29/20 4:06 PM | 7/2/20 8:29 AM | 7/6/20 8:29 AM | 7/9/20 12:01 PM |
| Sample Stop Date and Time | 6/29/20 3:06 PM | 7/2/20 8:06 AM | 7/3/20 7:29 AM | 7/7/20 7:29 AM | 7/10/20 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 |
| ***Table 3+ SOP (ng/L)*** | | | | | |
| 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 | -- | -- | -- | -- | -- |
| **Total Attachment C[1,2]** | **120** | **84** | **150** | **190** | **150** |
| **Total Table 3+ (17 compounds)[2,3]** | **120** | **87** | **150** | **190** | **150** |
| **Total Table 3+ (20 compounds)[2]** | **160** | **100** | **210** | **250** | **200** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 7/10/2020 | 7/13/2020 | 7/16/2020 | 7/20/2020 | 7/23/2020 |
| Sample Type | Composite | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | 7/9/20 12:01 PM | 7/13/20 12:01 AM | 7/16/20 12:01 AM | 7/20/20 12:01 AM | 7/23/20 12:01 AM |
| Sample Stop Date and Time | 7/10/20 11:01 AM | 7/13/20 11:01 PM | 7/16/20 11:01 PM | 7/20/20 11:01 PM | 7/23/20 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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 | -- | -- | -- | -- | -- |
| **Total Attachment C[1,2]** | **150** | **140** | **160** | **170** | **150** |
| **Total Table 3+ (17 compounds)[2,3]** | **160** | **150** | **170** | **180** | **160** |
| **Total Table 3+ (20 compounds)[2]** | **210** | **210** | **210** | **180** | **200** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 7/27/2020 | 7/28/2020 | 7/29/2020 | 7/30/2020 | 8/3/2020 |
| Sample Type | Composite | Grab | Composite | Composite | Grab |
| Sample Start Date and Time | 7/27/20 12:01 AM | - | 7/29/20 12:01 AM | 7/30/20 12:01 AM | - |
| Sample Stop Date and Time | 7/27/20 11:01 AM | - | 7/29/20 11:01 PM | 7/30/20 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 |
| ***Table 3+ SOP (ng/L)*** | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **78** | **76** | **94** | **78** | **110** |
| **Total Table 3+ (17 compounds)[2,3]** | **81** | **79** | **97** | **81** | **120** |
| **Total Table 3+ (20 compounds)[2]** | **110** | **79** | **120** | **99** | **140** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 8/4/2020 | 8/6/2020 | 8/10/2020 | 8/12/2020 | 8/17/2020 |
| Sample Type | Grab | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | - | 8/5/20 11:55 PM | 8/9/20 10:38 PM | 8/12/20 12:01 AM | 8/17/20 12:01 AM |
| Sample Stop Date and Time | - | 8/6/20 10:55 PM | 8/10/20 9:56 PM | 8/12/20 11:01 PM | 8/17/20 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **210** | **21** | **36** | **46** | **25** |
| **Total Table 3+ (17 compounds)[2,3]** | **210** | **21** | **36** | **46** | **25** |
| **Total Table 3+ (20 compounds)[2]** | **240** | **24** | **36** | **72** | **35** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 8/20/2020 | 8/25/2020 | 8/27/2020 | 8/27/2020 | 8/31/2020 |
| Sample Type | Composite | Composite | Grab | Grab | Grab |
| Sample Start Date and Time | 8/20/20 12:01 AM | 8/25/20 12:01 AM | - | - | - |
| Sample Stop Date and Time | 8/20/20 11:01 PM | 8/25/20 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **47** | **58** | **130** | **130** | **200** |
| **Total Table 3+ (17 compounds)[2,3]** | **47** | **58** | **130** | **130** | **200** |
| **Total Table 3+ (20 compounds)[2]** | **64** | **58** | **150** | **160** | **250** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 9/3/2020 | 9/7/2020 | 9/10/2020 | 9/14/2020 | 9/17/2020 |
| Sample Type | Composite | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | 9/3/20 12:01 AM | 9/7/20 12:01 AM | 9/10/20 12:01 AM | 9/14/20 12:01 AM | 9/17/20 12:01 AM |
| Sample Stop Date and Time | 9/3/20 11:01 PM | 9/7/20 11:01 PM | 9/10/20 11:01 PM | 9/14/20 11:01 PM | 9/17/20 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **44** | **59** | **160** | **84** | **100** |
| **Total Table 3+ (17 compounds)[2,3]** | **44** | **59** | **160** | **88** | **110** |
| **Total Table 3+ (20 compounds)[2]** | **56** | **74** | **220** | **120** | **150** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 9/18/2020 | 9/21/2020 | 9/24/2020 | 9/24/2020 | 9/25/2020 |
| Sample Type | Composite | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | 9/18/20 12:01 AM | 9/21/20 12:01 AM | 9/24/20 12:01 AM | 9/24/20 12:01 AM | 9/25/20 12:01 AM |
| Sample Stop Date and Time | 9/18/20 10:01 AM | 9/21/20 11:01 PM | 9/24/20 11:01 PM | 9/24/20 11:01 PM | 9/25/20 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **160** | **58** | **69** | **69** | **70** |
| **Total Table 3+ (17 compounds)[2,3]** | **170** | **58** | **69** | **69** | **70** |
| **Total Table 3+ (20 compounds)[2]** | **280** | **67** | **80** | **80** | **84** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 9/26/2020 | 9/28/2020 | 9/29/2020 | 9/30/2020 | 10/1/2020 |
| Sample Type | Composite | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | 9/26/20 12:01 AM | 9/28/20 12:01 AM | 9/29/20 12:01 AM | 9/30/20 12:01 AM | 10/1/2020 0:01 |
| Sample Stop Date and Time | 9/26/20 11:01 PM | 9/28/20 11:01 PM | 9/29/20 11:01 PM | 9/30/20 11:01 PM | 10/1/2020 17:01 |
| 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **70** | **51** | **16** | **74** | **15** |
| **Total Table 3+ (17 compounds)[2,3]** | **70** | **51** | **16** | **74** | **15** |
| **Total Table 3+ (20 compounds)[2]** | **83** | **58** | **22** | **96** | **15** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 10/6/2020 | 10/8/2020 | 10/12/2020 | 10/15/2020 | 10/19/2020 |
| Sample Type | Composite | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | 10/6/20 14:30 | 10/7/2020 17:30 | 10/12/2020 0:01 | 10/15/2020 0:01 | 10/19/2020 0:01 |
| Sample Stop Date and Time | 10/6/20 23:30 | 10/8/2020 16:30 | 10/12/2020 23:01 | 10/15/2020 23:01 | 10/19/2020 23:01 |
| 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **24** | **39** | **170** | **26** | **32** |
| **Total Table 3+ (17 compounds)[2,3]** | **24** | **39** | **170** | **26** | **32** |
| **Total Table 3+ (20 compounds)[2]** | **29** | **47** | **220** | **35** | **42** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 10/22/2020 | 10/30/2020 | 10/31/2020 | 11/2/2020 | 11/5/2020 |
| Sample Type | Composite | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | 10/22/2020 0:01 | 10/30/2020 12:01 | 10/31/2020 0:01 | 11/2/2020 0:01 | 11/5/20 0:01 |
| Sample Stop Date and Time | 10/22/2020 23:01 | 10/30/20 23:01 | 10/31/20 23:01 | 11/2/2020 23:01 | 11/5/20 23:01 |
| 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 |
| ***Table 3+ SOP (ng/L)*** | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **51** | **56** | **70** | **51** | **65** |
| **Total Table 3+ (17 compounds)[2,3]** | **51** | **60** | **74** | **54** | **65** |
| **Total Table 3+ (20 compounds)[2]** | **51** | **82** | **92** | **58** | **71** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 11/9/2020 | 11/11/2020 | 11/12/2020 | 11/13/2020 | 11/18/2020 |
| Sample Type | Composite | Composite | Composite | Grab | Grab |
| Sample Start Date and Time | 11/9/2020 0:01 | 11/11/2020 0:01 | 11/12/2020 0:01 | -- | -- |
| Sample Stop Date and Time | 11/9/2020 23:01 | 11/11/2020 23:01 | 11/12/2020 19:01 | -- | -- |
| 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 |
| ***Table 3+ SOP (ng/L)*** | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **90** | **74** | **240** | **6.1** | **22** |
| **Total Table 3+ (17 compounds)[2,3]** | **93** | **77** | **240** | **6.1** | **22** |
| **Total Table 3+ (20 compounds)[2]** | **130** | **110** | **310** | **6.1** | **31** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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[4] | CFR-TARHEEL | CFR-TARHEEL[4] |
| Field Sample ID | CFR-TARHEEL-112020 | CFR-TARHEEL-24-112420 | CFR-TARHEEL-24-112420 | CFR-TARHEEL-24-112620 | CFR-TARHEEL-24-112620 |
| Sample Date | 11/20/2020 | 11/24/2020 | 11/24/2020 | 11/26/2020 | 11/26/2020 |
| Sample Type | Grab | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | -- | 11/24/2020 0:01 | 11/24/2020 0:01 | 11/26/2020 0:01 | 11/26/2020 0:01 |
| Sample Stop Date and Time | -- | 11/24/2020 23:01 | 11/24/2020 23:01 | 11/26/2020 23:01 | 11/26/2020 23:01 |
| 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **24** | **2.3** | **31** | **380** | **36** |
| **Total Table 3+ (17 compounds)[2,3]** | **24** | **2.3** | **31** | **380** | **36** |
| **Total Table 3+ (20 compounds)[2]** | **36** | **2.3** | **38** | **390** | **45** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 11/30/2020 | 12/3/2020 | 12/7/2020 | 12/10/2020 | 12/13/2020 |
| Sample Type | Composite | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | 11/30/2020 0:01 | 12/3/2020 0:01 | 12/7/2020 0:01 | 12/10/2020 0:01 | 12/13/20 0:01 |
| Sample Stop Date and Time | 11/30/2020 23:01 | 12/3/2020 23:01 | 12/7/2020 23:01 | 12/10/2020 23:01 | 12/13/20 23:01 |
| 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 |
| ***Table 3+ SOP (ng/L)*** | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **94** | **46** | **25** | **29** | **43** |
| **Total Table 3+ (17 compounds)[2,3]** | **94** | **46** | **25** | **29** | **43** |
| **Total Table 3+ (20 compounds)[2]** | **120** | **53** | **40** | **29** | **60** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | CAP1220-CFR-TARHEEL-121520 | CAP1220-TARHEEL-121620 | CFR-TARHEEL-121720 | CFR-TARHEEL-122120 |
| Sample Date | 12/14/2020 | 12/15/2020 | 12/16/2020 | 12/17/2020 | 12/21/2020 |
| Sample Type | Composite | Grab | Grab | Grab | Grab |
| Sample Start Date and Time | 12/14/2020 0:59 | -- | -- | -- | -- |
| Sample Stop Date and Time | 12/14/2020 11:59 | -- | -- | -- | -- |
| 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **48** | **55** | **70** | **13** | **18** |
| **Total Table 3+ (17 compounds)[2,3]** | **48** | **55** | **74** | **13** | **18** |
| **Total Table 3+ (20 compounds)[2]** | **66** | **77** | **84** | **20** | **24** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 12/23/2020 | 12/24/2020 | 12/28/2020 | 12/30/2020 | 1/6/2021 |
| 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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 |
| **Total Attachment C[1,2]** | **7.1** | **38** | **5.5** | **21** | **9.3** |
| **Total Table 3+ (17 compounds)[2,3]** | **7.1** | **38** | **5.5** | **21** | **9.3** |
| **Total Table 3+ (20 compounds)[2]** | **10** | **62** | **7.5** | **34** | **9.3** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 1/7/2021 | 1/11/2021 | 1/14/2021 | 1/21/2021 | 1/22/2021 |
| Sample Type | Grab | Grab | Grab | Composite | Composite |
| Sample Start Date and Time | - | - | - | 1/21/21 12:01 AM | 1/22/21 12:01 AM |
| Sample Stop Date and Time | - | - | - | 1/21/21 11:01 PM | 1/22/21 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **7.0** | **24** | **42** | **53** | **55** |
| **Total Table 3+ (17 compounds)[2,3]** | **7.0** | **24** | **42** | **53** | **55** |
| **Total Table 3+ (20 compounds)[2]** | **7.0** | **31** | **51** | **66** | **70** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 1/26/2021 | 1/27/2021 | 1/27/2021 | 1/28/2021 | 2/1/2021 |
| Sample Type | Grab | Composite | Composite | Composite | Grab |
| Sample Start Date and Time | - | 1/26/21 4:10 PM | 1/26/21 4:10 PM | 1/28/21 12:01 AM | - |
| Sample Stop Date and Time | - | 1/27/21 3:10 PM | 1/27/21 3:10 PM | 1/28/21 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **91** | **67** | **58** | **44** | **32** |
| **Total Table 3+ (17 compounds)[2,3]** | **94** | **67** | **58** | **44** | **32** |
| **Total Table 3+ (20 compounds)[2]** | **130** | **88** | **74** | **55** | **35** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 2/4/2021 | 2/8/2021 | 2/12/2021 | 2/16/2021 | 2/19/2021 |
| Sample Type | Grab | Grab | Composite | Grab | Grab |
| Sample Start Date and Time | - | - | 2/11/21 12:01 AM | - | - |
| Sample Stop Date and Time | - | - | 2/12/21 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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 |
| **Total Attachment C[1,2]** | **19** | **0.0** | **62** | **22** | **38** |
| **Total Table 3+ (17 compounds)[2,3]** | **19** | **0.0** | **62** | **22** | **38** |
| **Total Table 3+ (20 compounds)[2]** | **24** | **0.0** | **73** | **22** | **46** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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[5] | CFR-TARHEEL | CFR-TARHEEL[5] | CFR-TARHEEL |
| Field Sample ID | CFR-TARHEEL-022221 | CFR-TARHEEL-022221 | CAP0221-CFR-TARHEEL-022421 | CAP0221-CFR-TARHEEL-022421 | CFR-TARHEEL-022521 |
| Sample Date | 2/22/2021 | 2/22/2021 | 2/24/2021 | 2/24/2021 | 2/25/2021 |
| 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **33** | **36** | **45** | **26** | **30** |
| **Total Table 3+ (17 compounds)[2,3]** | **33** | **36** | **49** | **26** | **30** |
| **Total Table 3+ (20 compounds)[2]** | **40** | **48** | **55** | **34** | **36** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Sampling Event | Q1 2021 | Q1 2021 | Q1 2021 | Q1 2021 | Q1 2021 |
|---|---|---|---|---|---|
| Location ID | CFR-TARHEEL[5] | 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 | 2/25/2021 | 3/5/2021 | 3/6/2021 | 3/8/2021 | 3/11/2021 |
| Sample Type | Grab | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | - | 3/5/21 12:01 AM | 3/6/21 12:01 AM | 3/8/21 12:01 AM | 3/11/21 12:01 AM |
| Sample Stop Date and Time | - | 3/5/21 11:01 PM | 3/6/21 11:01 PM | 3/8/21 11:01 PM | 3/11/21 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **30** | **22** | **44** | **22** | **49** |
| **Total Table 3+ (17 compounds)[2,3]** | **30** | **22** | **44** | **22** | **49** |
| **Total Table 3+ (20 compounds)[2]** | **36** | **34** | **54** | **28** | **58** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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[5] | CFR-TARHEEL[6] |
| 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 | 3/15/2021 | 3/18/2021 | 3/24/2021 | 3/24/2021 | 3/24/2021 |
| Sample Type | Composite | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | 3/15/21 12:01 AM | 3/18/21 12:01 AM | 3/24/21 12:01 AM | 3/24/21 12:01 AM | 3/24/21 12:01 AM |
| Sample Stop Date and Time | 3/16/21 12:01 AM | 3/18/21 11:01 PM | 3/24/21 11:01 PM | 3/24/21 11:01 PM | 3/24/21 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **45** | **34** | **780** | **65** | **59** |
| **Total Table 3+ (17 compounds)[2,3]** | **45** | **34** | **830** | **75** | **73** |
| **Total Table 3+ (20 compounds)[2]** | **53** | **41** | **890** | **120** | **110** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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[6] | 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 | 3/25/2021 | 3/25/2021 | 3/25/2021 | 3/29/2021 | 3/29/2021 |
| Sample Type | Composite | Composite | Composite | Grab | Composite |
| Sample Start Date and Time | 3/25/21 12:01 AM | 3/25/21 12:01 AM | 3/25/21 12:01 AM | - | 3/29/21 12:01 AM |
| Sample Stop Date and Time | 3/25/21 11:01 PM | 3/25/21 11:01 PM | 3/25/21 11:01 PM | - | 3/29/21 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 |
| ***Table 3+ SOP (ng/L)*** | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **69** | **69** | **58** | **56** | **16** |
| **Total Table 3+ (17 compounds)[2,3]** | **72** | **72** | **61** | **64** | **16** |
| **Total Table 3+ (20 compounds)[2]** | **79** | **79** | **90** | **96** | **20** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Sampling Event | Q1 2021 | Q1 2021 | Q1 2021 | Q2 2021 | Q2 2021 |
|---|---|---|---|---|---|
| Location ID | CFR-TARHEEL[7] | 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 | 3/30/2021 | 3/31/2021 | 3/31/2021 | 4/5/2021 | 4/7/2021 |
| Sample Type | Composite | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | 3/29/21 12:50 PM | 3/31/21 12:01 AM | 3/31/21 12:01 AM | 4/5/21 12:01 AM | 4/7/21 12:01 AM |
| Sample Stop Date and Time | 3/30/21 8:50 AM | 3/31/21 11:01 PM | 3/31/21 11:01 PM | 4/5/21 11:01 PM | 4/7/21 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **11** | **15** | **15** | **190** | **86** |
| **Total Table 3+ (17 compounds)[2,3]** | **11** | **15** | **15** | **190** | **86** |
| **Total Table 3+ (20 compounds)[2]** | **20** | **18** | **18** | **260** | **110** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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** | **4/12/2021** | **4/15/2021** | **4/18/2021** | **4/19/2021** | **4/20/2021** |
| **Sample Type** | **Composite** | **Composite** | **Composite** | **Composite** | **Grab** |
| **Sample Start Date and Time** | **4/12/21 12:01 AM** | **4/15/21 12:01 AM** | **4/18/21 12:01 AM** | **4/19/21 12:01 AM** | **-** |
| **Sample Stop Date and Time** | **4/12/21 11:01 PM** | **4/15/21 11:01 PM** | **4/18/21 11:01 PM** | **4/19/21 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** |
| ***Table 3+ SOP (ng/L)*** | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **72** | **67** | **110** | **220** | **110** |
| **Total Table 3+ (17 compounds)[2,3]** | **72** | **67** | **110** | **220** | **110** |
| **Total Table 3+ (20 compounds)[2]** | **100** | **81** | **140** | **270** | **140** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 4/21/2021 | 4/22/2021 | 4/27/2021 | 4/28/2021 | 4/28/2021 |
| Sample Type | Composite | Composite | Grab | Composite | Composite |
| Sample Start Date and Time | 4/21/21 10:48 AM | 4/21/21 2:20 PM | - | 4/28/21 12:01 AM | 4/28/21 12:01 AM |
| Sample Stop Date and Time | 4/21/21 2:48 PM | 4/22/21 1:20 PM | - | 4/28/21 11:01 PM | 4/28/21 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 |
| ***Table 3+ SOP (ng/L)*** | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **160** | **140** | **150** | **120** | **120** |
| **Total Table 3+ (17 compounds)[2,3]** | **160** | **140** | **150** | **130** | **120** |
| **Total Table 3+ (20 compounds)[2]** | **210** | **530** | **200** | **160** | **150** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 5/3/2021 | 5/6/2021 | 5/10/2021 | 5/10/2021 | 5/12/2021 |
| Sample Type | Composite | Grab | Composite | Composite | Composite |
| Sample Start Date and Time | 5/3/21 12:01 AM | - | 5/10/21 12:01 AM | 5/10/21 12:01 AM | 5/12/21 12:01 AM |
| Sample Stop Date and Time | 5/3/21 11:01 PM | - | 5/10/21 11:01 PM | 5/10/21 11:01 PM | 5/12/21 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **100** | **130** | **81** | **82** | **89** |
| **Total Table 3+ (17 compounds)[2,3]** | **110** | **130** | **89** | **90** | **94** |
| **Total Table 3+ (20 compounds)[2]** | **150** | **170** | **120** | **130** | **130** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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[8] |
| 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 | 5/17/2021 | 5/20/2021 | 5/24/2021 | 5/26/2021 | 5/26/2021 |
| Sample Type | Composite | Composite | Composite | Grab | Grab |
| Sample Start Date and Time | 5/17/21 12:01 AM | 5/20/21 12:01 AM | 5/24/21 12:01 AM | - | - |
| Sample Stop Date and Time | 5/17/21 11:01 PM | 5/20/21 11:01 PM | 5/24/21 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **110** | **120** | **150** | **130** | **91** |
| **Total Table 3+ (17 compounds)[2,3]** | **110** | **130** | **160** | **130** | **95** |
| **Total Table 3+ (20 compounds)[2]** | **140** | **170** | **190** | **210** | **95** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 5/27/2021 | 5/27/2021 | 6/2/2021 | 6/3/2021 | 6/7/2021 |
| Sample Type | Composite | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | 5/26/21 2:18 PM | 5/27/21 12:01 AM | 6/2/21 12:01 AM | 6/3/21 12:01 AM | 6/7/21 12:01 AM |
| Sample Stop Date and Time | 5/27/21 1:18 PM | 5/27/21 11:01 PM | 6/2/21 11:01 PM | 6/3/21 11:01 PM | 6/7/21 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 |
| ***Table 3+ SOP (ng/L)*** | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **140** | **160** | **130** | **290** | **81** |
| **Total Table 3+ (17 compounds)[2,3]** | **150** | **160** | **130** | **290** | **87** |
| **Total Table 3+ (20 compounds)[2]** | **190** | **200** | **170** | **380** | **120** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 6/7/2021 | 6/12/2021 | 6/15/2021 | 6/15/2021 | 6/16/2021 |
| Sample Type | Composite | Composite | Grab | Composite | Composite |
| Sample Start Date and Time | 6/7/21 12:01 AM | 6/12/21 12:01 AM | - | 6/15/21 12:01 AM | 6/15/21 3:35 PM |
| Sample Stop Date and Time | 6/7/21 11:01 PM | 6/12/21 11:01 PM | - | 6/15/21 11:01 PM | 6/16/21 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 |
| ***Table 3+ SOP (ng/L)*** | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **74** | **180** | **50** | **59** | **55** |
| **Total Table 3+ (17 compounds)[2,3]** | **80** | **180** | **50** | **59** | **55** |
| **Total Table 3+ (20 compounds)[2]** | **92** | **230** | **50** | **65** | **60** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 6/17/2021 | 6/22/2021 | 6/24/2021 | 7/1/2021 | 7/2/2021 |
| Sample Type | Composite | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | 6/17/21 12:01 AM | 6/22/21 12:01 AM | 6/24/21 12:01 AM | 6/30/21 12:01 AM | 7/2/21 12:01 AM |
| Sample Stop Date and Time | 6/17/21 11:01 PM | 6/22/21 11:01 PM | 6/24/21 11:01 PM | 7/1/21 11:01 PM | 7/2/21 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 |
| ***Table 3+ SOP (ng/L)*** | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **57** | **77** | **79** | **82** | **83** |
| **Total Table 3+ (17 compounds)[2,3]** | **57** | **77** | **87** | **87** | **88** |
| **Total Table 3+ (20 compounds)[2]** | **62** | **77** | **120** | **93** | **96** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 7/7/2021 | 7/8/2021 | 7/12/2021 | 7/12/2021 | 7/15/2021 |
| Sample Type | Composite | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | 7/7/21 12:01 AM | 7/8/21 12:01 AM | 7/12/21 12:01 AM | 7/12/21 12:01 AM | 7/15/21 12:01 AM |
| Sample Stop Date and Time | 7/7/21 11:01 PM | 7/8/21 11:01 PM | 7/12/21 11:01 PM | 7/12/21 11:01 PM | 7/15/21 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 |
| ***Table 3+ SOP (ng/L)*** | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **72** | **110** | **37** | **45** | **57** |
| **Total Table 3+ (17 compounds)[2,3]** | **80** | **110** | **37** | **45** | **57** |
| **Total Table 3+ (20 compounds)[2]** | **120** | **120** | **44** | **57** | **62** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 7/19/2021 | 7/22/2021 | 7/26/2021 | 7/28/2021 | 7/28/2021 |
| Sample Type | Composite | Composite | Composite | Grab | Composite |
| Sample Start Date and Time | 7/19/21 12:01 AM | 7/22/21 12:01 AM | 7/26/21 12:01 AM | - | 7/28/21 5:45 PM |
| Sample Stop Date and Time | 7/19/21 11:01 PM | 7/22/21 11:01 PM | 7/26/21 11:01 PM | - | 7/29/21 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 |
| ***Table 3+ SOP (ng/L)*** | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **61** | **51** | **65** | **46** | **60** |
| **Total Table 3+ (17 compounds)[2,3]** | **65** | **51** | **65** | **50** | **65** |
| **Total Table 3+ (20 compounds)[2]** | **91** | **72** | **67** | **54** | **79** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 7/29/2021 | 8/2/2021 | 8/5/2021 | 8/12/2021 | 8/12/2021 |
| Sample Type | Composite | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | 7/29/21 12:01 AM | 8/2/21 12:01 AM | 8/5/21 12:01 AM | 8/12/21 12:01 AM | 8/12/21 12:01 AM |
| Sample Stop Date and Time | 7/29/21 11:01 PM | 8/2/21 11:01 PM | 8/5/21 11:01 PM | 8/12/21 11:01 PM | 8/12/21 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **52** | **100** | **120** | **93** | **90** |
| **Total Table 3+ (17 compounds)[2,3]** | **56** | **110** | **130** | **100** | **99** |
| **Total Table 3+ (20 compounds)[2]** | **69** | **150** | **190** | **120** | **110** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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[9]** |
| **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** | **8/13/2021** | **8/16/2021** | **8/19/2021** | **8/19/2021** | **8/19/2021** |
| **Sample Type** | **Composite** | **Composite** | **Composite** | **Grab** | **Grab** |
| **Sample Start Date and Time** | **8/13/21 12:01 AM** | **8/16/21 12:01 AM** | **8/19/21 12:01 AM** | **-** | **-** |
| **Sample Stop Date and Time** | **8/13/21 11:01 PM** | **8/16/21 11:01 PM** | **8/19/21 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** |
| ***Table 3+ SOP (ng/L)*** | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **80** | **75** | **74** | **78** | **82** |
| **Total Table 3+ (17 compounds)[2,3]** | **90** | **78** | **82** | **85** | **89** |
| **Total Table 3+ (20 compounds)[2]** | **100** | **100** | **120** | **130** | **110** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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[9] | 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 | 8/20/2021 | 8/20/2021 | 8/23/2021 | 8/26/2021 | 8/29/2021 |
| Sample Type | Composite | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | 8/19/21 8:30 AM | 8/19/21 8:30 AM | 8/23/21 12:01 AM | 8/26/21 12:01 AM | 8/29/21 12:01 AM |
| Sample Stop Date and Time | 8/20/21 7:30 AM | 8/20/21 7:30 AM | 8/23/21 11:01 PM | 8/26/21 11:01 PM | 8/29/21 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **4.8** | **67** | **37** | **47** | **43** |
| **Total Table 3+ (17 compounds)[2,3]** | **12** | **67** | **40** | **50** | **46** |
| **Total Table 3+ (20 compounds)[2]** | **36** | **67** | **44** | **56** | **57** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 9/2/2021 | 9/6/2021 | 9/9/2021 | 9/13/2021 | 9/13/2021 |
| Sample Type | Composite | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | 9/2/21 12:01 AM | 9/6/21 12:01 AM | 9/9/21 12:01 AM | 9/13/21 12:01 AM | 9/13/21 12:01 AM |
| Sample Stop Date and Time | 9/2/21 11:01 PM | 9/6/21 11:01 PM | 9/9/21 11:01 PM | 9/13/21 11:01 PM | 9/13/21 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **53** | **72** | **69** | **66** | **65** |
| **Total Table 3+ (17 compounds)[2,3]** | **57** | **78** | **76** | **77** | **76** |
| **Total Table 3+ (20 compounds)[2]** | **68** | **84** | **81** | **97** | **97** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD 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 | 9/15/2021 | 9/15/2021 | 9/16/2021 | 9/20/2021 | 9/21/2021 |
| Sample Type | Grab | Composite | Composite | Composite | Composite |
| Sample Start Date and Time | - | 9/14/21 9:36 PM | 9/16/21 12:01 AM | 9/20/21 12:01 AM | 9/21/21 12:01 AM |
| Sample Stop Date and Time | - | 9/15/21 8:36 PM | 9/16/21 11:01 PM | 9/20/21 11:01 PM | 9/21/21 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 |
| *Table 3+ SOP (ng/L)* | | | | | |
| 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** |
| **Total Attachment C[1,2]** | **100** | **93** | **96** | **82** | **83** |
| **Total Table 3+ (17 compounds)[2,3]** | **110** | **100** | **110** | **87** | **87** |
| **Total Table 3+ (20 compounds)[2]** | **140** | **130** | **140** | **100** | **97** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Sampling Event | Q3 2021 | Q3 2021 | Q1 2020 | Q2 2020 | Q2 2020 |
|---|---|---|---|---|---|
| **Location ID** | **CFR-TARHEEL** | **CFR-TARHEEL** | **EB** | **EB** | **EB** |
| **Field Sample ID** | **CFR-TARHEEL-24-092721** | **CFR-TARHEEL-24-093021** | **CFR-EQBLK-1-040820** | **CFR-TARHEEL-EB-052520** | **CFR-TARHEEL-EB-060120** |
| **Sample Date** | **9/27/2021** | **9/30/2021** | **4/8/2020** | **5/25/2020** | **6/1/2020** |
| **Sample Type** | **Composite** | **Composite** | **Grab** | **Grab** | **Grab** |
| **Sample Start Date and Time** | **9/27/21 12:01 AM** | **9/30/21 12:01 AM** | **-** | **-** | **-** |
| **Sample Stop Date and Time** | **9/27/21 11:01 PM** | **9/30/21 11:01 PM** | **-** | **-** | **-** |
| **Composite Duration (hours)** | **24** | **24** | **-** | **-** | **-** |
| **QA/QC** | | | **Equipment Blank** | **Equipment Blank** | **Equipment Blank** |
| **Sample Delivery Group (SDG)** | **320-80088-1** | **320-80088-1** | **320-60098-1** | **320-61296-1** | **320-61452-1** |
| **Lab Sample ID** | **320-80088-1** | **320-80088-2** | **320-60098-5** | **320-61296-4** | **320-61452-4** |
| ***Table 3+ SOP (ng/L)*** | | | | | |
| HFPO-DA | **6.7** | **13** | <4 | <2 | <2 |
| PFMOAA | **21** | **39** | <5 | <5 | <2 |
| PFO2HxA | **7.1** | **15** | <2 | <2 | <2 |
| PFO3OA | <2.0 | **3.3** | <2 | <2 | <2 |
| PFO4DA | <2.0 | <2.0 | <2 | <2 | **4.1** |
| PFO5DA | <2.0 | <2.0 | <2 | <2 | <2 |
| PMPA | **13** | **18** | <10 | <10 | <13 |
| PEPA | <20 | <20 | <20 | <20 | <2 |
| PS Acid | <2.0 | <2.0 | <2 | <2 | <2 |
| Hydro-PS Acid | <2.0 | <2.0 | <2 | <2 | <2 |
| R-PSDA | **7.3 J** | **6.4 J** | <2 | <2 | <2 |
| Hydrolyzed PSDA | **6.4 J** | **12 J** | <2 | <2 | <2 |
| R-PSDCA | <2.0 | <2.0 | <2 | <2 | <2 |
| NVHOS | <2.0 | **2.5** | <2 | <2 | <2 |
| EVE Acid | <2.0 | <2.0 | <2 | <2 | <2 |
| Hydro-EVE Acid | <2.0 | <2.0 | <2 | <2 | <2 |
| R-EVE | <2.0 | **2.1 J** | <2 | <2 | <2 |
| PES | <2.0 | <2.0 | <2 | <2 | <2 |
| PFECA B | <2.0 | <2.0 | <2 | <2 | <2 |
| PFECA-G | <2.0 | <2.0 | <2 | <2 | <2 |
| Perfluoroheptanoic Acid | <2.0 | **2.3** | <2 | -- | -- |
| **Total Attachment C[1,2]** | **48** | **88** | ND | ND | **4.1** |
| **Total Table 3+ (17 compounds)[2,3]** | **48** | **91** | ND | ND | **4** |
| **Total Table 3+ (20 compounds)[2]** | **62** | **110** | ND | ND | **4.1** |

**TABLE A1**
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Sampling Event | Q2 2020 | Q2 2020 | Q3 2020 |
|---|---|---|---|
| **Location ID** | **FBLK** | **FBLK** | **EB** |
| **Field Sample ID** | **CFR-TARHEEL-FB-052520** | **CFR-TARHEEL-FB-060120** | **CAP3Q20-EQBLK-ISCO-072920** |
| **Sample Date** | **5/25/2020** | **6/1/2020** | **7/29/2020** |
| **Sample Type** | **Grab** | **Grab** | **Grab** |
| **Sample Start Date and Time** | - | - | - |
| **Sample Stop Date and Time** | - | - | - |
| **Composite Duration (hours)** | - | - | - |
| **QA/QC** | **Field Blank** | **Field Blank** | **Equipment Blank** |
| **Sample Delivery Group (SDG)** | **320-61296-1** | **320-61452-1** | **320-63228-1** |
| **Lab Sample ID** | **320-61296-3** | **320-61452-3** | **320-63228-4** |
| ***Table 3+ SOP (ng/L)*** | | | |
| HFPO-DA | <2 | <2 | <2 |
| PFMOAA | <5 | <2 | <2 |
| PFO2HxA | <2 | <2 | <2 |
| PFO3OA | <2 | <2 | <2 |
| PFO4DA | <2 | <2 | <2 |
| PFO5DA | <2 | <2 | <2 |
| PMPA | <10 | <13 | <20 |
| PEPA | <20 | <2 | <10 |
| PS Acid | <2 | <2 | <2 |
| Hydro-PS Acid | <2 | <2 | <2 |
| R-PSDA | <2 | <2 | <2 UJ |
| Hydrolyzed PSDA | <2 | <2 | <2 UJ |
| R-PSDCA | <2 | <2 | <2 |
| NVHOS | <2 | <2 | <2 |
| EVE Acid | <2 | <2 | <2 |
| Hydro-EVE Acid | <2 | <2 | <2 |
| R-EVE | <2 | <2 | <2 UJ |
| PES | <2 | <2 | <2 |
| PFECA B | <2 | <2 | <2 |
| PFECA-G | <2 | <2 | <2 |
| Perfluoroheptanoic Acid | -- | <2 UJ | <2 |
| **Total Attachment C[1,2]** | ND | ND | ND |
| **Total Table 3+ (17 compounds)[2,3]** | ND | ND | ND |
| **Total Table 3+ (20 compounds)[2]** | ND | ND | ND |

***Notes:***
**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.
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 Perfluoroheptanoic acid (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 A2-1
## SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

| Location ID | CFR-BLADEN | CFR-KINGS | CFR-MILE-76 | CFR-MILE-76[4] |
|---|---|---|---|---|
| Field Sample ID | CAP0721-CFR-BLADEN-072721 | CAP0721-CFR-KINGS-073021 | CAP0721-CFR-RM-76-072721 | CAP0721-CFR-RM-76-072721 |
| Sample Date | 7/27/2021 | 7/30/2021 | 7/27/2021 | 7/27/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-76991-1 | 320-77167-1 | 320-76991-1 | 320-76991-2 |
| Lab Sample ID | 320-76991-2 | 320-77167-3 | 320-76991-1 | 320-76991-1 |
| **Table 3+ SOP (ng/L)** | | | | |
| HFPO-DA | **15** | **12** | **3.7** | **3.4 J** |
| PFMOAA | **11** | **16** | <2.0 | **2.6 J** |
| PFO2HxA | **15** | **15** | **3.7** | **3.5 J** |
| PFO3OA | **3.7** | **3.6** | <2.0 | <2.0 UJ |
| PFO4DA | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| PFO5DA | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| PMPA | **44** | **32** | **31** | **10 J** |
| PEPA | <20 | <20 | <20 | <20 UJ |
| PS Acid | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| Hydro-PS Acid | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| R-PSDA | **6.9 J** | **8.3 J** | <2.0 | **3.6 J** |
| Hydrolyzed PSDA | **7.1 J** | **6.5 J** | <2.0 | <2.0 UJ |
| R-PSDCA | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| NVHOS | **2.7** | **3.8** | **2.6** | **2.5 J** |
| EVE Acid | **2.0** | <2.0 | <2.0 | <2.0 UJ |
| Hydro-EVE Acid | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| R-EVE | **4.4 J** | **4.5 J** | <2.0 | <2.0 UJ |
| PES | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| PFECA B | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| PFECA-G | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| Perfluoroheptanoic Acid | **5.4** | **4.7** | **4.7** | **4.1 J** |
| **Total Attachment C[1,2]** | **89** | **79** | **38** | **20** |
| **Total Table 3+ (17 compounds)[2,3]** | **93** | **82** | **41** | **22** |
| **Total Table 3+ (20 compounds)[2]** | **110** | **100** | **41** | **26** |

# TABLE A2-1
## SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

| Location ID | CFR-TARHEEL | CFR-TARHEEL | GBC-1 | Lock-Dam Seep |
|---|---|---|---|---|
| Field Sample ID | CAP0721-CFR-TARHEEL-072821 | CAP0721-CFR-TARHEEL-24-072821 | CAP0721-GBC-1-072721 | CAP0721-LOCK-DAM-SEEP-072721 |
| Sample Date | 7/28/2021 | 7/28/2021 | 7/27/2021 | 7/27/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | Liquid | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-76991-1 | 320-77167-1 | 320-76991-1 | 320-76991-1 |
| Lab Sample ID | 320-76991-5 | 320-77167-1 | 320-76991-3 | 320-76991-4 |
| **Table 3+ SOP (ng/L)** | | | | |
| HFPO-DA | **5.5** | **9.3** | **340** | **8,300** |
| PFMOAA | **5.0** | **8.8** | **31** | **71,000** |
| PFO2HxA | **6.5** | **8.9** | **250** | **20,000** |
| PFO3OA | <2.0 | **2.5** | **43** | **10,000** |
| PFO4DA | <2.0 | <2.0 | **12** | **1,900** |
| PFO5DA | <2.0 | <2.0 | <2.0 | **120** |
| PMPA | **29** | **30** | **520** | **6,500** |
| PEPA | <20 | <20 | **140** | **2,200** |
| PS Acid | <2.0 | <2.0 | <2.0 | <9.8 |
| Hydro-PS Acid | <2.0 | <2.0 | **18** | **120** |
| R-PSDA | <2.0 | **9.0 J** | **33 J** | **570 J** |
| Hydrolyzed PSDA | **3.3 J** | **4.8 J** | <2.0 | **610 J** |
| R-PSDCA | <2.0 | <2.0 | <2.0 | **10** |
| NVHOS | **4.2** | **5.5** | **2.6** | **910** |
| EVE Acid | <2.0 | <2.0 | <2.0 | <8.7 |
| Hydro-EVE Acid | <2.0 | <2.0 | <2.0 | **110** |
| R-EVE | <2.0 | <2.0 | **16 J** | **240 J** |
| PES | <2.0 | <2.0 | <2.0 | <3.4 |
| PFECA B | <2.0 | <2.0 | <2.0 | <13 |
| PFECA-G | <2.0 | <2.0 | <2.0 | <24 |
| Perfluoroheptanoic Acid | **4.8** | **4.3** | **2.6** | **61** |
| **Total Attachment C[1,2]** | **46** | **60** | **1,400** | **120,000** |
| **Total Table 3+ (17 compounds)[2,3]** | **50** | **65** | **1,400** | **120,000** |
| **Total Table 3+ (20 compounds)[2]** | **54** | **79** | **1,400** | **120,000** |

# TABLE A2-1
## SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

| Location ID | OLDOF-1 | OLDOF-1[4] | OUTFALL 002 | Intake at Facility |
|---|---|---|---|---|
| Field Sample ID | CAP0721-OLDOF-1-24-072821 | CAP0721-OLDOF-1-24-072821 | CAP0721-OUTFALL-002-24-072821 | RIVER-WATER-INTAKE2-24-072821 |
| Sample Date | 7/28/2021 | 7/28/2021 | 7/28/2021 | 7/28/2021 |
| QA/QC | | | | |
| Sample Matrix | Liquid | Liquid | Liquid | Liquid |
| Sample Delivery Group (SDG) | 320-76991-1 | 320-76991-2 | 320-77020-1 | 320-77020-1 |
| Lab Sample ID | 320-76991-6 | 320-76991-6 | 320-77020-1 | 320-77020-4 |
| **Table 3+ SOP (ng/L)** | | | | |
| HFPO-DA | **970** | **1,100 J** | **190** | **10** |
| PFMOAA | **5,400** | **3,900 J** | **9.2 J** | <2.0 |
| PFO2HxA | **1,500** | **1,400 J** | **20** | **7.4** |
| PFO3OA | **500** | **410 J** | **7.0** | <2.0 |
| PFO4DA | **180** | **160 J** | **4.8** | <2.0 |
| PFO5DA | **87** | **64 J** | **2.7** | <2.0 |
| PMPA | **810** | **590 J** | **37** | **25** |
| PEPA | **250** | **240 J** | <20 | <20 |
| PS Acid | **5.4** | **6.9 J** | **93** | <2.0 |
| Hydro-PS Acid | **35** | **38 J** | **12** | <2.0 |
| R-PSDA | **56 J** | **43 J** | **61 J** | <2.0 |
| Hydrolyzed PSDA | **120 J** | **84 J** | **160 J** | <2.0 |
| R-PSDCA | <2.0 | <2.0 UJ | <2.0 | <2.0 |
| NVHOS | **62** | **55 J** | **9.8** | <2.0 |
| EVE Acid | <2.0 | <2.0 UJ | **130** | <2.0 |
| Hydro-EVE Acid | **22** | **20 J** | **22** | <2.0 |
| R-EVE | **34 J** | **19 J** | **230 J** | <2.0 |
| PES | <2.0 | <2.0 UJ | <2.0 | <2.0 |
| PFECA B | <2.7 | <2.7 UJ | <2.0 | <2.0 |
| PFECA-G | <4.8 | <4.8 UJ | <2.0 | <2.0 |
| Perfluoroheptanoic Acid | **5.3** | <9.4 UJ | **7.7** | **4.8** |
| **Total Attachment C[1,2]** | **9,700** | **7,900** | **380** | **42** |
| **Total Table 3+ (17 compounds)[2,3]** | **9,800** | **8,000** | **540** | **42** |
| **Total Table 3+ (20 compounds)[2]** | **10,000** | **8,100** | **990** | **42** |

# TABLE A2-1
## SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

| Location ID | SEEP-A-EFF | SEEP-B-EFF | SEEP-C-EFF | SEEP-D-EFF |
|---|---|---|---|---|
| Field Sample ID | CAP0721-SEEP-A-EFF-24-072921 | CAP0721-SEEP-B-EFF-24-072821 | CAP0721-SEEP-C-EFF-24-072821 | CAP0721-SEEP-D-EFF-24-072821 |
| Sample Date | 7/29/2021 | 7/28/2021 | 7/28/2021 | 7/28/2021 |
| QA/QC | | | | |
| Sample Matrix | Liquid | Liquid | Liquid | Liquid |
| Sample Delivery Group (SDG) | 320-77167-1 | 320-77002-1 | 320-77002-1 | 320-77002-1 |
| Lab Sample ID | 320-77167-2 | 320-77002-1 | 320-77002-2 | 320-77002-3 |
| **Table 3+ SOP (ng/L)** | | | | |
| HFPO-DA | <2.0 | <2.0 | **55** | <2.0 |
| PFMOAA | **4.0** | <2.0 | **340** | **16** |
| PFO2HxA | <2.0 | <2.0 | **88** | **7.5** |
| PFO3OA | <2.0 | <2.0 | **25** | <2.0 |
| PFO4DA | <2.0 | <2.0 | **6.7** | <2.0 |
| PFO5DA | <2.0 | <2.0 | <2.0 | <2.0 |
| PMPA | <10 | <10 | **84** | <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 | <2.0 | <2.0 | <2.0 | <2.0 |
| Hydrolyzed PSDA | <2.0 | <2.0 | **3.3 J** | <2.0 |
| R-PSDCA | <2.0 | <2.0 | <2.0 | <2.0 |
| NVHOS | <2.0 | <2.0 | **2.8** | <2.0 |
| EVE Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Hydro-EVE Acid | <2.0 | <2.0 | **2.7** | <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 | <2.0 | <2.0 | <2.0 | <2.0 |
| **Total Attachment C[1,2]** | **4.0** | ND | **600** | **24** |
| **Total Table 3+ (17 compounds)[2,3]** | **4** | ND | **600** | **24** |
| **Total Table 3+ (20 compounds)[2]** | **4** | ND | **610** | **24** |

# TABLE A2-1
## SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

| Location ID | WC-1 | WC-1 | EB | EB |
|---|---|---|---|---|
| Field Sample ID | CAP0721-WC-1-20-072821 | CAP0721-WC-1-20-072821-D | CAP0721-EQBLK-IS-072821 | CAP0721-EQBLK-PP-072821 |
| Sample Date | 7/28/2021 | 7/28/2021 | 7/28/2021 | 7/28/2021 |
| QA/QC | | Field Duplicate | Equipment Blank | Equipment Blank |
| Sample Matrix | Liquid | Liquid | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-77020-1 | 320-77020-1 | 320-77002-1 | 320-77002-1 |
| Lab Sample ID | 320-77020-2 | 320-77020-3 | 320-77002-5 | 320-77002-4 |
| **Table 3+ SOP (ng/L)** | | | | |
| HFPO-DA | **340** | **340** | <2.0 | <2.0 |
| PFMOAA | **570** | **540** | <2.0 | <2.0 |
| PFO2HxA | **330** | **360** | <2.0 | <2.0 |
| PFO3OA | **55** | **63** | <2.0 | <2.0 |
| PFO4DA | **15** | **16** | <2.0 | <2.0 |
| PFO5DA | <2.0 | **2.1** | <2.0 UJ | <2.0 |
| PMPA | **410** | **440** | <10 | <10 |
| PEPA | **86** | **95** | <20 | <20 |
| PS Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Hydro-PS Acid | **12** | **13** | <2.0 | <2.0 |
| R-PSDA | **72 J** | **77 J** | <2.0 | <2.0 |
| Hydrolyzed PSDA | **260 J** | **280 J** | <2.0 | <2.0 |
| R-PSDCA | <2.0 | <2.0 | <2.0 | <2.0 |
| NVHOS | **11** | **11** | <2.0 | <2.0 |
| EVE Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Hydro-EVE Acid | **4.6** | **4.8** | <2.0 | <2.0 |
| R-EVE | **39 J** | **41 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 | **2.1** | **2.1** | <2.0 | <2.0 |
| **Total Attachment C[1,2]** | **1,800** | **1,900** | ND | ND |
| **Total Table 3+ (17 compounds)[2,3]** | **1,800** | **1,900** | ND | ND |
| **Total Table 3+ (20 compounds)[2]** | **2,200** | **2,300** | ND | ND |

# TABLE A2-1
## SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

| Location ID | CFR-BLADEN | CFR-KINGS | CFR-MILE-76 | CFR-MILE-76[4] |
|---|---|---|---|---|
| Field Sample ID | CAP0821-CFR-BLADEN-081921 | CAP0821-CFR-KINGS-082521 | CAP0821-CFR-RM-76-081821 | CAP0821-CFR-RM-76-081821 |
| Sample Date | 8/19/2021 | 8/25/2021 | 08/18/2021 | 08/18/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-78262-1 | 320-78262-1 | 320-78260-1 | 320-78260-2 |
| Lab Sample ID | 320-78262-5 | 320-78262-4 | 320-78260-4 | 320-78260-4 |
| **Table 3+ SOP (ng/L)** | | | | |
| HFPO-DA | **13** | **4.2** | **12** | **2.3 J** |
| PFMOAA | **25** | **13** | **24** | <2.0 UJ |
| PFO2HxA | **15** | **6.3** | **14** | **2.8 J** |
| PFO3OA | **4.1** | <2.0 | **3.4** | <2.0 UJ |
| PFO4DA | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| PFO5DA | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| PMPA | **16** | <10 | **16** | <10 UJ |
| PEPA | <20 | <20 | <20 | <20 UJ |
| PS Acid | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| Hydro-PS Acid | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| R-PSDA | **18 J** | **11 J** | **19 J** | <2.0 UJ |
| Hydrolyzed PSDA | **19 J** | **6.0 J** | **18 J** | <2.0 UJ |
| R-PSDCA | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| NVHOS | **6.7** | **4.2** | **8.4** | <2.0 UJ |
| EVE Acid | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| Hydro-EVE Acid | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| R-EVE | **4.1 J** | **5.2 J** | **4.4 J** | <2.0 UJ |
| PES | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| PFECA B | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| PFECA-G | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| Perfluoroheptanoic Acid | **3.4** | **4.0** | **3.7** | **4.0 J** |
| **Total Attachment C[1,2]** | **73** | **24** | **69** | **5.1** |
| **Total Table 3+ (17 compounds)[2,3]** | **80** | **28** | **78** | **5.1** |
| **Total Table 3+ (20 compounds)[2]** | **120** | **50** | **120** | **5.1** |

# TABLE A2-1
## SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

| Location ID | CFR-TARHEEL | CFR-TARHEEL[4] | CFR-TARHEEL | CFR-TARHEEL[4] |
|---|---|---|---|---|
| Field Sample ID | CAP0821-CFR-TARHEEL-081921 | CAP0821-CFR-TARHEEL-081921 | CAP0821-CFR-TARHEEL-24-082021 | CAP0821-CFR-TARHEEL-24-082021 |
| Sample Date | 08/19/2021 | 08/19/2021 | 08/20/2021 | 08/20/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | LIQUID | Liquid | Liquid |
| Sample Delivery Group (SDG) | 320-78260-1 | 320-78260-2 | 320-78262-1 | 320-78262-2 |
| Lab Sample ID | 320-78260-5 | 320-78260-5 | 320-78262-1 | 320-78262-1 |
| **Table 3+ SOP (ng/L)** | | | | |
| HFPO-DA | **14** | **15 J** | **2.2** | **13 J** |
| PFMOAA | **26** | **28 J** | <2.0 | **22 J** |
| PFO2HxA | **17** | **17 J** | **2.6** | **14 J** |
| PFO3OA | **4.1** | **4.3 J** | <2.0 | **2.7 J** |
| PFO4DA | <2.0 | <2.0 UJ | <2.0 | <2.0 UJ |
| PFO5DA | <2.0 | <2.0 UJ | <2.0 | <2.0 UJ |
| PMPA | **17** | **18 J** | <10 | **15 J** |
| PEPA | <20 | <20 UJ | <20 | <20 UJ |
| PS Acid | <2.0 | <2.0 UJ | <2.0 | <2.0 UJ |
| Hydro-PS Acid | <2.0 | <2.0 UJ | <2.0 | <2.0 UJ |
| R-PSDA | **18 J** | **6.2 J** | **18 J** | <2.0 UJ |
| Hydrolyzed PSDA | **23 J** | **11 J** | **3.6 J** | <2.0 UJ |
| R-PSDCA | <2.0 | <2.0 UJ | <2.0 | <2.0 UJ |
| NVHOS | **7.0** | **6.8 J** | **7.5** | <2.0 UJ |
| EVE Acid | <2.0 | <2.0 UJ | <2.0 | <2.0 UJ |
| Hydro-EVE Acid | <2.0 | <2.0 UJ | <2.0 | <2.0 UJ |
| R-EVE | **3.8 J** | <2.0 UJ | **2.3 J** | <2.0 UJ |
| PES | <2.0 | <2.0 UJ | <2.0 | <2.0 UJ |
| PFECA B | <2.0 | <2.0 UJ | <2.0 | <2.0 UJ |
| PFECA-G | <2.0 | <2.0 UJ | <2.0 | <2.0 UJ |
| Perfluoroheptanoic Acid | **3.6** | **4.2 J** | **3.6** | **3.5 J** |
| **Total Attachment C[1,2]** | **78** | **82** | **4.8** | **67** |
| **Total Table 3+ (17 compounds)[2,3]** | **85** | **89** | **12** | **67** |
| **Total Table 3+ (20 compounds)[2]** | **130** | **110** | **36** | **67** |

# TABLE A2-1
## SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

| Location ID | GBC-1 | GBC-1[4] | Lock-Dam North | Lock-Dam Seep |
|---|---|---|---|---|
| **Field Sample ID** | **CAP0821-GBC-1-081821** | **CAP0821-GBC-1-081821** | **CAP0821-LOCK-DAM-NORTH-081821** | **CAP0821-LOCK-DAM-SEEP-081821** |
| **Sample Date** | **08/18/2021** | **08/18/2021** | **8/18/2021** | **8/18/2021** |
| **QA/QC** | | | | |
| **Sample Matrix** | **LIQUID** | **LIQUID** | **LIQUID** | **LIQUID** |
| **Sample Delivery Group (SDG)** | **320-78260-1** | **320-78260-2** | **320-78260-1** | **320-78260-1** |
| **Lab Sample ID** | **320-78260-3** | **320-78260-3** | **320-78260-2** | **320-78260-1** |
| **Table 3+ SOP (ng/L)** | | | | |
| HFPO-DA | <2.0 | **480 J** | **1,800 J** | **7,200 J** |
| PFMOAA | <2.0 | **81 J** | **800 J** | **69,000 J** |
| PFO2HxA | <2.0 | **320 J** | **1,500 J** | **23,000 J** |
| PFO3OA | <2.0 | **52 J** | **270 J** | **9,900 J** |
| PFO4DA | <2.0 | **19 J** | **85 J** | **2,000 J** |
| PFO5DA | <2.0 | **4.6 J** | **11 J** | **120 J** |
| PMPA | <10 | **610 J** | **2,500 J** | **6,600 J** |
| PEPA | <20 | **190 J** | **790 J** | **2,200 J** |
| PS Acid | <2.0 | <2.0 UJ | <2.0 UJ | <9.8 UJ |
| Hydro-PS Acid | <2.0 | **36 J** | **80 J** | **120 J** |
| R-PSDA | <2.0 | **36 J** | **120 J** | **590 J** |
| Hydrolyzed PSDA | <2.0 | <2.0 UJ | <2.0 UJ | **590 J** |
| R-PSDCA | <2.0 | <2.0 UJ | <2.0 UJ | <8.7 UJ |
| NVHOS | <2.0 | **3.3 J** | **22 J** | **860 J** |
| EVE Acid | <2.0 | <2.0 UJ | <2.0 UJ | <8.7 UJ |
| Hydro-EVE Acid | <2.0 | **2.5 J** | **10 J** | **85 J** |
| R-EVE | <2.0 | **14 J** | **62 J** | **210 J** |
| PES | <2.0 | <2.0 UJ | <2.0 UJ | <3.4 UJ |
| PFECA B | <2.0 | <2.0 UJ | <2.0 UJ | <13 UJ |
| PFECA-G | <2.0 | <2.0 UJ | <2.4 UJ | <24 UJ |
| Perfluoroheptanoic Acid | <2.0 | **2.4 J** | **5.2 J** | **62 J** |
| **Total Attachment C[1,2]** | ND | **1,800** | **7,800** | **120,000** |
| **Total Table 3+ (17 compounds)[2,3]** | ND | **1,800** | **7,900** | **120,000** |
| **Total Table 3+ (20 compounds)[2]** | ND | **1,800** | **8,100** | **120,000** |

# TABLE A2-1
## SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

| Location ID | OLDOF-1 | OLDOF-1 | OUTFALL 002 | Intake at Facility |
|---|---|---|---|---|
| Field Sample ID | CAP0821-OLDOF-1-24-081921 | CAP0821-OLDOF-1-24-081921-DUP | CAP0821-OUTFALL-002-24-082021 | RIVER-WATER-INTAKE2-24-081921 |
| Sample Date | 8/19/2021 | 8/19/2021 | 8/20/2021 | 8/19/2021 |
| QA/QC | | Field Duplicate | | |
| Sample Matrix | Liquid | Liquid | Liquid | Liquid |
| Sample Delivery Group (SDG) | 320-78253-1 | 320-78253-1 | 320-78262-1 | 320-78252-1 |
| Lab Sample ID | 320-78253-2 | 320-78253-3 | 320-78262-6 | 320-78252-5 |
| **Table 3+ SOP (ng/L)** | | | | |
| HFPO-DA | **490** | **500** | **39** | **12** |
| PFMOAA | **1,500** | **1,600** | **15** | **3.7** |
| PFO2HxA | **710** | **750** | **15** | **9.5** |
| PFO3OA | **220** | **250** | **3.6** | <2.0 |
| PFO4DA | **99** | **93** | <2.0 | <2.0 |
| PFO5DA | **36** | **37** | <2.0 | <2.0 |
| PMPA | **320** | **340** | **16** | **19** |
| PEPA | **120** | **130** | <20 | <20 |
| PS Acid | **3.8** | **3.6** | **2.1** | <2.0 |
| Hydro-PS Acid | **20** | **21** | **2.4** | <2.0 |
| R-PSDA | **26 J** | **32 J** | **15 J** | **9.1 J** |
| Hydrolyzed PSDA | **62 J** | **69 J** | **18 J** | <2.0 |
| R-PSDCA | <2.0 | <2.0 | <2.0 | <2.0 |
| NVHOS | **27** | **29** | **7.9** | **7.5** |
| EVE Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Hydro-EVE Acid | **10** | **10** | <2.0 | <2.0 |
| R-EVE | **11 J** | **13 J** | **6.4 J** | **2.0 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 | **2.2** | **2.3** | **3.8** | **4.4** |
| **Total Attachment C[1,2]** | **3,500** | **3,700** | **93** | **44** |
| **Total Table 3+ (17 compounds)[2,3]** | **3,600** | **3,800** | **100** | **52** |
| **Total Table 3+ (20 compounds)[2]** | **3,700** | **3,900** | **140** | **63** |

# TABLE A2-1
## SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

| Location ID | SEEP-A-EFF | SEEP-A-BYPASS-1 | SEEP-B-EFF | SEEP-C-EFF |
|---|---|---|---|---|
| Field Sample ID | SEEP-A-EFFLUENT-24-082021 | CAP0821-SEEP-A-BP-1-24-082021 | CAP0821-SEEP-B-EFF-24-082021 | SEEP-C-EFFLUENT-24-082021 |
| Sample Date | 8/20/2021 | 8/20/2021 | 8/20/2021 | 8/20/2021 |
| QA/QC | | | | |
| Sample Matrix | Liquid | Liquid | Liquid | Liquid |
| Sample Delivery Group (SDG) | 320-78111-1 | 320-78252-1 | 320-78252-1 | 320-78111-1 |
| Lab Sample ID | 320-78111-2 | 320-78252-1 | 320-78252-2 | 320-78111-4 |
| **Table 3+ SOP (ng/L)** | | | | |
| HFPO-DA | **6.5** | **2,200** | **3.6** | **6.4** |
| PFMOAA | **27** | **4,900** | **2.9** | **59** |
| PFO2HxA | **10** | **3,100** | **2.1** | **10** |
| PFO3OA | <2.0 | **1,100** | <2.0 | <2.0 |
| PFO4DA | <2.0 | **650** | <2.0 | <2.0 |
| PFO5DA | <2.0 | **450 J** | <2.0 | <2.0 |
| PMPA | <10 | **1,500** | <10 | **17** |
| PEPA | <20 | **670** | <20 | <20 |
| PS Acid | <2.0 | **380** | <2.0 | <2.0 |
| Hydro-PS Acid | <2.0 | **110** | <2.0 | <2.0 |
| R-PSDA | <2.0 | **170 J** | <2.0 | <2.0 |
| Hydrolyzed PSDA | **2.2 J** | **1,500 J** | <2.0 | <2.0 |
| R-PSDCA | <2.0 | **4** | <2.0 | <2.0 |
| NVHOS | <2.0 | **87** | <2.0 | <2.0 |
| EVE Acid | <2.0 | **44** | <2.0 | <2.0 |
| Hydro-EVE Acid | <2.0 | **130** | <2.0 | <2.0 |
| R-EVE | <2.0 | **86 J** | <2.0 | <2.0 |
| PES | <2.0 | <2.0 | <2.0 | <2.0 |
| PFECA B | <2.0 | <2.7 | <2.0 | <2.0 |
| PFECA-G | <2.0 | <4.8 | <2.0 | <2.0 |
| Perfluoroheptanoic Acid | -- | <9.4 | <2.0 | -- |
| **Total Attachment C[1,2]** | **44** | **15,000** | **8.6** | **92** |
| **Total Table 3+ (17 compounds)[2,3]** | **44** | **15,000** | **8.6** | **92** |
| **Total Table 3+ (20 compounds)[2]** | **46** | **17,000** | **8.6** | **92** |

# TABLE A2-1
## SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

| Location ID | SEEP-C-BYPASS-1 | SEEP-D-EFF | WC-1 | EB |
|---|---|---|---|---|
| Field Sample ID | CAP0821-SEEP-C-BP-1-24-081921 | CAP0821-SEEP-D-EFF-24-081921 | CAP0821-WC-1-24-081921 | CAP0821-EQBLK-IS-081921 |
| Sample Date | 8/19/2021 | 8/19/2021 | 8/19/2021 | 8/19/2021 |
| QA/QC | | | | Equipment Blank |
| Sample Matrix | Liquid | Liquid | Liquid | LIQUID |
| Sample Delivery Group (SDG) | 320-78252-1 | 320-78252-1 | 320-78253-1 | 320-78262-1 |
| Lab Sample ID | 320-78252-3 | 320-78252-4 | 320-78253-1 | 320-78262-3 |
| **Table 3+ SOP (ng/L)** | | | | |
| HFPO-DA | **14,000** | **4.1** | **240** | <2.0 |
| PFMOAA | **47,000** | **10** | **350** | <2.0 |
| PFO2HxA | **22,000** | **5.2** | **280** | <2.0 |
| PFO3OA | **7,800** | <2.0 | **48** | <2.0 |
| PFO4DA | **1,300** | <2.0 | **11** | <2.0 |
| PFO5DA | <39 | <2.0 | **2.1** | <2.0 |
| PMPA | **4,700** | <10 | **280** | <10 |
| PEPA | **1,600** | <20 | **75** | <20 |
| PS Acid | <9.8 | <2.0 | <2.0 | <2.0 |
| Hydro-PS Acid | **250** | <2.0 | **10** | <2.0 |
| R-PSDA | **740 J** | <2.0 | **85 J** | <2.0 |
| Hydrolyzed PSDA | **970 J** | <2.0 | **190 J** | <2.0 |
| R-PSDCA | **14** | <2.0 | <2.0 | <2.0 |
| NVHOS | **600** | <2.0 | **7.3** | <2.0 |
| EVE Acid | <8.7 | <2.0 | <2.0 | <2.0 |
| Hydro-EVE Acid | **820** | <2.0 | **2.6** | <2.0 |
| R-EVE | **620 J** | <2.0 | **38 J** | <2.0 |
| PES | **5** | <2.0 | <2.0 | <2.0 |
| PFECA B | <13 | <2.0 | <2.0 | <2.0 |
| PFECA-G | <24 | <2.0 | <2.0 | <2.0 |
| Perfluoroheptanoic Acid | **110** | <2.0 | **2.4** | <2.0 |
| **Total Attachment C[1,2]** | **99,000** | **19** | **1,300** | ND |
| **Total Table 3+ (17 compounds)[2,3]** | **100,000** | **19** | **1,300** | ND |
| **Total Table 3+ (20 compounds)[2]** | **100,000** | **19** | **1,600** | ND |

# TABLE A2-1
## SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

| Location ID | EB | CFR-BLADEN | CFR-KINGS | CFR-MILE-76 |
|---|---|---|---|---|
| Field Sample ID | CAP0821-EQBLK-PP-081921 | CAP0921-CFR-BLADEN-091421 | CAP0921-CFR-KINGS-092121 | CAP0921-CFR-RM-76-091421 |
| Sample Date | 8/19/2021 | 9/14/2021 | 9/21/2021 | 9/14/2021 |
| QA/QC | Equipment Blank | | | |
| Sample Matrix | LIQUID | Liquid | LIQUID | Liquid |
| Sample Delivery Group (SDG) | 320-78262-1 | 320-79067-1 | 320-79449-1 | 320-79067-1 |
| Lab Sample ID | 320-78262-2 | 320-79067-3 | 320-79449-2 | 320-79067-2 |
| **Table 3+ SOP (ng/L)** | | | | |
| HFPO-DA | <2.0 | **11** | **9** | <2.0 |
| PFMOAA | <2.0 | **32** | **28** | **2.6** |
| PFO2HxA | <2.0 | **17** | **13** | <2.0 |
| PFO3OA | <2.0 | **5** | **3.1** | <2.0 |
| PFO4DA | <2.0 | <2.0 | <2.0 | <2.0 |
| PFO5DA | <2.0 | <2.0 | <2.0 | <2.0 |
| PMPA | <10 | **23** | **19** | **12** |
| 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 | <2.0 | **7.6 J** | **7.5 J** | **7.4 J** |
| Hydrolyzed PSDA | <2.0 | **9.1 J** | **7.0 J** | **2.5 J** |
| R-PSDCA | <2.0 | <2.0 | <2.0 | <2.0 |
| NVHOS | <2.0 | **9.9** | **7.1** | **8.9** |
| 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 | **2.1 J** | **3.0 J** | <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 | <2.0 | **5.3** | **4.6** | **4.8** |
| **Total Attachment C[1,2]** | ND | **88** | **72** | **15** |
| **Total Table 3+ (17 compounds)[2,3]** | ND | **98** | **79** | **24** |
| **Total Table 3+ (20 compounds)[2]** | ND | **120** | **97** | **33** |

# TABLE A2-1
## SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

| Location ID | CFR-TARHEEL | CFR-TARHEEL | GBC-1 | Lock-Dam North |
|---|---|---|---|---|
| Field Sample ID | CAP0921-CFR-TARHEEL-091521 | CAP0921-CFR-TARHEEL-24-091521 | CAP0921-GBC-1-091421 | CAP0921-LOCK-DAM-NORTH-091421 |
| Sample Date | 9/15/2021 | 9/15/2021 | 9/14/2021 | 9/14/2021 |
| QA/QC | | | | |
| Sample Matrix | Liquid | Liquid | Liquid | Liquid |
| Sample Delivery Group (SDG) | 320-79067-1 | 320-79449-1 | 320-79067-1 | 320-79075-1 |
| Lab Sample ID | 320-79067-4 | 320-79449-1 | 320-79067-1 | 320-79075-1 |
| **Table 3+ SOP (ng/L)** | | | | |
| HFPO-DA | **14** | **13** | **490** | **2,100** |
| PFMOAA | **39** | **37** | **81** | **1,600** |
| PFO2HxA | **21** | **18** | **370** | **1,500** |
| PFO3OA | **5.1** | **4.3** | **66** | **280** |
| PFO4DA | <2.0 | <2.0 | **21** | **93** |
| PFO5DA | <2.0 | <2.0 | **2.1** | **14** |
| PMPA | **24** | **21** | **740** | **2,100** |
| PEPA | <20 | <20 | **230** | **810** |
| PS Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Hydro-PS Acid | <2.0 | <2.0 | **23** | **95** |
| R-PSDA | **8.8 J** | **11 J** | **31 J** | **130 J** |
| Hydrolyzed PSDA | **11 J** | **12 J** | <2.0 | <3.8 |
| R-PSDCA | <2.0 | <2.0 | <2.0 | <2.0 |
| NVHOS | **9.3** | **10** | **3.9** | **26** |
| EVE Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Hydro-EVE Acid | <2.0 | <2.0 | **2.0** | **13** |
| R-EVE | **3.0 J** | **2.5 J** | **14 J** | **46 J** |
| PES | <2.0 | <2.0 | <2.0 | <2.0 |
| PFECA B | <2.0 | <2.0 | <2.0 | <2.7 |
| PFECA-G | <2.0 | <2.0 | <2.0 | <4.8 |
| Perfluoroheptanoic Acid | **5.6** | **5.2** | **2.5** | <9.4 |
| **Total Attachment C[1,2]** | **100** | **93** | **2,000** | **8,600** |
| **Total Table 3+ (17 compounds)[2,3]** | **110** | **100** | **2,000** | **8,600** |
| **Total Table 3+ (20 compounds)[2]** | **140** | **130** | **2,100** | **8,800** |

# TABLE A2-1
## SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

| Location ID | Lock-Dam Seep | OLDOF-1 | OUTFALL 002 | OUTFALL 002 |
|---|---|---|---|---|
| Field Sample ID | CAP0921-LOCK-DAM-SEEP-091421 | CAP0921-OLDOF-1-24-091521 | CAP0921-OUTFALL-002-24-091521 | CAP0921-OUTFALL-002-24-091521D |
| Sample Date | 9/14/2021 | 9/15/2021 | 9/15/2021 | 9/15/2021 |
| QA/QC | | | | Field Duplicate |
| Sample Matrix | Liquid | Liquid | Liquid | Liquid |
| Sample Delivery Group (SDG) | 320-79067-1 | 320-79093-1 | 320-79065-1 | 320-79065-1 |
| Lab Sample ID | 320-79067-5 | 320-79093-4 | 320-79065-1 | 320-79065-2 |
| **Table 3+ SOP (ng/L)** | | | | |
| HFPO-DA | **9,300** | **190** | **33** | **34** |
| PFMOAA | **81,000** | **840** | **40** | **34** |
| PFO2HxA | **26,000** | **380** | **32** | **32** |
| PFO3OA | **11,000** | **140** | **5.9** | **6.0** |
| PFO4DA | **2,200** | **49** | <2.0 | <2.0 |
| PFO5DA | **84** | **13** | <2.0 | <2.0 |
| PMPA | **5,900** | **170** | **40** | **45** |
| PEPA | **2,400** | **59** | <20 | <20 |
| PS Acid | <9.8 | <2.0 | <2.0 | <2.0 |
| Hydro-PS Acid | **150** | **6.7** | <2.0 | <2.0 |
| R-PSDA | **650 J** | **9.1 J** | **11 J** | **12 J** |
| Hydrolyzed PSDA | **740 J** | **14 J** | **20 J** | **19 J** |
| R-PSDCA | **9.2** | <2.0 | <2.0 | <2.0 |
| NVHOS | **1,200** | **13** | **10** | **11** |
| EVE Acid | <8.7 | <2.0 | <2.0 | <2.0 |
| Hydro-EVE Acid | **140** | **3.6** | <2.0 | <2.0 |
| R-EVE | **200 J** | **4.9 J** | **3.3 J** | **3.6 J** |
| PES | <3.4 | <2.0 | <2.0 | <2.0 |
| PFECA B | <13 | <2.0 | <2.0 | <2.0 |
| PFECA-G | <24 | <2.0 | <2.0 | <2.0 |
| Perfluoroheptanoic Acid | **69** | <2.0 | **5.5** | **6.0** |
| **Total Attachment C[1,2]** | **140,000** | **1,800** | **150** | **150** |
| **Total Table 3+ (17 compounds)[2,3]** | **140,000** | **1,900** | **160** | **160** |
| **Total Table 3+ (20 compounds)[2]** | **140,000** | **1,900** | **200** | **200** |

# TABLE A2-1
## SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

| Location ID | Intake at Facility | SEEP-A-EFF | SEEP-B-EFF | SEEP-B-EFF[4] |
|---|---|---|---|---|
| Field Sample ID | RIVER-WATER-INTAKE2-24-091521 | CAP0921-SEEP-A-EFF-12-091421 | CAP0921-SEEP-B-EFF-24-091521 | CAP0921-SEEP-B-EFF-24-091521 |
| Sample Date | 9/15/2021 | 9/14/2021 | 9/15/2021 | 9/15/2021 |
| QA/QC | | | | |
| Sample Matrix | Liquid | Liquid | Liquid | Liquid |
| Sample Delivery Group (SDG) | 320-79093-1 | 320-79075-1 | 320-79093-1 | 320-79093-2 |
| Lab Sample ID | 320-79093-5 | 320-79075-4 | 320-79093-1 | 320-79093-1 |
| **Table 3+ SOP (ng/L)** | | | | |
| HFPO-DA | **27** | **4.9** | **54** | **57 J** |
| PFMOAA | **36** | **41** | **280** | **210 J** |
| PFO2HxA | **29** | **11** | **45** | **40 J** |
| PFO3OA | **5.1** | **2.3** | **6.3** | **6.0 J** |
| PFO4DA | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| PFO5DA | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| PMPA | **40** | **15** | **160** | **140 J** |
| PEPA | <20 | <20 | **45** | **43 J** |
| PS Acid | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| Hydro-PS Acid | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| R-PSDA | **11 J** | <2.0 | **6.0 J** | <2.0 UJ |
| Hydrolyzed PSDA | **12 J** | **2.6 J** | **32 J** | **29 J** |
| R-PSDCA | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| NVHOS | **10** | <2.0 | **2.7** | **2.8 J** |
| EVE Acid | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| Hydro-EVE Acid | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| R-EVE | **3.4 J** | <2.0 | **5.1 J** | <2.0 UJ |
| PES | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| PFECA B | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| PFECA-G | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| Perfluoroheptanoic Acid | **5** | <2.0 | <2.0 | <2.0 UJ |
| **Total Attachment C[1,2]** | **140** | **74** | **590** | **500** |
| **Total Table 3+ (17 compounds)[2,3]** | **150** | **74** | **590** | **500** |
| **Total Table 3+ (20 compounds)[2]** | **170** | **77** | **640** | **530** |

# TABLE A2-1
## SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

| Location ID | SEEP-C-EFF | SEEP-D-EFF | WC-1 |
|---|---|---|---|
| Field Sample ID | CAP0921-SEEP-C-EFF-24-091521 | CAP0921-SEEP-D-EFF-24-091521 | CAP0921-WC-1-24-091521 |
| Sample Date | 9/15/2021 | 9/15/2021 | 9/15/2021 |
| QA/QC | | | |
| Sample Matrix | Liquid | Liquid | Liquid |
| Sample Delivery Group (SDG) | 320-79093-1 | 320-79093-1 | 320-79065-1 |
| Lab Sample ID | 320-79093-2 | 320-79093-3 | 320-79065-3 |
| **Table 3+ SOP (ng/L)** | | | |
| HFPO-DA | **4.2** | **2.5** | **480** |
| PFMOAA | **67** | **10** | **1,100** |
| PFO2HxA | **8.3** | **4.0** | **680** |
| PFO3OA | <2.0 | <2.0 | **130** |
| PFO4DA | <2.0 | <2.0 | **26** |
| PFO5DA | <2.0 | <2.0 | **2.5** |
| PMPA | **16** | <10 | **710** |
| PEPA | <20 | <20 | **190** |
| PS Acid | <2.0 | <2.0 | <2.0 |
| Hydro-PS Acid | <2.0 | <2.0 | **16** |
| R-PSDA | <2.0 | <2.0 | **50 J** |
| Hydrolyzed PSDA | <2.0 | <2.0 | **310 J** |
| R-PSDCA | <2.0 | <2.0 | <2.0 |
| NVHOS | <2.0 | <2.0 | **22** |
| EVE Acid | <2.0 | <2.0 | <2.0 |
| Hydro-EVE Acid | <2.0 | <2.0 | **8.7** |
| R-EVE | <2.0 | <2.0 | **26 J** |
| 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 | **3.0** |
| **Total Attachment C[1,2]** | **96** | **17** | **3,300** |
| **Total Table 3+ (17 compounds)[2,3]** | **96** | **17** | **3,400** |
| **Total Table 3+ (20 compounds)[2]** | **96** | **17** | **3,800** |

# TABLE A2-1
## SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

| Location ID | EB | EB |
|---|---|---|
| Field Sample ID | CAP0921-EQBLK-IS-091421 | CAP0921-EQBLK-PP-091421 |
| Sample Date | 9/14/2021 | 9/14/2021 |
| QA/QC | Equipment Blank | Equipment Blank |
| Sample Matrix | Liquid | Liquid |
| Sample Delivery Group (SDG) | 320-79075-1 | 320-79075-1 |
| Lab Sample ID | 320-79075-2 | 320-79075-3 |
| **Table 3+ SOP (ng/L)** | | |
| 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 |
| **Total Attachment C[1,2]** | ND | ND |
| **Total Table 3+ (17 compounds)[2,3]** | ND | ND |
| **Total Table 3+ (20 compounds)[2]** | 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 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 Perfluoroheptanoic acid (PFHpA), R-PSDA, Hydrolyzed PSDA, and R-EVE.

4 - Samples collected at CFR-MILE-76 on July 27, 2021, OLDOF-1 on July 28, 2021, CFR-MILE-76 on August 18, 2021, GBC-1 on August 18, 2021, CFR-TARHEEL on August 19, 2021, CFR-TARHEEL on August 20, 2021 and Seep B Effluent on September 15, 2021 were reanalyzed. The reanalyzed results were used in mass loading calculations.

**TABLE A2-2**
**SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Location ID | CFR-BLADEN | CFR-KINGS | CFR-MILE-76 | CFR-TARHEEL | CFR-TARHEEL |
|---|---|---|---|---|---|
| Field Sample ID | CAP0721-CFR-BLADEN-072721 | CAP0721-CFR-KINGS-073021 | CAP0721-CFR-RM-76-072721 | CAP0721-CFR-TARHEEL-072821 | CAP0721-CFR-TARHEEL-24-072821 |
| Sample Date | 7/27/2021 | 7/30/2021 | 7/27/2021 | 7/28/2021 | 7/28/2021 |
| QA/QC | | | | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID | Liquid |
| Sample Delivery Group (SDG) | 320-76991-1 | 320-77167-1 | 320-76991-1 | 320-76991-1 | 320-77167-1 |
| Lab Sample ID | 320-76991-2 | 320-77167-3 | 320-76991-1 | 320-76991-5 | 320-77167-1 |
| **537 Mod (ng/L)** | | | | | |
| Perfluorobutanoic Acid | **5.9** | **6.0** | **5.3** | **5.3** | **5.7** |
| 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 | **9.3** | **11** | **9.5** | **8.8** | **9.0** |
| 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 | **13** | **11** | **11** | **12** | **12** |
| 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 | **8.1** | **7.9** | **8.5** | **8.4** | **7.8** |

**TABLE A2-2**
**SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Location ID | GBC-1 | Lock-Dam Seep | OLDOF-1 | OUTFALL 002 | River Water Intake 2 |
|---|---|---|---|---|---|
| Field Sample ID | CAP0721-GBC-1-072721 | CAP0721-LOCK-DAM-SEEP-072721 | CAP0721-OLDOF-1-24-072821 | CAP0721-OUTFALL-002-24-072821 | RIVER-WATER-INTAKE2-24-072821 |
| Sample Date | 7/27/2021 | 7/27/2021 | 7/28/2021 | 7/28/2021 | 7/28/2021 |
| QA/QC | | | | | |
| Sample Matrix | LIQUID | LIQUID | Liquid | Liquid | Liquid |
| Sample Delivery Group (SDG) | 320-76991-1 | 320-76991-1 | 320-76991-1 | 320-77020-1 | 320-77020-1 |
| Lab Sample ID | 320-76991-3 | 320-76991-4 | 320-76991-6 | 320-77020-1 | 320-77020-4 |
| **537 Mod (ng/L)** | | | | | |
| Perfluorobutanoic Acid | **8.8** | **73** | **12** | **7.0** | **6.7** |
| 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 | **2.7** | **13** | **2.3** | **10** | **11** |
| Perfluorononanoic Acid | <2.0 | **2.7** | <2.0 | <2.0 | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | **8.6** | **470** | **23** | **29** | **13** |
| 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 | **3.2** | **12** | **5.7** | **9.1** | **8.1** |

**TABLE A2-2**
**SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Location ID | SEEP-A-EFF | SEEP-B-EFF | SEEP-C-EFF | SEEP-D-EFF | WC-1 |
|---|---|---|---|---|---|
| Field Sample ID | CAP0721-SEEP-A-EFF-24-072921 | CAP0721-SEEP-B-EFF-24-072821 | CAP0721-SEEP-C-EFF-24-072821 | CAP0721-SEEP-D-EFF-24-072821 | CAP0721-WC-1-20-072821 |
| Sample Date | 7/29/2021 | 7/28/2021 | 7/28/2021 | 7/28/2021 | 7/28/2021 |
| QA/QC | | | | | |
| Sample Matrix | Liquid | Liquid | Liquid | Liquid | Liquid |
| Sample Delivery Group (SDG) | 320-77167-1 | 320-77002-1 | 320-77002-1 | 320-77002-1 | 320-77020-1 |
| Lab Sample ID | 320-77167-2 | 320-77002-1 | 320-77002-2 | 320-77002-3 | 320-77020-2 |
| **537 Mod (ng/L)** | | | | | |
| Perfluorobutanoic Acid | <5.0 | <5.0 | <5.0 | <5.0 | **7.4** |
| 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 | **3.6** |
| 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 | **3.7** | <2.0 | **9.6** |
| 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 | **5.7** |

**TABLE A2-2**
**SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Location ID | WC-1 | EB | EB |
|---|---|---|---|
| Field Sample ID | CAP0721-WC-1-20-072821-D | CAP0721-EQBLK-IS-072821 | CAP0721-EQBLK-PP-072821 |
| Sample Date | 7/28/2021 | 7/28/2021 | 7/28/2021 |
| QA/QC | Field Duplicate | Equipment Blank | Equipment Blank |
| Sample Matrix | Liquid | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-77020-1 | 320-77002-1 | 320-77002-1 |
| Lab Sample ID | 320-77020-3 | 320-77002-5 | 320-77002-4 |
| **537 Mod (ng/L)** | | | |
| Perfluorobutanoic Acid | **8.5** | <5.0 | <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 | **4.0** | <2.0 | <2.0 |
| Perfluorononanoic Acid | <2.0 | <2.0 | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | **10** | <2.0 | <2.0 |
| Perfluorotetradecanoic Acid | <2.0 | <2.0 | <2.0 |
| Perfluorotridecanoic Acid | <2.0 | <2.0 | <2.0 |
| Perfluoroundecanoic Acid | <2.0 | <2.0 | <2.0 |
| PFOA | **5.7** | <2.0 | <2.0 |

***Notes:***
**Bold** - Analyte detected above associated reporting limit
B - analyte detected in an associated blank
EPA - Environmental Protection Agency
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SDG - Sample Delivery Group
< - Analyte not detected above associated reporting limit.

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

| Pathway / Location | July 2021 | | | August 2021 | | | September 2021 | | |
|---|---|---|---|---|---|---|---|---|---|
| | Flow Measurement Date | Instantaneous Flow Rate ($ft^3/s$)[1] | Flow Rate (gpm) | Flow Measurement Date | Instantaneous Flow Rate ($ft^3/s$)[1] | Flow Rate (gpm) | Flow Measurement Date | Instantaneous Flow Rate ($ft^3/s$)[1] | Flow Rate (gpm) |
| Upstream River Water and Groundwater[2] | 7/27/2021 | 2,120 | 951,525 | 8/18/2021 | 1,840 | 825,852 | 9/14/2021 | 1,140 | 511,669 |
| Willis Creek[3] | 7/27/2021 | 12.6 | 5,655 | 8/18/2021 | 13.65 | 6,124 | 9/15/2021 | 6.4 | 2,880 |
| Intake River Water at Facility | 7/27/2021 | 23 | 10,442 | 8/18/2021 | 22 | 9,776 | 9/14/2021 | 21 | 9,465 |
| Outfall 002 | 7/27/2021 | 24 | 10,951 | 8/19/2021 | 19 | 8,639 | 9/15/2021 | 19 | 8,639 |
| Stormwater Treatment System | 7/27/2021 | --[4] | --[4] | 8/18/2021 | 0.16 | 72 | 9/15/2021 | --[4] | --[4] |
| Seep A[5] | 7/28/2021 | 0.30 | 134 | 8/20/2021 | 0.30 | 134 | 9/14/2021 | 0.30 | 134 |
| Seep B | 7/27/2021 | 1.01 | 453 | 8/19/2021 | 0.47 | 209 | 9/15/2021 | 0.27 | 123 |
| Seep C | 7/27/2021 | 0.07 | 29 | 8/20/2021 | 0.09 | 40 | 9/15/2021 | 0.08 | 35 |
| Seep D | 7/27/2021 | 0.28 | 128 | 8/18/2021 | 0.57 | 257 | 9/15/2021 | 0.72 | 324 |
| Lock and Dam Seep | 7/27/2021 | 0.01 | 6 | 8/18/2021 | 0.03 | 14 | 9/14/2021 | 0.024 | 10.6 |
| Old Outfall 002 | 7/27/2021 | 1.2 | 524 | 8/18/2021 | 1.46 | 654 | 9/15/2021 | 1.76 | 791 |
| Georgia Branch Creek | 7/27/2021 | 8.1 | 3,656 | 8/18/2021 | 6.74 | 3,024 | 9/14/2021 | 4.44 | 1,993 |
| CFR-TARHEEL[6] | 7/29/2021 | 2,922 | 1,188,698 | 8/19/2021 | 2,645 | 1,236,480 | 9/15/2021 | 1,013 | 473,703 |
| CFR-TARHEEL[7] | 7/28/2021 | 4,220 | 1,894,073 | 8/19/2021 | 2,270 | 1,018,850 | 9/15/2021 | 1,120 | 502,692 |
| CFR-BLADEN[8] | 7/27/2021 | 2,640 | 1,184,918 | 8/19/2021 | 2,330 | 1,045,780 | 9/14/2021 | 1,140 | 511,669 |
| CFR-KINGS[9] | 7/30/2021 | 3,070 | 1,377,916 | 8/25/2021 | 3,720 | 1,669,657 | 9/21/2021 | 1,100 | 493,716 |

***Notes***

1 - Flow measurement methods are described in Table 2. Detailed flow data and calculations are provided in Appendix B.

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 - July 2021 field forms noted that part of the Willis Creek cross section used to calculate Marsh McBirney flow was influenced by a downed tree downstream. The portion of the cross section that was influenced by the downed tree was not included in the flow calculation since it contributed minimal flow.

4 - There was no flow to the Stormwater Treatment System during the July or September 2021 sampling events, therefore a sample was not collected and flow was not measured at this location for those months.

5 - In July, August, and September 2021, 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 Q3 2020 (Geosyntec, 2021b).

6 - 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 July 28-29, 2021; the composite sample between August 19-20, 2021; the composite sample on September 14-15, 2021.

7 - 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.

8 - 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.

9 - 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.

**TABLE A4**
**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 (µS/cm) | Temperature (°C) |
|---|---|---|---|---|---|---|---|
| CFR-BLADEN | 7/27/2021 | 6.4 | 6.9 | 175 | 20 | 115 | 31.4 |
| CFR-KINGS | 7/30/2021 | 6.8 | 5.6 | 94 | 14 | 99 | 29.6 |
| CFR-RM-76 | 7/27/2021 | 6.7 | 6.3 | 219 | 9.3 | 125 | 31.2 |
| CFR-TARHEEL | 7/28/2021 | 7.2 | 6.1 | 109 | 4.8 | 101 | 29.7 |
| CFR-TARHEEL | 7/29/2021 | 6.9 | 6.0 | 108 | 27 | 74 | 31.2 |
| GBC-1 | 7/27/2021 | 4.6 | 7.6 | 290 | 20 | 85 | 32.8 |
| Intake at Facility | 7/28/2021 | 6.9 | 7.1 | 448 | 12 | 143 | 31.0 |
| LOCK-DAM-SEEP | 7/27/2021 | 6.0 | 7.4 | 136 | 20 | 127 | 26.8 |
| OLDOF-1 | 7/28/2021 | 4.7 | 8.0 | 266 | 33 | 221 | 23.7 |
| OUTFALL 002 | 7/28/2021 | 6.5 | 7.7 | 165 | 15 | 157 | 32.6 |
| SEEP-A-EFF | 7/29/2021 | 4.6 | 4.5 | 308 | 0.0 | 118 | 27.4 |
| SEEP-B-EFF | 7/28/2021 | 5.6 | 6.1 | 168 | 7.5 | 92 | 28.0 |
| SEEP-C-EFF | 7/28/2021 | 6.3 | 2.1 | 95 | 38 | 84 | 29.2 |
| SEEP-D-EFF | 7/28/2021 | 4.9 | 2.0 | 279 | 3.6 | 111 | 26.2 |
| WC-1 | 7/28/2021 | 4.8 | 7.3 | 209 | 8.9 | 77 | 25.8 |
| CFR-BLADEN | 8/19/2021 | 6.5 | 6.3 | 170 | 10 | 113 | 28.9 |
| CFR-KINGS | 8/25/2021 | 6.7 | 5.5 | 142 | 4.1 | 123 | 29.8 |
| CFR-RM-76 | 8/18/2021 | 7.3 | 6.6 | 95 | 3.9 | 120 | 29.7 |
| CFR-TARHEEL | 8/19/2021 | 7.5 | 6.2 | 129 | 7.5 | 117 | 29.6 |
| GBC-1 | 8/18/2021 | 5.7 | 7.1 | 191 | 3.3 | 93 | 28.9 |
| Intake at Facility | 8/19/2021 | 6.5 | 7.5 | 113 | 14 | 506 | 23.6 |
| LOCK-DAM SEEP | 8/18/2021 | 6.0 | 5.9 | 169 | 24 | 112 | 30.5 |
| LOCK-DAM SEEP NORTH | 8/18/2021 | 6.2 | 5.7 | 162 | 5.8 | 103 | 30.3 |
| OLDOF-1 | 8/18/2021 | 5.0 | 7.3 | 234 | 12 | 159 | 26.7 |
| OUTFALL-002 | 8/20/2021 | 6.4 | 6.4 | 203 | 22 | 118 | 28.1 |
| SEEP-A-EFF | 8/20/2021 | 4.6 | 7.0 | NM | 0.4 | 123 | 31.7 |
| SEEP-B-EFF | 8/20/2021 | 5.4 | 6.2 | 158 | 2.5 | 98 | 24.7 |
| SEEP-C-EFF | 8/20/2021 | 5.7 | 6.7 | NM | 4 | 93 | 32.7 |

**TABLE A4**
**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 (µS/cm) | Temperature (°C) |
|---|---|---|---|---|---|---|---|
| SEEP-D-EFF | 8/19//2021 | 4.9 | 3.5 | 246 | 2.2 | 104 | 24.3 |
| WC-1 | 8/19/2021 | 5.4 | 7.2 | 158 | 8.0 | 81 | 24.4 |
| CFR-BLADEN | 9/14/2021 | 6.8 | 7.2 | 102 | 9.0 | 107 | 26.4 |
| CFR-KINGS | 9/21/2021 | 7.0 | 6.9 | 108 | 4.8 | 200 | 25.6 |
| CFR-RM-76 | 9/14/2021 | 7.1 | 6.2 | 110 | 10 | 105 | 26.1 |
| CFR-TARHEEL | 9/15/2021 | 7.4 | 6.9 | 4.6 | 4.3 | 328 | 26.4 |
| GBC-1 | 9/14/2021 | 4.2 | 7.5 | 183 | 11 | 81 | 22.8 |
| Intake at Facility | 9/15/2021 | 7.0 | 7.3 | 121 | 4.6 | 158 | 29.2 |
| LOCK-DAM-SEEP | 9/14/2021 | 6.4 | 6.5 | 101 | 33 | 96 | 27.6 |
| LOCK-DAM-SEEP-NORTH | 9/14/2021 | 6.8 | 6.5 | 121 | 15 | 167 | 30.1 |
| OLDOF-1 | 9/15/2021 | 6.0 | 7.3 | 141 | 3.2 | 212 | 29.2 |
| OUTFALL 002 | 9/15/2021 | 6.9 | 7.5 | 88 | 3.5 | 187 | 30.1 |
| SEEP-A-EFF | 9/14/2021 | 4.5 | 3.0 | 172 | 0.8 | 142 | 24.5 |
| SEEP-B-EFF | 9/15/2021 | 5.9 | 3.4 | 133 | 0.9 | 126 | 24.2 |
| SEEP-C-EFF | 9/15/2021 | 5.8 | 2.6 | 118 | 1.1 | 105 | 27.8 |
| SEEP-D-EFF | 9/15/2021 | 4.3 | 3.5 | 189 | 1.2 | 121 | 27.2 |
| WC-1 | 9/15/2021 | 5.2 | 7.5 | 136 | 15 | 135 | 28.8 |

***Abbreviations:***
°C - degrees Celsius
mg/L - milligrams per liter
µS/cm - microsiemens per centimeter
mV- millivolts
NTU - Nephelometric Turbidity Units
S.U. - Standard Units
NM - not measured

# TABLE A5-1
## GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

| Water Bearing Unit[1] | Floodplain Deposits | Black Creek Aquifer | Black Creek Aquifer | Floodplain Deposits |
|---|---|---|---|---|
| Location ID | LTW-01 | LTW-02 | LTW-02 | LTW-03 |
| Field Sample ID | CAP0721-LTW-01-072921 | CAP0721-LTW-02-072921 | CAP0721-LTW-02-072921-D | CAP0721-LTW-03-072621 |
| Sample Date | 7/29/2021 | 7/29/2021 | 7/29/2021 | 7/26/2021 |
| QA/QC | | | Field Duplicate | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-77180-1 | 320-77151-1 | 320-77151-1 | 320-77001-1 |
| Lab Sample ID | 320-77180-8 | 320-77151-1 | 320-77151-2 | 320-77001-2 |
| *Table 3+ SOP (ng/L)* | | | | |
| HFPO-DA | **19,000** | **6,400** | **6,500** | **9,800** |
| PFMOAA | **31,000** | **18,000** | **21,000** | **120,000** |
| PFO2HxA | **22,000** | **9,800** | **11,000** | **29,000** |
| PFO3OA | **4,600** | **2,400** | **2,700** | **5,200** |
| PFO4DA | **1,100** | **170** | **190** | **160** |
| PFO5DA | **180** | <78 | <78 | <78 |
| PMPA | **19,000** | **4,400** | **5,900** | **12,000** |
| PEPA | **5,000** | **1,400** | **1,500** | **2,500** |
| PS Acid | <20 | <20 | <20 | <20 |
| Hydro-PS Acid | **270** | **15** | **18** | **18** |
| R-PSDA | **820 J** | **330 J** | <71 | **530 J** |
| Hydrolyzed PSDA | **520 J** | **910 J** | **1,100 J** | **3,800 J** |
| R-PSDCA | <17 | <17 | <17 | <17 |
| NVHOS | **400** | **250** | **280** | **900** |
| EVE Acid | <17 | <17 | <17 | <17 |
| Hydro-EVE Acid | **120** | **39** | **44** | **45** |
| R-EVE | **550 J** | **280 J** | <72 | **400 J** |
| PES | <6.7 | <6.7 | <6.7 | <6.7 |
| PFECA B | <27 | <27 | <27 | <27 |
| PFECA-G | <48 | <48 | <48 | <48 |
| Perfluoroheptanoic Acid | **49** | **11** | **12** | **25** |
| **Total Attachment C[2,3]** | **100,000** | **43,000** | **49,000** | **180,000** |
| **Total Table 3+ (17 compounds)[3,4]** | **100,000** | **43,000** | **49,000** | **180,000** |
| **Total Table 3+ (20 compounds)[3]** | **100,000** | **44,000** | **50,000** | **180,000** |

**TABLE A5-1**
**GROUNDWATER ANALYTICAL RESULTS**
Chemours Fayetteville Works, North Carolina

| Water Bearing Unit[1] | Floodplain Deposits | Floodplain Deposits | Black Creek Aquifer | Black Creek Aquifer |
|---|---|---|---|---|
| Location ID | LTW-04 | LTW-04 | LTW-05 | PIW-1D |
| Field Sample ID | CAP0721-LTW-04-073021 | CAP0721-LTW-04-073021-D | CAP0721-LTW-05-073021 | CAP0721-PIW-1D-071621 |
| Sample Date | 7/30/2021 | 7/30/2021 | 7/30/2021 | 7/16/2021 |
| QA/QC | | Field Duplicate | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-77151-1 | 320-77151-1 | 320-77178-1 | 320-76583-1 |
| Lab Sample ID | 320-77151-3 | 320-77151-4 | 320-77178-2 | 320-76583-4 |
| ***Table 3+ SOP (ng/L)*** | | | | |
| HFPO-DA | **22,000** | **22,000** | **16,000** | **11,000** |
| PFMOAA | **85,000** | **84,000** | **160,000** | **14,000** |
| PFO2HxA | **24,000** | **24,000** | **33,000** | **8,600** |
| PFO3OA | **5,100** | **5,000** | **10,000** | **1,700** |
| PFO4DA | **460** | **510** | **2,000** | **330** |
| PFO5DA | <78 | <78 | <78 | <78 |
| PMPA | **19,000** | **19,000** | **4,600** | **9,200** |
| PEPA | **5,800** | **5,600** | **380** | **2,700** |
| PS Acid | <20 | <20 | <20 | <20 |
| Hydro-PS Acid | **160** | **190** | **200** | **36** |
| R-PSDA | **1,300 J** | **1,700 J** | **150 J** | **260 J** |
| Hydrolyzed PSDA | **3,600 J** | **4,200 J** | **450 J** | <38 |
| R-PSDCA | **17** | <17 | **25** | <17 |
| NVHOS | **1,600** | **1,600** | **1,000** | **150** |
| EVE Acid | <17 | <17 | <17 | <17 |
| Hydro-EVE Acid | **560** | **610** | **860** | **29** |
| R-EVE | **1,500 J** | **1,800 J** | **170 J** | **220 J** |
| PES | **8** | **10** | <6.7 | <6.7 |
| PFECA B | <27 | <27 | <27 | <27 |
| PFECA-G | <48 | <48 | <48 | <48 |
| Perfluoroheptanoic Acid | **71** | **70** | **290** | **16** |
| **Total Attachment C[2,3]** | **160,000** | **160,000** | **230,000** | **48,000** |
| **Total Table 3+ (17 compounds)[3,4]** | **160,000** | **160,000** | **230,000** | **48,000** |
| **Total Table 3+ (20 compounds)[3]** | **170,000** | **170,000** | **230,000** | **48,000** |

**TABLE A5-1**
**GROUNDWATER ANALYTICAL RESULTS**
Chemours Fayetteville Works, North Carolina

| Water Bearing Unit[1] | Floodplain Deposits | Black Creek Aquifer | Black Creek Aquifer | Floodplain Deposits |
|---|---|---|---|---|
| Location ID | PIW-1S | PIW-3D | PIW-7D | PIW-7S |
| Field Sample ID | CAP0721-PIW-1S-071421 | CAP0721-PIW-3D-072321 | CAP0721-PIW-7D-071621 | CAP0721-PIW-7S-071621 |
| Sample Date | 7/14/2021 | 7/23/2021 | 7/16/2021 | 7/16/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-76320-1 | 320-77006-1 | 320-76574-1 | 320-76574-1 |
| Lab Sample ID | 320-76320-4 | 320-77006-4 | 320-76574-1 | 320-76574-2 |
| ***Table 3+ SOP (ng/L)*** | | | | |
| HFPO-DA | **13,000** | **21,000** | **11,000** | **12,000** |
| PFMOAA | **2,400** | **5,000** | **140,000** | **13,000** |
| PFO2HxA | **8,300** | **8,900** | **31,000** | **8,300** |
| PFO3OA | **1,300** | **2,600** | **4,900** | **3,400** |
| PFO4DA | **310** | **3,300** | **1,200** | **440** |
| PFO5DA | <78 | **1,400** | <78 | <78 |
| PMPA | **13,000** | **10,000** | **4,300** | **9,000** |
| PEPA | **4,300** | **3,500** | **490** | **3,100** |
| PS Acid | <20 | <20 | <20 | <20 |
| Hydro-PS Acid | **110** | **2,100** | **91** | **230** |
| R-PSDA | **620 J** | **1,600 J** | **450 J** | **910 J** |
| Hydrolyzed PSDA | <38 | <38 | **830 J** | **75 J** |
| R-PSDCA | <17 | **31** | <17 | <17 |
| NVHOS | **99** | **320** | **850** | **540** |
| EVE Acid | <17 | <17 | <17 | <17 |
| Hydro-EVE Acid | <14 | **540** | **310** | **390** |
| R-EVE | **630 J** | **630 J** | **600 J** | **1,200 J** |
| PES | <6.7 | <6.7 | <6.7 | <6.7 |
| PFECA B | <27 | <27 | <27 | <27 |
| PFECA-G | <48 | <48 | <48 | <48 |
| Perfluoroheptanoic Acid | **19** | **32** | **80** | **52** |
| **Total Attachment C[2,3]** | **43,000** | **58,000** | **190,000** | **49,000** |
| **Total Table 3+ (17 compounds)[3,4]** | **43,000** | **59,000** | **190,000** | **50,000** |
| **Total Table 3+ (20 compounds)[3]** | **44,000** | **61,000** | **200,000** | **53,000** |

# TABLE A5-1
## GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

| Water Bearing Unit[1] | Black Creek Aquifer | Surficial Aquifer | Surficial Aquifer | Surficial Aquifer |
|---|---|---|---|---|
| **Location ID** | **PIW-10DR[5]** | **PW-04** | **PW-06** | **PW-07** |
| **Field Sample ID** | **CAP0721-PIW-10DR-072921** | **CAP0721-PW-04-072221** | **CAP0721-PW-06-073021** | **CAP0721-PW-07-072121** |
| **Sample Date** | **7/29/2021** | **7/22/2021** | **7/30/2021** | **7/21/2021** |
| **QA/QC** | | | | |
| **Sample Matrix** | **LIQUID** | **LIQUID** | **LIQUID** | **LIQUID** |
| **Sample Delivery Group (SDG)** | **320-77159-1** | **320-76696-1** | **320-77164-1** | **320-76701-1** |
| **Lab Sample ID** | **320-77159-8** | **320-76696-2** | **320-77164-7** | **320-76701-4** |
| ***Table 3+ SOP (ng/L)*** | | | | |
| HFPO-DA | **14,000** | **320** | **1,600** | **630** |
| PFMOAA | **31,000** | <80 | **190** | <80 |
| PFO2HxA | **17,000** | **380** | **790** | **760** |
| PFO3OA | **6,400** | **180** | <39 | **100** |
| PFO4DA | **1,200** | **190** | **61** | **95** |
| PFO5DA | <78 | <78 | <78 | <78 |
| PMPA | **7,900** | **1,000 B** | **2,400** | **1,100** |
| PEPA | **2,600** | **210** | **340** | **290** |
| PS Acid | <20 | <20 | <20 | <20 |
| Hydro-PS Acid | **130** | **90** | <6.1 | <6.1 |
| R-PSDA | **1,100 J** | <71 | <71 | <71 |
| Hydrolyzed PSDA | **4,500 J** | <38 | <38 | <38 |
| R-PSDCA | <17 | <17 | <17 | <17 |
| NVHOS | **440** | **27** | **120** | <15 |
| EVE Acid | <17 | <17 | <17 | <17 |
| Hydro-EVE Acid | **610** | **20** | <14 | <14 |
| R-EVE | **970 J** | <72 | <72 | <72 |
| PES | <6.7 | <6.7 | <6.7 | <6.7 |
| PFECA B | <27 | <27 | <27 | <27 |
| PFECA-G | <48 | <48 | <48 | <48 |
| Perfluoroheptanoic Acid | **89** | **5.2** | **5.8** | **5.9** |
| **Total Attachment C[2,3]** | **80,000** | **2,400** | **5,400** | **3,000** |
| **Total Table 3+ (17 compounds)[3,4]** | **81,000** | **2,400** | **5,500** | **3,000** |
| **Total Table 3+ (20 compounds)[3]** | **88,000** | **2,400** | **5,500** | **3,000** |

**TABLE A5-1**
**GROUNDWATER ANALYTICAL RESULTS**
Chemours Fayetteville Works, North Carolina

| Water Bearing Unit[1] | Black Creek Aquifer | Black Creek Aquifer | Black Creek Aquifer | Black Creek Aquifer |
|---|---|---|---|---|
| Location ID | PW-09 | PW-09 | PW-11 | PZ-22 |
| Field Sample ID | CAP0721-PW-09-070921 | CAP0721-PW-09-070921-Z | CAP0721-PW-11-072321 | CAP0721-PZ-22-072321 |
| Sample Date | 7/9/2021 | 7/9/2021 | 7/23/2021 | 7/23/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-76194-1 | 320-76194-1 | 320-77006-1 | 320-77006-1 |
| Lab Sample ID | 320-76194-2 | 320-76194-3 | 320-77006-1 | 320-77006-7 |
| *Table 3+ SOP (ng/L)* | | | | |
| HFPO-DA | <2.0 | <2.0 | **26,000** | **11,000** |
| PFMOAA | <2.0 | <2.0 | **190,000** | **190,000** |
| PFO2HxA | <2.0 | <2.0 | **51,000** | **36,000** |
| PFO3OA | <2.0 | <2.0 | **37,000** | **3,400** |
| PFO4DA | <2.0 | <2.0 | **53,000** | **140** |
| PFO5DA | <2.0 | <2.0 | **8,000** | <78 |
| PMPA | <10 | <10 | **11,000** | **4,800** |
| PEPA | <20 | <20 | **3,100** | **730** |
| PS Acid | <2.0 | <2.0 | **1,300** | <20 |
| Hydro-PS Acid | <2.0 | <2.0 | **6,900** | **20** |
| R-PSDA | <2.0 | <2.0 | **4,600 J** | **290 J** |
| Hydrolyzed PSDA | <2.0 | <2.0 | **10,000 J** | **600 J** |
| R-PSDCA | <2.0 | <2.0 | **240** | <17 |
| NVHOS | <2.0 | <2.0 | **2,700** | **1,100** |
| EVE Acid | <2.0 | <2.0 | **150** | <17 |
| Hydro-EVE Acid | <2.0 | <2.0 | **4,200** | **50** |
| R-EVE | <2.0 | <2.0 | **910 J** | **360 J** |
| PES | <2.0 | <2.0 | <6.7 | <6.7 |
| PFECA B | <2.0 | <2.0 | <27 | <27 |
| PFECA-G | <2.0 | <2.0 | <48 | <48 |
| Perfluoroheptanoic Acid | <2.0 | <2.0 | **300** | **18** |
| **Total Attachment C[2,3]** | ND | ND | **390,000** | **250,000** |
| **Total Table 3+ (17 compounds)[3,4]** | ND | ND | **390,000** | **250,000** |
| **Total Table 3+ (20 compounds)[3]** | ND | ND | **410,000** | **250,000** |

**TABLE A5-1**
**GROUNDWATER ANALYTICAL RESULTS**
Chemours Fayetteville Works, North Carolina

| Water Bearing Unit[1] | Surficial Aquifer | Surficial Aquifer | Black Creek Aquifer | Black Creek Aquifer |
|---|---|---|---|---|
| Location ID | SMW-10 | SMW-11 | SMW-12 | SMW-12 |
| Field Sample ID | CAP0721-SMW-10-073021 | CAP0621-SMW-11-070921 | CAP0721-SMW-12-070721 | CAP0721-SMW-12-070721-D |
| Sample Date | 7/30/2021 | 7/9/2021 | 7/7/2021 | 7/7/2021 |
| QA/QC | | | | Field Duplicate |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-77151-1 / 320-77151-2 | 320-76176-1 | 320-76201-1 | 320-76201-1 |
| Lab Sample ID | 320-77151-5 | 320-76176-6 | 320-76201-1 | 320-76201-2 |
| ***Table 3+ SOP (ng/L)*** | | | | |
| HFPO-DA | **2.1 J** | **3,700** | **1,500** | **1,700** |
| PFMOAA | **17 J** | **4,000** | **4,600** | **5,300** |
| PFO2HxA | **3.6 J** | **2,700** | **1,600** | **1,700** |
| PFO3OA | <2.0 UJ | **490** | <39 | <39 |
| PFO4DA | <2.0 UJ | **230** | <59 | <59 |
| PFO5DA | <2.0 UJ | **16** | <78 | <78 |
| PMPA | <10 UJ | **2,700** | **1,800** | **2,100** |
| PEPA | <20 | **600** | <20 | **350 J** |
| PS Acid | <2.0 UJ | <2.0 | <20 | <20 |
| Hydro-PS Acid | <2.0 UJ | **49** | <6.1 | <6.1 |
| R-PSDA | <2.0 UJ | **130 J** | <71 | <71 |
| Hydrolyzed PSDA | <2.0 UJ | <2.0 | <38 | <38 |
| R-PSDCA | <2.0 UJ | <2.0 | <17 | <17 |
| NVHOS | <2.0 UJ | **60** | **120** | **120** |
| EVE Acid | <17 | <2.0 | <17 | <17 |
| Hydro-EVE Acid | <2.0 UJ | **17** | <14 | <14 |
| R-EVE | <2.0 UJ | **110 J** | <72 | <72 |
| PES | <2.0 UJ | <2.0 | <6.7 | <6.7 |
| PFECA B | <2.0 UJ | <2.0 | <27 | <27 |
| PFECA-G | <2.0 UJ | <2.4 | <48 | <48 |
| Perfluoroheptanoic Acid | <2.0 | **13** | <2.0 | <2.0 |
| **Total Attachment C[2,3]** | **23** | **14,000** | **9,500** | **11,000** |
| **Total Table 3+ (17 compounds)[3,4]** | **23** | **15,000** | **9,600** | **11,000** |
| **Total Table 3+ (20 compounds)[3]** | **23** | **15,000** | **9,600** | **11,000** |

**TABLE A5-1**
**GROUNDWATER ANALYTICAL RESULTS**
Chemours Fayetteville Works, North Carolina

| **Water Bearing Unit**[1] | -- | -- | -- | -- |
|---|---|---|---|---|
| **Location ID** | **EB** | **EB** | **EB** | **EB** |
| **Field Sample ID** | **CAP0721-EQBLK-DV-070721** | **CAP0721-EQBLK-PP-070721** | **CAP0621-EQBLK-DV-071221** | **CAP0621-EQBLK-PP-071221** |
| **Sample Date** | **7/7/2021** | **7/7/2021** | **7/12/2021** | **7/12/2021** |
| **QA/QC** | **Equipment Blank** | **Equipment Blank** | **Equipment Blank** | **Equipment Blank** |
| **Sample Matrix** | **LIQUID** | **LIQUID** | **LIQUID** | **LIQUID** |
| **Sample Delivery Group (SDG)** | **320-76205-1** | **320-76205-1** | **320-76207-1** | **320-76207-1** |
| **Lab Sample ID** | **320-76205-5** | **320-76205-4** | **320-76207-4** | **320-76207-5** |
| ***Table 3+ SOP (ng/L)*** | | | | |
| HFPO-DA | <2.0 | <2.0 | <2.0 | <2.0 |
| PFMOAA | <2.0 | <2.0 | <2.0 | <2.0 |
| PFO2HxA | <2.0 | <2.0 | <2.0 | <2.0 |
| PFO3OA | <2.0 | <2.0 | <2.0 | <2.0 |
| 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 | <2.0 | <2.0 | <2.0 | <2.0 |
| Hydrolyzed PSDA | <2.0 | <2.0 | <2.0 | <2.0 |
| R-PSDCA | <2.0 | <2.0 | <2.0 | <2.0 |
| NVHOS | <2.0 | <2.0 | <2.0 | <2.0 |
| 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 | <2.0 | <2.0 | <2.0 | <2.0 |
| **Total Attachment C**[2,3] | ND | ND | ND | ND |
| **Total Table 3+ (17 compounds)**[3,4] | ND | ND | ND | ND |
| **Total Table 3+ (20 compounds)**[3] | ND | ND | ND | ND |

**TABLE A5-1**
**GROUNDWATER ANALYTICAL RESULTS**
Chemours Fayetteville Works, North Carolina

| **Water Bearing Unit**[1] | -- | -- | -- | -- |
|---|---|---|---|---|
| **Location ID** | **EB** | **EB** | **EB** | **EB** |
| **Field Sample ID** | **CAP0621-EQBLK-PP-071221-Z** | **CAP0721-EQBLK-PP-071421** | **CAP0721-EQBLK-PP-071921** | **CAP0721-EQBLK-PP-072221** |
| **Sample Date** | **7/12/2021** | **7/14/2021** | **7/19/2021** | **7/22/2021** |
| **QA/QC** | **Equipment Blank** | **Equipment Blank** | **Equipment Blank** | **Equipment Blank** |
| **Sample Matrix** | **LIQUID** | **LIQUID** | **LIQUID** | **LIQUID** |
| **Sample Delivery Group (SDG)** | **320-76207-1** | **320-76392-1** | **320-76585-1** | **320-76696-1** |
| **Lab Sample ID** | **320-76207-6** | **320-76392-3** | **320-76585-3** | **320-76696-4** |
| ***Table 3+ SOP (ng/L)*** | | | | |
| HFPO-DA | <2.0 | <2.0 | <81 | <2.0 |
| PFMOAA | <2.0 | <2.0 | <80 | <2.0 |
| PFO2HxA | <2.0 | <2.0 | <27 | <2.0 |
| PFO3OA | <2.0 | <2.0 | <39 | <2.0 |
| PFO4DA | <2.0 | <2.0 | <59 | <2.0 |
| PFO5DA | <2.0 | <2.0 | <78 | <2.0 |
| PMPA | <10 | <10 | <620 | <10 |
| PEPA | <20 | <20 | <20 | <20 |
| PS Acid | <2.0 | <2.0 | <20 | <2.0 |
| Hydro-PS Acid | <2.0 | <2.0 | <6.1 | <2.0 |
| R-PSDA | <2.0 | <2.0 | <71 | <2.0 |
| Hydrolyzed PSDA | <2.0 | <2.0 | <38 | <2.0 |
| R-PSDCA | <2.0 | <2.0 | <17 | <2.0 |
| NVHOS | <2.0 | <2.0 | <15 | <2.0 |
| EVE Acid | <2.0 | <2.0 | <17 | <2.0 |
| Hydro-EVE Acid | <2.0 | <2.0 | <14 | <2.0 |
| R-EVE | <2.0 | <2.0 | <72 | <2.0 |
| PES | <2.0 | <2.0 | <6.7 | <2.0 |
| PFECA B | <2.0 | <2.0 | <27 | <2.0 |
| PFECA-G | <2.0 | <2.0 | <48 | <2.0 |
| Perfluoroheptanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| **Total Attachment C**[2,3] | ND | ND | ND | ND |
| **Total Table 3+ (17 compounds)**[3,4] | ND | ND | ND | ND |
| **Total Table 3+ (20 compounds)**[3] | ND | ND | ND | ND |

**TABLE A5-1**
**GROUNDWATER ANALYTICAL RESULTS**
Chemours Fayetteville Works, North Carolina

| **Water Bearing Unit**[1] | -- | -- | -- | **Floodplain Deposits** |
|---|---|---|---|---|
| **Location ID** | **EB** | **EB** | **EB** | **LTW-01** |
| **Field Sample ID** | **CAP0721-EQBLK-PP-072821-2** | **CAP0721-EQBLK-PP-072921** | **CAP0721-EQBLK-PP-073021** | **CAP0821-LTW-01-083121** |
| **Sample Date** | **7/28/2021** | **7/29/2021** | **7/30/2021** | **8/31/2021** |
| **QA/QC** | **Equipment Blank** | **Equipment Blank** | **Equipment Blank** | |
| **Sample Matrix** | **LIQUID** | **LIQUID** | **LIQUID** | **LIQUID** |
| **Sample Delivery Group (SDG)** | **320-77001-1** | **320-77180-1** | **320-77178-1** | **320-78497-1** |
| **Lab Sample ID** | **320-77001-7** | **320-77180-7** | **320-77178-3** | **320-78497-3** |
| ***Table 3+ SOP (ng/L)*** | | | | |
| HFPO-DA | <2.0 | <2.0 | <2.0 | **16,000** |
| PFMOAA | <2.0 | <2.0 | <2.0 | **17,000** |
| PFO2HxA | <2.0 | <2.0 | <2.0 | **19,000** |
| PFO3OA | <2.0 | <2.0 | <2.0 | **3,900** |
| PFO4DA | <2.0 | <2.0 | <2.0 | **940** |
| PFO5DA | <2.0 | <2.0 | <2.0 | **160** |
| PMPA | <10 | <10 | <10 | **13,000** |
| PEPA | <20 | <20 | <20 | **5,100** |
| PS Acid | <2.0 | <2.0 | <2.0 | <20 |
| Hydro-PS Acid | <2.0 | <2.0 | <2.0 | **230** |
| R-PSDA | <2.0 | <2.0 | <2.0 | **670 J** |
| Hydrolyzed PSDA | <2.0 | <2.0 | <2.0 | **350 J** |
| R-PSDCA | <2.0 | <2.0 | <2.0 | <17 |
| NVHOS | <2.0 | <2.0 | <2.0 | **270** |
| EVE Acid | <2.0 | <2.0 | <2.0 | <17 |
| Hydro-EVE Acid | <2.0 | <2.0 | <2.0 | **92** |
| R-EVE | <2.0 | <2.0 | <2.0 | **420 J** |
| PES | <2.0 | <2.0 | <2.0 | <6.7 |
| PFECA B | <2.0 | <2.0 | <2.0 | <27 |
| PFECA-G | <2.0 | <2.0 | <2.0 | <48 |
| Perfluoroheptanoic Acid | <2.0 | <2.0 | <2.0 | **44** |
| **Total Attachment C**[2,3] | ND | ND | ND | **75,000** |
| **Total Table 3+ (17 compounds)**[3,4] | ND | ND | ND | **76,000** |
| **Total Table 3+ (20 compounds)**[3] | ND | ND | ND | **77,000** |

**TABLE A5-1**
**GROUNDWATER ANALYTICAL RESULTS**
Chemours Fayetteville Works, North Carolina

| Water Bearing Unit[1] | Black Creek Aquifer | Floodplain Deposits | Floodplain Deposits | Black Creek Aquifer |
|---|---|---|---|---|
| Location ID | LTW-02 | LTW-03 | LTW-04 | LTW-05 |
| Field Sample ID | CAP0821-LTW-02-083121 | CAP0821-LTW-03-083121 | CAP0821-LTW-04-083021 | CAP0821-LTW-05-082621 |
| Sample Date | 8/31/2021 | 8/31/2021 | 8/30/2021 | 8/26/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-78497-1 | 320-78460-1 | 320-78460-1 | 320-78267-1 |
| Lab Sample ID | 320-78497-4 | 320-78460-5 | 320-78460-4 | 320-78267-3 |
| *Table 3+ SOP (ng/L)* | | | | |
| HFPO-DA | **6,500** | **9,300** | **20,000** | **15,000** |
| PFMOAA | **18,000** | **96,000** | **54,000** | **100,000** |
| PFO2HxA | **11,000** | **29,000** | **24,000** | **35,000** |
| PFO3OA | **2,200** | **4,500** | **4,600** | **9,700** |
| PFO4DA | **230** | **160** | **510** | **2,100** |
| PFO5DA | <78 | <78 | <78 | <78 |
| PMPA | **4,100** | **9,000** | **16,000** | **3,400** |
| PEPA | **1,300** | **2,400** | **6,200** | **400** |
| PS Acid | <20 | <20 | <20 | <20 |
| Hydro-PS Acid | **19** | **25** | **140** | **180** |
| R-PSDA | **380 J** | **530 J** | **1,600 J** | **430 J** |
| Hydrolyzed PSDA | **700 J** | **2,900 J** | **3,500 J** | **850 J** |
| R-PSDCA | <17 | <17 | <17 | **20** |
| NVHOS | **270** | **960** | **1,300** | **910** |
| EVE Acid | <17 | <17 | <17 | <17 |
| Hydro-EVE Acid | **41** | **33** | **490** | **700** |
| R-EVE | **230 J** | **280 J** | **1,500 J** | **470 J** |
| PES | <6.7 | <6.7 | <6.7 | **9** |
| PFECA B | <27 | <27 | <27 | <27 |
| PFECA-G | <48 | <48 | <48 | <48 |
| Perfluoroheptanoic Acid | **13** | **23** | **70** | **300** |
| **Total Attachment C[2,3]** | **43,000** | **150,000** | **130,000** | **170,000** |
| **Total Table 3+ (17 compounds)[3,4]** | **44,000** | **150,000** | **130,000** | **170,000** |
| **Total Table 3+ (20 compounds)[3]** | **45,000** | **160,000** | **130,000** | **170,000** |

**TABLE A5-1**
**GROUNDWATER ANALYTICAL RESULTS**
Chemours Fayetteville Works, North Carolina

| Water Bearing Unit[1] | Black Creek Aquifer | Floodplain Deposits | Black Creek Aquifer | Black Creek Aquifer |
|---|---|---|---|---|
| Location ID | PIW-1D | PIW-1S | PIW-3D | PIW-3D |
| Field Sample ID | CAP0821-PIW-1D-082621 | CAP0821-PIW-1S-082621 | CAP0821-PIW-3D-083121 | CAP0821-PIW-3D-083121-D |
| Sample Date | 8/26/2021 | 8/26/2021 | 8/31/2021 | 8/31/2021 |
| QA/QC | | | | Field Duplicate |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-78267-1 | 320-78267-1 | 320-78497-1 | 320-78497-1 |
| Lab Sample ID | 320-78267-1 | 320-78267-2 | 320-78497-1 | 320-78497-2 |
| ***Table 3+ SOP (ng/L)*** | | | | |
| HFPO-DA | **9,300** | **15,000** | **10,000** | **10,000** |
| PFMOAA | **10,000** | **1,500** | **3,300** | **3,600** |
| PFO2HxA | **8,700** | **8,800** | **7,400** | **8,100** |
| PFO3OA | **1,600** | **1,500** | **1,400** | **1,500** |
| PFO4DA | **280** | **370** | **660** | **620** |
| PFO5DA | <78 | **88** | **83** | **110** |
| PMPA | **7,800** | **10,000** | **7,600** | **8,300** |
| PEPA | **2,500** | **4,700** | **3,000** | **3,100** |
| PS Acid | <20 | <20 | <20 | <20 |
| Hydro-PS Acid | **54** | **150** | **120** | **130** |
| R-PSDA | **290 J** | **590 J** | **310 J** | **360 J** |
| Hydrolyzed PSDA | <38 | <38 | <38 | <38 |
| R-PSDCA | <17 | <17 | <17 | <17 |
| NVHOS | **170** | **78** | **100** | **100** |
| EVE Acid | <17 | <17 | <17 | <17 |
| Hydro-EVE Acid | **24** | **25** | **37** | **41** |
| R-EVE | **150 J** | **410 J** | **170 J** | **210 J** |
| PES | <6.7 | <6.7 | <6.7 | <6.7 |
| PFECA B | <27 | <27 | <27 | <27 |
| PFECA-G | <48 | <48 | <48 | <48 |
| Perfluoroheptanoic Acid | **15** | **25** | **29** | **27** |
| **Total Attachment C[2,3]** | **40,000** | **42,000** | **34,000** | **35,000** |
| **Total Table 3+ (17 compounds)[3,4]** | **40,000** | **42,000** | **34,000** | **36,000** |
| **Total Table 3+ (20 compounds)[3]** | **41,000** | **43,000** | **34,000** | **36,000** |

**TABLE A5-1**
**GROUNDWATER ANALYTICAL RESULTS**
Chemours Fayetteville Works, North Carolina

| Water Bearing Unit[1] | Black Creek Aquifer | Floodplain Deposits | Surficial Aquifer | Surficial Aquifer |
|---|---|---|---|---|
| Location ID | PIW-7D | PIW-7S | PW-04 | PW-06 |
| Field Sample ID | CAP0821-PIW-7D-083021 | CAP0821-PIW-7S-083021 | CAP0821-PW-04-082521 | CAP0821-PW-06-081321 |
| Sample Date | 8/30/2021 | 8/30/2021 | 8/25/2021 | 8/13/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-78460-1 | 320-78460-1 | 320-78267-1 | 320-77906-1 |
| Lab Sample ID | 320-78460-1 | 320-78460-2 | 320-78267-6 | 320-77906-3 |
| *Table 3+ SOP (ng/L)* | | | | |
| HFPO-DA | **12,000** | **9,600** | **300** | **1,600** |
| PFMOAA | **97,000** | **9,900** | **110** | **270** |
| PFO2HxA | **31,000** | **7,700** | **420** | **710** |
| PFO3OA | **4,600** | **2,800** | **120** | **100** |
| PFO4DA | **1,200** | **310** | **160** | **63** |
| PFO5DA | <78 | <78 | <78 | <78 |
| PMPA | **3,300** | **6,200** | <620 | **1,900** |
| PEPA | **550** | **2,700** | **150** | **400** |
| PS Acid | <20 | <20 | <20 | <20 |
| Hydro-PS Acid | **100** | **200** | **100** | **43** |
| R-PSDA | **370 J** | **650 J** | <71 | <71 |
| Hydrolyzed PSDA | **650 J** | **41 J** | <38 | <38 |
| R-PSDCA | <17 | <17 | <17 | <17 |
| NVHOS | **860** | **480** | **23** | <15 |
| EVE Acid | <17 | <17 | <17 | <17 |
| Hydro-EVE Acid | **320** | **310** | **14** | <14 |
| R-EVE | **470 J** | **720 J** | <72 | <72 |
| PES | <6.7 | <6.7 | <6.7 | <6.7 |
| PFECA B | <27 | <27 | <27 | <27 |
| PFECA-G | <48 | <48 | <48 | <48 |
| Perfluoroheptanoic Acid | **95** | **46** | **4.8** | **6.2** |
| **Total Attachment C[2,3]** | **150,000** | **39,000** | **1,400** | **5,100** |
| **Total Table 3+ (17 compounds)[3,4]** | **150,000** | **40,000** | **1,400** | **5,100** |
| **Total Table 3+ (20 compounds)[3]** | **150,000** | **42,000** | **1,400** | **5,100** |

**TABLE A5-1**
**GROUNDWATER ANALYTICAL RESULTS**
Chemours Fayetteville Works, North Carolina

| Water Bearing Unit[1] | Surficial Aquifer | Surficial Aquifer | Black Creek Aquifer | Black Creek Aquifer |
|---|---|---|---|---|
| Location ID | PW-07 | PW-07 | PW-09 | PW-09 |
| Field Sample ID | CAP0821-PW-07-082721 | CAP0821-PW-07-082721-Z | CAP0821-PW-09-081221 | CAP0821-PW-09-081221-Z |
| Sample Date | 8/27/2021 | 8/27/2021 | 8/12/2021 | 8/12/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-78279-1 | 320-78279-1 | 320-77906-1 | 320-77906-1 |
| Lab Sample ID | 320-78279-1 | 320-78279-2 | 320-77906-1 | 320-77906-2 |
| *Table 3+ SOP (ng/L)* | | | | |
| HFPO-DA | **790** | **740** | <81 | <81 |
| PFMOAA | <80 | **200** | <80 | <80 |
| PFO2HxA | **680** | **760** | <27 | <27 |
| PFO3OA | **71** | **97** | <39 | <39 |
| PFO4DA | <59 | **76** | <59 | <59 |
| PFO5DA | <78 | <78 | <78 | <78 |
| PMPA | **730** | **820** | **790** | <620 |
| PEPA | **290** | **310** | <20 | <20 |
| PS Acid | <20 | <20 | <20 | <20 |
| Hydro-PS Acid | **10** | <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 | <6.7 | <6.7 | <6.7 | <6.7 |
| PFECA B | <27 | <27 | <27 | <27 |
| PFECA-G | <48 | <48 | <48 | <48 |
| Perfluoroheptanoic Acid | **4.7** | **4.9** | <2.0 | <2.0 |
| **Total Attachment C[2,3]** | **2,600** | **3,000** | **790** | ND |
| **Total Table 3+ (17 compounds)[3,4]** | **2,600** | **3,000** | **790** | ND |
| **Total Table 3+ (20 compounds)[3]** | **2,600** | **3,000** | **790** | ND |

**TABLE A5-1**
**GROUNDWATER ANALYTICAL RESULTS**
Chemours Fayetteville Works, North Carolina

| Water Bearing Unit[1] | Black Creek Aquifer | Surficial Aquifer | Surficial Aquifer | Black Creek Aquifer |
|---|---|---|---|---|
| Location ID | PZ-22 | SMW-10 | SMW-11 | SMW-12 |
| Field Sample ID | CAP0821-PZ-22-083021 | CAP0821-SMW-10-082521 | CAP0821-SMW-11-081221 | CAP0821-SMW-12-082521 |
| Sample Date | 8/30/2021 | 8/25/2021 | 8/12/2021 | 8/25/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-78460-1 | 320-78267-1 | 320-77906-1 | 320-78267-1 |
| Lab Sample ID | 320-78460-3 | 320-78267-4 | 320-77906-5 | 320-78267-5 |
| *Table 3+ SOP (ng/L)* | | | | |
| HFPO-DA | **11,000** | <2.0 | **4,300** | **1,600** |
| PFMOAA | **120,000** | **18** | **3,900** | **3,400** |
| PFO2HxA | **35,000** | **3.9** | **2,900** | **1,500** |
| PFO3OA | **3,100** | <2.0 | **460** | **110** |
| PFO4DA | **170** | <2.0 | **250** | <59 |
| PFO5DA | <78 | <2.0 | <78 | <78 |
| PMPA | **3,400** | <10 | **3,200** | **1,900** |
| PEPA | **870** | <20 | **600** | **340** |
| PS Acid | <20 | <2.0 | <20 | <20 |
| Hydro-PS Acid | **15** | <2.0 | **71** | <6.1 |
| R-PSDA | **320 J** | <2.0 | **140 J** | **94 J** |
| Hydrolyzed PSDA | **500 J** | <2.0 | <38 | <38 |
| R-PSDCA | <17 | <2.0 | <17 | <17 |
| NVHOS | **950** | <2.0 | **110** | **87** |
| EVE Acid | <17 | <2.0 | <17 | <17 |
| Hydro-EVE Acid | **54** | <2.0 | **23** | <14 |
| R-EVE | **290 J** | <2.0 | <72 | <72 |
| PES | <6.7 | <2.0 | <6.7 | <6.7 |
| PFECA B | <27 | <2.0 | <27 | <27 |
| PFECA-G | <48 | <2.0 | <48 | <48 |
| Perfluoroheptanoic Acid | **21** | <2.0 | **15** | <2.0 |
| **Total Attachment C[2,3]** | **170,000** | **22** | **16,000** | **8,900** |
| **Total Table 3+ (17 compounds)[3,4]** | **170,000** | **22** | **16,000** | **8,900** |
| **Total Table 3+ (20 compounds)[3]** | **180,000** | **22** | **16,000** | **9,000** |

**TABLE A5-1**
**GROUNDWATER ANALYTICAL RESULTS**
Chemours Fayetteville Works, North Carolina

| Water Bearing Unit[1] | -- | -- | Floodplain Deposits | Black Creek Aquifer |
|---|---|---|---|---|
| Location ID | EB | EB | LTW-01 | LTW-02 |
| Field Sample ID | CAP0821-EQBLK-DV-081221 | CAP0821-EQBLK-PP-082521 | CAP0921-LTW-01-092821 | CAP0921-LTW-02-093021 |
| Sample Date | 8/12/2021 | 8/25/2021 | 9/28/2021 | 9/30/2021 |
| QA/QC | FB | Equipment Blank | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-77906-1 | 320-78279-1 | 320-79706-1 / 320-79706-2 | 320-79706-1 / 320-79706-2 |
| Lab Sample ID | 320-77906-4 | 320-78279-3 | 320-79706-6 | 320-79706-1 |
| ***Table 3+ SOP (ng/L)*** | | | | |
| HFPO-DA | <2.0 | <2.0 | **20,000** | **7,500** |
| PFMOAA | <2.0 | <2.0 | **27,000** | **21,000** |
| PFO2HxA | <2.0 | <2.0 | **22,000** | **12,000** |
| PFO3OA | <2.0 | <2.0 | **4,600** | **2,500** |
| PFO4DA | <2.0 | <2.0 | **830** | **210** |
| PFO5DA | <2.0 | <2.0 | **96** | <78 |
| PMPA | <10 | <10 | **16,000** | **4,600** |
| PEPA | <20 | <20 | **5,700** | **1,600** |
| PS Acid | <2.0 | <2.0 | <20 | <20 |
| Hydro-PS Acid | <2.0 | <2.0 | **170** | **21** |
| R-PSDA | <2.0 | <2.0 | **700 J** | **260 J** |
| Hydrolyzed PSDA | <2.0 | <2.0 | **410 J** | **620 J** |
| R-PSDCA | <2.0 | <2.0 | <17 | <17 |
| NVHOS | <2.0 | <2.0 | **340** | **260** |
| EVE Acid | <2.0 | <2.0 | <17 | <17 |
| Hydro-EVE Acid | <2.0 | <2.0 | **88** | **36** |
| R-EVE | <2.0 | <2.0 | **460 J** | **260 J** |
| PES | <2.0 | <2.0 | <6.7 | <6.7 |
| PFECA B | <2.0 | <2.0 | <27 | <27 |
| PFECA-G | <2.0 | <2.0 | <48 | <48 |
| Perfluoroheptanoic Acid | <2.0 | <2.0 | **38** | **11** |
| **Total Attachment C[2,3]** | ND | ND | **96,000** | **49,000** |
| **Total Table 3+ (17 compounds)[3,4]** | ND | ND | **97,000** | **50,000** |
| **Total Table 3+ (20 compounds)[3]** | ND | ND | **98,000** | **51,000** |

**TABLE A5-1**
**GROUNDWATER ANALYTICAL RESULTS**
Chemours Fayetteville Works, North Carolina

| Water Bearing Unit[1] | Floodplain Deposits | Floodplain Deposits | Black Creek Aquifer | Black Creek Aquifer |
|---|---|---|---|---|
| Location ID | LTW-03 | LTW-04 | LTW-05 | PIW-1D |
| Field Sample ID | CAP0921-LTW-03-092821 | CAP0921-LTW-04-092821 | CAP0921-LTW-05-092921 | CAP0921-PIW-1D-092021 |
| Sample Date | 9/28/2021 | 9/28/2021 | 9/29/2021 | 9/20/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | Liquid | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-79706-1 / 320-79706-2 | 320-79706-1 / 320-79706-2 | 320-79707-1 / 320-79707-2 | 320-79496-1 |
| Lab Sample ID | 320-79706-7 | 320-79706-4 | 320-79707-6 | 320-79496-2 |
| *Table 3+ SOP (ng/L)* | | | | |
| HFPO-DA | **11,000** | **19,000** | **15,000** | **19,000** |
| PFMOAA | **110,000** | **58,000** | **120,000** | **21,000** |
| PFO2HxA | **30,000** | **24,000** | **35,000** | **16,000** |
| PFO3OA | **5,000** | **4,400** | **10,000** | **2,800** |
| PFO4DA | **180** | **430** | **2,000** | **470** |
| PFO5DA | <78 | <78 | <78 | <78 |
| PMPA | **10,000** | **16,000** | **3,400** | **14,000** |
| PEPA | **2,500** | **6,000** | **480** | **4,500** |
| PS Acid | <20 | <20 | <20 | <20 |
| Hydro-PS Acid | **18** | **120** | **220** | **87** |
| R-PSDA | **530 J** | **1,500 J** | **450 J** | **440 J** |
| Hydrolyzed PSDA | **2,600 J** | **2,600 J** | **680 J** | **56 J** |
| R-PSDCA | <17 | <17 | **20** | <17 |
| NVHOS | **950** | **1,200** | **970** | **290** |
| EVE Acid | <17 | <17 | <17 | <17 |
| Hydro-EVE Acid | **41** | **370** | **810** | **41** |
| R-EVE | **330 J** | **1,400 J** | **500 J** | **260 J** |
| PES | <6.7 | <6.7 | **10** | <6.7 |
| PFECA B | <27 | <27 | <27 | <27 |
| PFECA-G | <48 | <48 | <48 | <48 |
| Perfluoroheptanoic Acid | **22** | **60** | **290** | **14** |
| **Total Attachment C[2,3]** | **170,000** | **130,000** | **190,000** | **78,000** |
| **Total Table 3+ (17 compounds)[3,4]** | **170,000** | **130,000** | **190,000** | **78,000** |
| **Total Table 3+ (20 compounds)[3]** | **170,000** | **140,000** | **190,000** | **79,000** |

**TABLE A5-1**
**GROUNDWATER ANALYTICAL RESULTS**
Chemours Fayetteville Works, North Carolina

| Water Bearing Unit[1] | Floodplain Deposits | Black Creek Aquifer | Black Creek Aquifer | Floodplain Deposits |
|---|---|---|---|---|
| Location ID | PIW-1S | PIW-3D | PIW-7D | PIW-7S |
| Field Sample ID | CAP0921-PIW-1S-092721 | CAP0921-PIW-3D-092921 | CAP0921-PIW-7D-092921 | CAP0921-PIW-7S-092921 |
| Sample Date | 9/27/2021 | 9/29/2021 | 9/29/2021 | 9/29/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-79707-1 / 320-79707-2 | 320-79707-1 / 320-79707-2 | 320-79707-1 / 320-79707-2 | 320-79707-1 / 320-79707-2 |
| Lab Sample ID | 320-79707-1 | 320-79707-7 | 320-79707-3 | 320-79707-2 |
| ***Table 3+ SOP (ng/L)*** | | | | |
| HFPO-DA | **12,000** | **11,000** | **11,000** | **10,000** |
| PFMOAA | **2,100** | **4,400** | **110,000** | **15,000** |
| PFO2HxA | **7,600** | **7,900** | **28,000** | **8,400** |
| PFO3OA | **1,200** | **1,500** | **3,900** | **2,600** |
| PFO4DA | **340** | **700** | **1,000** | **260** |
| PFO5DA | <78 | <78 | <78 | <78 |
| PMPA | **8,500** | **8,100** | **3,000** | **5,600** |
| PEPA | **3,800** | **3,100** | **520** | **2,000** |
| PS Acid | <20 | <20 | <20 | <20 |
| Hydro-PS Acid | **150** | **140** | **94** | **160** |
| R-PSDA | **510 J** | **390 J** | **260 J** | **650 J** |
| Hydrolyzed PSDA | <38 | <38 | **420 J** | **55 J** |
| R-PSDCA | <17 | <17 | <17 | <17 |
| NVHOS | **45** | **94** | **780** | **430** |
| EVE Acid | <17 | <17 | <17 | <17 |
| Hydro-EVE Acid | **29** | **38** | **300** | **230** |
| R-EVE | **360 J** | **180 J** | **370 J** | **760 J** |
| PES | <6.7 | <6.7 | **6.8** | <6.7 |
| PFECA B | <27 | <27 | <27 | <27 |
| PFECA-G | <48 | <48 | <48 | <48 |
| Perfluoroheptanoic Acid | **22 J** | **27** | **96** | **37** |
| **Total Attachment C[2,3]** | **36,000** | **37,000** | **160,000** | **44,000** |
| **Total Table 3+ (17 compounds)[3,4]** | **36,000** | **37,000** | **160,000** | **45,000** |
| **Total Table 3+ (20 compounds)[3]** | **37,000** | **38,000** | **160,000** | **46,000** |

**TABLE A5-1**
**GROUNDWATER ANALYTICAL RESULTS**
Chemours Fayetteville Works, North Carolina

| Water Bearing Unit[1] | Surficial Aquifer | Surficial Aquifer | Surficial Aquifer | Black Creek Aquifer |
|---|---|---|---|---|
| Location ID | PW-04 | PW-06 | PW-07 | PW-09 |
| Field Sample ID | CAP0921-PW-04-092821 | CAP0921-PW-06-092021 | CAP0921-PW-07-092821 | CAP0921-PW-09-092921 |
| Sample Date | 9/28/2021 | 9/20/2021 | 9/28/2021 | 9/29/2021 |
| QA/QC | | | | |
| Sample Matrix | Liquid | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-79706-1 / 320-79706-2 | 320-79496-1 | 320-79706-1 / 320-79706-2 | 320-79707-1 / 320-79707-2 |
| Lab Sample ID | 320-79706-3 | 320-79496-1 | 320-79706-5 | 320-79707-4 |
| ***Table 3+ SOP (ng/L)*** | | | | |
| HFPO-DA | **530** | **2,900** | **800** | <81 |
| PFMOAA | **120** | **400** | **250** | <80 |
| PFO2HxA | **520** | **1,500** | **730** | <27 |
| PFO3OA | **180** | **260** | **110** | <39 |
| PFO4DA | **120** | **110** | **79** | <59 |
| PFO5DA | <78 | <78 | <78 | <78 |
| PMPA | <620 | **2,300** | **860** | <620 |
| PEPA | **270** | **810** | **290** | <20 |
| PS Acid | <20 | <20 | <20 | <20 |
| Hydro-PS Acid | **73** | **70** | **13** | <6.1 |
| R-PSDA | <71 | **95 J** | <71 | <71 |
| Hydrolyzed PSDA | <38 | <38 | <38 | <38 |
| R-PSDCA | <17 | <17 | <17 | <17 |
| NVHOS | <15 | **66** | <15 | <15 |
| EVE Acid | <17 | <17 | <17 | <17 |
| Hydro-EVE Acid | <14 | <14 | <14 | <14 |
| R-EVE | <72 | <72 | <72 | <72 |
| PES | <6.7 | <6.7 | <6.7 | <6.7 |
| PFECA B | <27 | <27 | <27 | <27 |
| PFECA-G | <48 | <48 | <48 | <48 |
| Perfluoroheptanoic Acid | **4.1** | **5.9** | **4.7** | <2.0 |
| **Total Attachment C[2,3]** | **1,800** | **8,400** | **3,100** | ND |
| **Total Table 3+ (17 compounds)[3,4]** | **1,800** | **8,400** | **3,100** | ND |
| **Total Table 3+ (20 compounds)[3]** | **1,800** | **8,500** | **3,100** | ND |

**TABLE A5-1**
**GROUNDWATER ANALYTICAL RESULTS**
Chemours Fayetteville Works, North Carolina

| Water Bearing Unit[1] | Black Creek Aquifer | Black Creek Aquifer | Surficial Aquifer | Surficial Aquifer |
|---|---|---|---|---|
| **Location ID** | **PW-09** | **PZ-22** | **SMW-10** | **SMW-11** |
| **Field Sample ID** | **CAP0921-PW-09-092921-Z** | **CAP0921-PZ-22-092921** | **CAP0921-SMW-10-092221** | **CAP0921-SMW-11-092221** |
| **Sample Date** | **9/29/2021** | **9/29/2021** | **9/22/2021** | **9/22/2021** |
| **QA/QC** | | | | |
| **Sample Matrix** | **LIQUID** | **LIQUID** | **LIQUID** | **LIQUID** |
| **Sample Delivery Group (SDG)** | **320-79707-1 / 320-79707-2** | **320-79706-1 / 320-79706-2** | **320-79496-1** | **320-79503-1** |
| **Lab Sample ID** | **320-79707-5** | **320-79706-2** | **320-79496-3** | **320-79503-1** |
| ***Table 3+ SOP (ng/L)*** | | | | |
| HFPO-DA | <81 | **9,800** | <2.0 | **5,700** |
| PFMOAA | <80 | **120,000** | **64** | **5,100** |
| PFO2HxA | <27 | **33,000** | **4.4** | **4,100** |
| PFO3OA | <39 | **2,900** | <2.0 | **660** |
| PFO4DA | <59 | **140** | <2.0 | **300** |
| PFO5DA | <78 | <78 | <2.0 | <78 |
| PMPA | <620 | **3,500** | **13** | **3,200** |
| PEPA | <20 | **880** | <20 | **940** |
| PS Acid | <20 | <20 | <2.0 | <20 |
| Hydro-PS Acid | <6.1 | **18** | <2.0 | **110** |
| R-PSDA | <71 | **270 J** | <2.0 | **150 J** |
| Hydrolyzed PSDA | <38 | **410 J** | **4.3 J** | <38 |
| R-PSDCA | <17 | <17 | <2.0 | <17 |
| NVHOS | <15 | **940** | <2.0 | **140** |
| EVE Acid | <17 | <17 | <2.0 | <17 |
| Hydro-EVE Acid | <14 | **44** | <2.0 | <14 |
| R-EVE | <72 | **300 J** | <2.0 | **100 J** |
| PES | <6.7 | <6.7 | <2.0 | <6.7 |
| PFECA B | <27 | <27 | <2.0 | <27 |
| PFECA-G | <48 | <48 | <2.0 | <48 |
| Perfluoroheptanoic Acid | <2.0 | **19** | <2.0 | **11** |
| **Total Attachment C[2,3]** | ND | **170,000** | **81** | **20,000** |
| **Total Table 3+ (17 compounds)[3,4]** | ND | **170,000** | **81** | **20,000** |
| **Total Table 3+ (20 compounds)[3]** | ND | **170,000** | **86** | **21,000** |

**TABLE A5-1**
**GROUNDWATER ANALYTICAL RESULTS**
Chemours Fayetteville Works, North Carolina

| Water Bearing Unit[1] | Surficial Aquifer | Black Creek Aquifer | -- |
|---|---|---|---|
| Location ID | SMW-11 | SMW-12 | EB |
| Field Sample ID | CAP0921-SMW-11-092221-D | CAP0921-SMW-12-092221 | CAP0921-EQBLK-DV-092221 |
| Sample Date | 9/22/2021 | 9/22/2021 | 9/22/2021 |
| QA/QC | Field Duplicate | | Equipment Blank |
| Sample Matrix | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-79503-1 | 320-79496-1 | 320-79496-1 |
| Lab Sample ID | 320-79503-2 | 320-79496-4 | 320-79496-5 |
| *Table 3+ SOP (ng/L)* | | | |
| HFPO-DA | **5,200** | **3,100** | <2.0 |
| PFMOAA | **5,000** | **7,600** | <2.0 |
| PFO2HxA | **4,000** | **2,900** | <2.0 |
| PFO3OA | **680** | **190** | <2.0 |
| PFO4DA | **290** | <59 | <2.0 |
| PFO5DA | <78 | <78 | <2.0 |
| PMPA | **3,200** | **3,700** | <10 |
| PEPA | **910** | **710** | <20 |
| PS Acid | <20 | <20 | <2.0 |
| Hydro-PS Acid | **96** | <6.1 | <2.0 |
| R-PSDA | **160 J** | **150 J** | <2.0 |
| Hydrolyzed PSDA | <38 | <38 | <2.0 |
| R-PSDCA | <17 | <17 | <2.0 |
| NVHOS | **140** | **110** | <2.0 |
| EVE Acid | <17 | <17 | <2.0 |
| Hydro-EVE Acid | <14 | <14 | <2.0 |
| R-EVE | **120 J** | **120 J** | <2.0 |
| PES | <6.7 | <6.7 | <2.0 |
| PFECA B | <27 | <27 | <2.0 |
| PFECA-G | <48 | <48 | <2.0 |
| Perfluoroheptanoic Acid | **11** | <2.0 | <2.0 |
| **Total Attachment C[2,3]** | **19,000** | **18,000** | ND |
| **Total Table 3+ (17 compounds)[3,4]** | **20,000** | **18,000** | ND |
| **Total Table 3+ (20 compounds)[3]** | **20,000** | **19,000** | ND |

# TABLE A5-1
## GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

| | | |
|---|---|---|
| **Water Bearing Unit[1]** | **--** | **--** |
| **Location ID** | **EB** | **EB** |
| **Field Sample ID** | **CAP0921-EQBLK-PP-092221** | **CAP0921-EQBLK-PP-092921-Z** |
| **Sample Date** | **9/22/2021** | **9/29/2021** |
| **QA/QC** | **Equipment Blank** | **Equipment Blank** |
| **Sample Matrix** | **LIQUID** | **LIQUID** |
| **Sample Delivery Group (SDG)** | **320-79503-1** | **320-79769-1** |
| **Lab Sample ID** | **320-79503-3** | **320-79769-1** |
| ***Table 3+ SOP (ng/L)*** | | |
| 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 |
| **Total Attachment C[2,3]** | ND | ND |
| **Total Table 3+ (17 compounds)[3,4]** | ND | ND |
| **Total Table 3+ (20 compounds)[3]** | 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.

< - 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 Perfluoroheptanoic acid (PFHpA), R-PSDA, Hydrolyzed PSDA, and R-EVE.

5 - PIW-10DR is not a CAP monitoring well. It was sampled in July 2021 as part of the Annual Groundwater Monitoring Event, concurrent to the July 2021 CAP Sampling Event. Analytical results for PIW-10DR were used to calculate the onsite groundwater mass loading for Segment 8, further described in Appendix E.

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | Floodplain Deposits | Black Creek Aquifer | Black Creek Aquifer | Floodplain Deposits |
|---|---|---|---|---|
| Location ID | LTW-01 | LTW-02 | LTW-02 | LTW-03 |
| Field Sample ID | CAP0721-LTW-01-072921 | CAP0721-LTW-02-072921 | CAP0721-LTW-02-072921-D | CAP0721-LTW-03-072621 |
| Sample Date | 7/29/2021 | 7/29/2021 | 7/29/2021 | 7/26/2021 |
| QA/QC | | | Field Duplicate | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-77180-1 | 320-77151-1 | 320-77151-1 | 320-77001-1 |
| Lab Sample ID | 320-77180-8 | 320-77151-1 | 320-77151-2 | 320-77001-2 |
| **537 Mod (ng/L)** | | | | |
| Perfluorobutanoic Acid | **150** | **56** | **58** | **150** |
| 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 | **24** | **7.4** | **7.5** | **15** |
| Perfluorononanoic Acid | **2.1** | <2.0 | <2.0 | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | **380** | **210** | **210** | **750** |
| 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 | **43** | <2.0 | <2.0 | <2.0 |

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | Floodplain Deposits | Floodplain Deposits | Black Creek Aquifer | Black Creek Aquifer |
|---|---|---|---|---|
| Location ID | LTW-04 | LTW-04 | LTW-05 | PIW-1D |
| Field Sample ID | CAP0721-LTW-04-073021 | CAP0721-LTW-04-073021-D | CAP0721-LTW-05-073021 | CAP0721-PIW-1D-071621 |
| Sample Date | 7/30/2021 | 7/30/2021 | 7/30/2021 | 7/16/2021 |
| QA/QC | | Field Duplicate | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-77151-1 | 320-77151-1 | 320-77178-1 | 320-76583-1 |
| Lab Sample ID | 320-77151-3 | 320-77151-4 | 320-77178-2 | 320-76583-4 |
| **537 Mod (ng/L)** | | | | |
| Perfluorobutanoic Acid | **470** | **470** | **200** | **72** |
| 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 | **39** | **37** | **51** | **9.6** |
| Perfluorononanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | **1,500** | **1,500** | **1,600** | **150** |
| 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 | **8.2** | **7.0** | **3.2** | **7.3** |

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | Floodplain Deposits | Black Creek Aquifer | Black Creek Aquifer | Floodplain Deposits |
|---|---|---|---|---|
| Location ID | PIW-1S | PIW-3D | PIW-7D | PIW-7S |
| Field Sample ID | CAP0721-PIW-1S-071421 | CAP0721-PIW-3D-072321 | CAP0721-PIW-7D-071621 | CAP0721-PIW-7S-071621 |
| Sample Date | 7/14/2021 | 7/23/2021 | 7/16/2021 | 7/16/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-76320-1 | 320-77006-1 | 320-76574-1 | 320-76574-1 |
| Lab Sample ID | 320-76320-4 | 320-77006-4 | 320-76574-1 | 320-76574-2 |
| **537 Mod (ng/L)** | | | | |
| Perfluorobutanoic Acid | **65** | **68** | **150** | **150** |
| Perfluorodecanoic Acid | **3.3** | <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 | **13** | **16** | **23** | **22** |
| Perfluorononanoic Acid | **9.0** | **4.2** | <2.0 | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | **110** | **130** | **1,200** | **460** |
| 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 | **29** | **32** | **3.2** | **14** |

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | Surficial Aquifer | Surficial Aquifer | Surficial Aquifer | Black Creek Aquifer |
|---|---|---|---|---|
| Location ID | PW-04 | PW-06 | PW-07 | PW-09 |
| Field Sample ID | CAP0721-PW-04-072221 | CAP0721-PW-06-073021 | CAP0721-PW-07-072121 | CAP0721-PW-09-070921 |
| Sample Date | 7/22/2021 | 7/30/2021 | 7/21/2021 | 7/9/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-76696-1 | 320-77164-1 | 320-76701-1 | 320-76194-1 |
| Lab Sample ID | 320-76696-2 | 320-77164-7 | 320-76701-4 | 320-76194-2 |
| **537 Mod (ng/L)** | | | | |
| Perfluorobutanoic Acid | **5.7** | **13** | **25** | <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 | **4.2** | **3.2** | <2.0 |
| Perfluorononanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | **6** | **18** | **17** | <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 | **5.1** | **8.2** | **3.5** | <2.0 |

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | Black Creek Aquifer | Black Creek Aquifer | Black Creek Aquifer | Surficial Aquifer |
|---|---|---|---|---|
| Location ID | PW-09 | PW-11 | PZ-22 | SMW-10 |
| Field Sample ID | CAP0721-PW-09-070921-Z | CAP0721-PW-11-072321 | CAP0721-PZ-22-072321 | CAP0721-SMW-10-073021 |
| Sample Date | 7/9/2021 | 7/23/2021 | 7/23/2021 | 7/30/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-76194-1 | 320-77006-1 | 320-77006-1 | 320-77151-1 |
| Lab Sample ID | 320-76194-3 | 320-77006-1 | 320-77006-7 | 320-77151-5 |
| **537 Mod (ng/L)** | | | | |
| Perfluorobutanoic Acid | <5.0 | **150** | **120** | <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 | **27** | **13** | <2.0 |
| Perfluorononanoic Acid | <2.0 | **5.6** | <2.0 | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | <2.0 | **980** | **920** | <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 | **22** | <2.0 | <2.0 |

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | Surficial Aquifer | Black Creek Aquifer | Black Creek Aquifer | |
|---|---|---|---|---|
| Location ID | SMW-11 | SMW-12 | SMW-12 | EB |
| Field Sample ID | CAP0621-SMW-11-070921 | CAP0721-SMW-12-070721 | CAP0721-SMW-12-070721-D | CAP0721-EQBLK-DV-070721 |
| Sample Date | 7/9/2021 | 7/7/2021 | 7/7/2021 | 7/7/2021 |
| QA/QC | | | Field Duplicate | Equipment Blank |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-76176-1 | 320-76201-1 | 320-76201-1 | 320-76205-1 |
| Lab Sample ID | 320-76176-6 | 320-76201-1 | 320-76201-2 | 320-76205-5 |
| **537 Mod (ng/L)** | | | | |
| Perfluorobutanoic Acid | **24** | **18** | **18** | <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 | **11** | **2.2** | **2.3** | <2.0 |
| Perfluorononanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | **38** | **52** | **52** | <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 | **71** | <2.0 | <2.0 | <2.0 |

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | | | | |
|---|---|---|---|---|
| **Location ID** | **EB** | **EB** | **EB** | **EB** |
| **Field Sample ID** | **CAP0721-EQBLK-PP-070721** | **CAP0621-EQBLK-DV-071221** | **CAP0621-EQBLK-PP-071221** | **CAP0621-EQBLK-PP-071221-Z** |
| **Sample Date** | **7/7/2021** | **7/12/2021** | **7/12/2021** | **7/12/2021** |
| **QA/QC** | **Equipment Blank** | **Equipment Blank** | **Equipment Blank** | **Equipment Blank** |
| **Sample Matrix** | **LIQUID** | **LIQUID** | **LIQUID** | **LIQUID** |
| **Sample Delivery Group (SDG)** | **320-76205-1** | **320-76207-1** | **320-76207-1** | **320-76207-1** |
| **Lab Sample ID** | **320-76205-4** | **320-76207-4** | **320-76207-5** | **320-76207-6** |
| **537 Mod (ng/L)** | | | | |
| Perfluorobutanoic Acid | <5.0 | <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 | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluorononanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | <2.0 | <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 | <2.0 | <2.0 | <2.0 | <2.0 |

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | | | | |
|---|---|---|---|---|
| **Location ID** | **EB** | **EB** | **EB** | **EB** |
| **Field Sample ID** | **CAP0721-EQBLK-PP-071421** | **CAP0721-EQBLK-PP-071921** | **CAP0721-EQBLK-PP-072221** | **CAP0721-EQBLK-PP-072821-2** |
| **Sample Date** | **7/14/2021** | **7/19/2021** | **7/22/2021** | **7/28/2021** |
| **QA/QC** | **Equipment Blank** | **Equipment Blank** | **Equipment Blank** | **Equipment Blank** |
| **Sample Matrix** | **LIQUID** | **LIQUID** | **LIQUID** | **LIQUID** |
| **Sample Delivery Group (SDG)** | **320-76392-1** | **320-76585-1** | **320-76696-1** | **320-77001-1** |
| **Lab Sample ID** | **320-76392-3** | **320-76585-3** | **320-76696-4** | **320-77001-7** |
| **537 Mod (ng/L)** | | | | |
| Perfluorobutanoic Acid | <5.0 | <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 | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluorononanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | <2.0 | <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 | <2.0 | <2.0 | <2.0 | <2.0 |

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | | | Floodplain Deposits | Black Creek Aquifer |
|---|---|---|---|---|
| Location ID | EB | EB | LTW-01 | LTW-02 |
| Field Sample ID | CAP0721-EQBLK-PP-072921 | CAP0721-EQBLK-PP-073021 | CAP0821-LTW-01-083121 | CAP0821-LTW-02-083121 |
| Sample Date | 7/29/2021 | 7/30/2021 | 8/31/2021 | 8/31/2021 |
| QA/QC | Equipment Blank | Equipment Blank | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-77180-1 | 320-77178-1 | 320-78497-1 | 320-78497-1 |
| Lab Sample ID | 320-77180-7 | 320-77178-3 | 320-78497-3 | 320-78497-4 |
| **537 Mod (ng/L)** | | | | |
| Perfluorobutanoic Acid | <5.0 | <5.0 | **120** | **52** |
| 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 | **22** | **7.3** |
| Perfluorononanoic Acid | <2.0 | <2.0 | **2.6** | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | <2.0 | <2.0 | **290** | **230** |
| 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 | **46** | <2.0 |

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | Floodplain Deposits | Floodplain Deposits | Black Creek Aquifer | Black Creek Aquifer |
|---|---|---|---|---|
| Location ID | LTW-03 | LTW-04 | LTW-05 | PIW-1D |
| Field Sample ID | CAP0821-LTW-03-083121 | CAP0821-LTW-04-083021 | CAP0821-LTW-05-082621 | CAP0821-PIW-1D-082621 |
| Sample Date | 8/31/2021 | 8/30/2021 | 8/26/2021 | 8/26/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-78460-1 | 320-78460-1 | 320-78267-1 | 320-78267-1 |
| Lab Sample ID | 320-78460-5 | 320-78460-4 | 320-78267-3 | 320-78267-1 |
| **537 Mod (ng/L)** | | | | |
| Perfluorobutanoic Acid | **130** | **400** | **170** | **59** |
| 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 | **13** | **37** | **46** | **9.3** |
| Perfluorononanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | **700** | **1,500** | **1,400** | **130** |
| 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 | **8.3** | **3.1** | **7.2** |

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | Floodplain Deposits | Black Creek Aquifer | Black Creek Aquifer | Black Creek Aquifer |
|---|---|---|---|---|
| Location ID | PIW-1S | PIW-3D | PIW-3D | PIW-7D |
| Field Sample ID | CAP0821-PIW-1S-082621 | CAP0821-PIW-3D-083121 | CAP0821-PIW-3D-083121-D | CAP0821-PIW-7D-083021 |
| Sample Date | 8/26/2021 | 8/31/2021 | 8/31/2021 | 8/30/2021 |
| QA/QC | | | Field Duplicate | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-78267-1 | 320-78497-1 | 320-78497-1 | 320-78460-1 |
| Lab Sample ID | 320-78267-2 | 320-78497-1 | 320-78497-2 | 320-78460-1 |
| **537 Mod (ng/L)** | | | | |
| Perfluorobutanoic Acid | **87** | **62** | **59** | **150** |
| Perfluorodecanoic Acid | **3.1** | <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 | **15** | **15** | **14** | **23** |
| Perfluorononanoic Acid | **7.5** | **5.0** | **4.9** | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | **160** | **130** | **120** | **1,100** |
| 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 | **35** | **35** | **33** | **3.1** |

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | Floodplain Deposits | Surficial Aquifer | Surficial Aquifer | Surficial Aquifer |
|---|---|---|---|---|
| Location ID | PIW-7S | PW-04 | PW-06 | PW-07 |
| Field Sample ID | CAP0821-PIW-7S-083021 | CAP0821-PW-04-082521 | CAP0821-PW-06-081321 | CAP0821-PW-07-082721 |
| Sample Date | 8/30/2021 | 8/25/2021 | 8/13/2021 | 8/27/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-78460-1 | 320-78267-1 | 320-77906-1 | 320-78279-1 |
| Lab Sample ID | 320-78460-2 | 320-78267-6 | 320-77906-3 | 320-78279-1 |
| **537 Mod (ng/L)** | | | | |
| Perfluorobutanoic Acid | **110** | **6.4** | **13** | **24** |
| 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 | **18** | <2.0 | **4.4** | **2.7** |
| Perfluorononanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | **440** | **6.4** | **17** | **16** |
| 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 | **12** | **5.2** | **8.4** | **4.0** |

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | Surficial Aquifer | Black Creek Aquifer | Black Creek Aquifer | Black Creek Aquifer |
|---|---|---|---|---|
| Location ID | PW-07 | PW-09 | PW-09 | PZ-22 |
| Field Sample ID | CAP0821-PW-07-082721-Z | CAP0821-PW-09-081221 | CAP0821-PW-09-081221-Z | CAP0821-PZ-22-083021 |
| Sample Date | 8/27/2021 | 8/12/2021 | 8/12/2021 | 8/30/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-78279-1 | 320-77906-1 | 320-77906-1 | 320-78460-1 |
| Lab Sample ID | 320-78279-2 | 320-77906-1 | 320-77906-2 | 320-78460-3 |
| **537 Mod (ng/L)** | | | | |
| Perfluorobutanoic Acid | **24** | <5.0 | <5.0 | **120** |
| 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 | **2.7** | <2.0 | <2.0 | **14** |
| Perfluorononanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | **16** | <2.0 | <2.0 | **980** |
| 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 | **2.7** | <2.0 | <2.0 | <2.0 |

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | Surficial Aquifer | Surficial Aquifer | Black Creek Aquifer | |
|---|---|---|---|---|
| Location ID | SMW-10 | SMW-11 | SMW-12 | EB |
| Field Sample ID | CAP0821-SMW-10-082521 | CAP0821-SMW-11-081221 | CAP0821-SMW-12-082521 | CAP0821-EQBLK-DV-081221 |
| Sample Date | 8/25/2021 | 8/12/2021 | 8/25/2021 | 8/12/2021 |
| QA/QC | | | | Equipment Blank |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-78267-1 | 320-77906-1 | 320-78267-1 | 320-77906-1 |
| Lab Sample ID | 320-78267-4 | 320-77906-5 | 320-78267-5 | 320-77906-4 |
| **537 Mod (ng/L)** | | | | |
| Perfluorobutanoic Acid | <5.0 | **25** | **17** | <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 | **11** | <2.0 | <2.0 |
| Perfluorononanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | <2.0 | **39** | **47** | <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 | **77** | <2.0 | <2.0 |

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | | Floodplain Deposits | Black Creek Aquifer | Floodplain Deposits |
|---|---|---|---|---|
| Location ID | EB | LTW-01 | LTW-02 | LTW-03 |
| Field Sample ID | CAP0821-EQBLK-PP-082521 | CAP0921-LTW-01-092821 | CAP0921-LTW-02-093021 | CAP0921-LTW-03-092821 |
| Sample Date | 8/25/2021 | 9/28/2021 | 9/30/2021 | 9/28/2021 |
| QA/QC | Equipment Blank | | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-78279-1 | 320-79706-2 | 320-79706-2 | 320-79706-2 |
| Lab Sample ID | 320-78279-3 | 320-79706-6 | 320-79706-1 | 320-79706-7 |
| **537 Mod (ng/L)** | | | | |
| Perfluorobutanoic Acid | <5.0 | **150** | **58** | **140** |
| 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 | **22** | **8.0** | **15** |
| Perfluorononanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | <2.0 | **370** | **220** | **700** |
| 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 | **29** | <2.0 | <2.0 |

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | Floodplain Deposits | Black Creek Aquifer | Black Creek Aquifer | Floodplain Deposits |
|---|---|---|---|---|
| Location ID | LTW-04 | LTW-05 | PIW-1D | PIW-1S |
| Field Sample ID | CAP0921-LTW-04-092821 | CAP0921-LTW-05-092921 | CAP0921-PIW-1D-092021 | CAP0921-PIW-1S-092721 |
| Sample Date | 9/28/2021 | 9/29/2021 | 9/20/2021 | 9/27/2021 |
| QA/QC | | | | |
| Sample Matrix | Liquid | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-79706-2 | 320-79707-2 | 320-79496-1 | 320-79707-2 |
| Lab Sample ID | 320-79706-4 | 320-79707-6 | 320-79496-2 | 320-79707-1 |
| **537 Mod (ng/L)** | | | | |
| Perfluorobutanoic Acid | **410** | **150** | **60** | **76 J** |
| Perfluorodecanoic Acid | <2.0 | <2.0 | <2.0 | **3.7 J** |
| Perfluorododecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| Perfluorohexadecanoic Acid (PFHxDA) | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| Perfluorohexanoic Acid | **36** | **46** | **9.8** | **14 J** |
| Perfluorononanoic Acid | <2.0 | <2.0 | <2.0 | **7.8 J** |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| Perfluoropentanoic Acid | **1,500** | **1,300** | **150** | **140 J** |
| Perfluorotetradecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| Perfluorotridecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| Perfluoroundecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 UJ |
| PFOA | **7.8** | **3.8** | **8.3** | **33 J** |

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | Black Creek Aquifer | Black Creek Aquifer | Floodplain Deposits | Surficial Aquifer |
|---|---|---|---|---|
| Location ID | PIW-3D | PIW-7D | PIW-7S | PW-04 |
| Field Sample ID | CAP0921-PIW-3D-092921 | CAP0921-PIW-7D-092921 | CAP0921-PIW-7S-092921 | CAP0921-PW-04-092821 |
| Sample Date | 9/29/2021 | 9/29/2021 | 9/29/2021 | 9/28/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | Liquid |
| Sample Delivery Group (SDG) | 320-79707-2 | 320-79707-2 | 320-79707-2 | 320-79706-2 |
| Lab Sample ID | 320-79707-7 | 320-79707-3 | 320-79707-2 | 320-79706-3 |
| **537 Mod (ng/L)** | | | | |
| Perfluorobutanoic Acid | **65** | **140** | **110** | **5.4** |
| 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 | **18** | **23** | **19** | <2.0 |
| Perfluorononanoic Acid | **4.8** | <2.0 | <2.0 | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | **130** | **1,100** | **490** | **7.1** |
| 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 | **36** | **3.4** | **8.8** | **3.6** |

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | Surficial Aquifer | Black Creek Aquifer | Surficial Aquifer | Black Creek Aquifer |
|---|---|---|---|---|
| Location ID | PW-06 | PW-09 | PW-07 | PW-09 |
| Field Sample ID | CAP0921-PW-06-092021 | CAP0921-PW-09-092921 | CAP0921-PW-07-092821 | CAP0921-PW-09-092921 |
| Sample Date | 9/20/2021 | 9/29/2021 | 9/28/2021 | 9/29/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-79496-1 | 320-79707-2 | 320-79706-2 | 320-79707-2 |
| Lab Sample ID | 320-79496-1 | 320-79707-4 | 320-79706-5 | 320-79707-4 |
| **537 Mod (ng/L)** | | | | |
| Perfluorobutanoic Acid | **11** | <5.0 | **24** | <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 | **3.9** | <2.0 | **3** | <2.0 |
| Perfluorononanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | **17** | <2.0 | **17** | <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 | **8.8** | <2.0 | **3.8** | <2.0 |

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | Black Creek Aquifer | Black Creek Aquifer | Surficial Aquifer | Surficial Aquifer |
|---|---|---|---|---|
| Location ID | PW-09 | PZ-22 | SMW-10 | SMW-11 |
| Field Sample ID | CAP0921-PW-09-092921-Z | CAP0921-PZ-22-092921 | CAP0921-SMW-10-092221 | CAP0921-SMW-11-092221 |
| Sample Date | 9/29/2021 | 9/29/2021 | 9/22/2021 | 9/22/2021 |
| QA/QC | | | | |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-79707-2 | 320-79706-2 | 320-79496-1 | 320-79503-1 |
| Lab Sample ID | 320-79707-5 | 320-79706-2 | 320-79496-3 | 320-79503-1 |
| **537 Mod (ng/L)** | | | | |
| Perfluorobutanoic Acid | <5.0 | **120** | <5.0 | **20** |
| 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 | **14** | <2.0 | **8.3** |
| Perfluorononanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | <2.0 | **1,000** | <2.0 | **31** |
| 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 | **77** |

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | Surficial Aquifer | Black Creek Aquifer | |
|---|---|---|---|
| Location ID | SMW-11 | SMW-12 | EB |
| Field Sample ID | CAP0921-SMW-11-092221-D | CAP0921-SMW-12-092221 | CAP0921-EQBLK-DV-092221 |
| Sample Date | 9/22/2021 | 9/22/2021 | 9/22/2021 |
| QA/QC | Field Duplicate | | Equipment Blank |
| Sample Matrix | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-79503-1 | 320-79496-1 | 320-79496-1 |
| Lab Sample ID | 320-79503-2 | 320-79496-4 | 320-79496-5 |
| **537 Mod (ng/L)** | | | |
| Perfluorobutanoic Acid | **20** | **18** | <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 | **8.0** | <2.0 | <2.0 |
| Perfluorononanoic Acid | <2.0 | <2.0 | <2.0 |
| Perfluorooctadecanoic Acid | <2.0 | <2.0 | <2.0 |
| Perfluoropentanoic Acid | **31** | **50** | <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 | **76** | <2.0 | <2.0 |

**TABLE A5-2**
**GROUNDWATER OTHER PFAS ANALYTICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Water Bearing Unit[1] | | |
|---|---|---|
| **Location ID** | **EB** | **EB** |
| **Field Sample ID** | **CAP0921-EQBLK-PP-092221** | **CAP0921-EQBLK-PP-092921-Z** |
| **Sample Date** | **9/22/2021** | **9/29/2021** |
| **QA/QC** | **Equipment Blank** | **Equipment Blank** |
| **Sample Matrix** | **LIQUID** | **LIQUID** |
| **Sample Delivery Group (SDG)** | **320-79503-1** | **320-79769-1** |
| **Lab Sample ID** | **320-79503-3** | **320-79769-1** |
| **537 Mod (ng/L)** | | |
| 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 |
| 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

< - Analyte not detected above associated reporting limit.

**TABLE A6**
**GROUNDWATER ELEVATIONS - Q2 2021**
**Chemours Fayetteville Works, North Carolina**

| Area[1] | Water Bearing Unit[2] | Well ID | Gauging Date | Northing (ft, SPCS NAD83)[3] | Easting (ft, SPCS NAD83)[3] | Screened Interval (ft) | TOC Elevation (ft, NAVD 88)[4] | Depth to Water (ft from TOC) | Water Level (ft, NAVD88) |
|---|---|---|---|---|---|---|---|---|---|
| Onsite | Black Creek Aquifer | BCA-01 | 6-Jul-21 | 399779.96 | 2050662.48 | 91 - 101 | 146.25 | 59.27 | 86.98 |
| Onsite | Black Creek Aquifer | BCA-04 | 6-Jul-21 | 395877.665 | 2047823.03 | 94 - 104 | 150.31 | 26.42 | 123.89 |
| Onsite | Black Creek Aquifer | EW-1 | 6-Jul-21 | 399934.65 | 2051297.51 | 40-60 | 91.33 | 31.28 | 60.05 |
| Onsite | Black Creek Aquifer | EW-2 | 6-Jul-21 | 396164.48 | 2052232.61 | 40-65 | 77.25 | 31.96 | 45.29 |
| Onsite | Black Creek Aquifer | EW-3 | 6-Jul-21 | 395059.78 | 2052214.66 | 37-67 | 76.48 | 14.48 | 62 |
| Onsite | Black Creek Aquifer | EW-4 | 6-Jul-21 | 398581.51 | 2051805.58 | 53-73 | 80.64 | 30.2 | 50.44 |
| Onsite | Black Creek Aquifer | EW-5 | 6-Jul-21 | 397200.16 | 2052052.65 | 37-67 | 78.50 | 33.12 | 45.38 |
| Onsite | Surficial Aquifer | INSITU-01 | 6-Jul-21 | 401657.39 | 2046078.99 | 7.0-17.0 | 89.12 | 5.77 | 83.35 |
| Onsite | Surficial Aquifer | INSITU-02 | 6-Jul-21 | 401863.46 | 2049136.62 | 7.0-17.0 | 113.12 | DRY | -- |
| Onsite | Floodplain Deposits | LTW-01 | 6-Jul-21 | 399565.01 | 2052150.62 | 11.0-26.0 | 52.71 | 16.32 | 36.39 |
| Onsite | Black Creek Aquifer | LTW-02 | 6-Jul-21 | 398847.57 | 2052355.48 | 28.0-38.0 | 51.39 | 9.01 | 42.38 |
| Onsite | Floodplain Deposits | LTW-03 | 6-Jul-21 | 398114.45 | 2052558.35 | 15.0-30.0 | 51.75 | 12.59 | 39.16 |
| Onsite | Floodplain Deposits | LTW-04 | 6-Jul-21 | 397279.61 | 2052584.95 | 12.0-27.0 | 50.66 | 7.81 | 42.85 |
| Onsite | Black Creek Aquifer | LTW-05 | 6-Jul-21 | 396430.31 | 2052740.4 | 29.0-44.0 | 50.94 | 9.32 | 41.62 |
| Onsite | Surficial Aquifer | MW-17D | 6-Jul-21 | 398401.741 | 2047366.496 | 57 - 67 | 146.12 | 26.74 | 119.38 |
| Onsite | Surficial Aquifer | MW-18D | 6-Jul-21 | 400947.3 | 2046574.35 | 50 - 60 | 108.10 | 18.81 | 89.29 |
| Onsite | Surficial Aquifer | MW-19D | 6-Jul-21 | 401151.43 | 2048272.93 | 46 - 56 | 139.36 | 29.88 | 109.48 |
| Onsite | Surficial Aquifer | MW-20D | 6-Jul-21 | 400791.01 | 2048733.71 | 65 - 75 | 137.20 | 46.13 | 91.07 |
| Onsite | Surficial Aquifer | MW-21D | 6-Jul-21 | 399501.88 | 2047074.92 | 72 - 82 | 151.42 | 43.55 | 107.87 |
| Onsite | Perched Zone | MW-26 | 6-Jul-21 | 396265.18 | 2051484.67 | 5 - 10 | 147.70 | 11.8 | 135.9 |
| Onsite | Perched Zone | MW-27 | 6-Jul-21 | 396010.33 | 2051472 | 10 - 15 | 146.83 | 14.82 | 132.01 |
| Onsite | Perched Zone | MW-28 | 6-Jul-21 | 395719.79 | 2051165.93 | 9 - 14 | 144.70 | 14.12 | 130.58 |
| Onsite | Perched Zone | MW-31 | 6-Jul-21 | 396390.698 | 2049622.884 | 17-22 | 147.70 | 15.95 | 131.75 |
| Onsite | Perched Zone | MW-32 | 6-Jul-21 | 396359.577 | 2049651.789 | 13-18.5 | 147.11 | 14.94 | 132.17 |
| Onsite | Perched Zone | MW-33 | 6-Jul-21 | 396337.507 | 2049678.558 | 12-17 | 146.82 | 14.42 | 132.4 |
| Onsite | Perched Zone | MW-34 | 6-Jul-21 | 396352.902 | 2049619.086 | 17-22 | 147.97 | 15.91 | 132.06 |
| Onsite | Perched Zone | MW-35 | 6-Jul-21 | 396332.943 | 2049631.155 | 14-19 | 147.54 | 15.42 | 132.12 |
| Onsite | Perched Zone | MW-36 | 6-Jul-21 | 396320.088 | 2049651.174 | 12-17 | 147.89 | 15.68 | 132.21 |
| Onsite | Perched Zone | NAF-06 | 6-Jul-21 | 398808.81 | 2050913.93 | 2.75-12.75 | 145.43 | 11.57 | 133.86 |
| Onsite | Perched Zone | NAF-11A | 6-Jul-21 | 398907.08 | 2050999.77 | 2.5-7.5 | 139.74 | 5.87 | 133.87 |
| Onsite | Surficial Aquifer | NAF-11B | 6-Jul-21 | 398911.13 | 2050995.88 | 33.5-43.5 | 140.74 | 45.46 | 95.28 |
| Onsite | Black Creek Aquifer | OW-1 | 6-Jul-21 | 399930.53 | 2051287.87 | 40-50 | 95.01 | 34.48 | 60.53 |
| Onsite | Black Creek Aquifer | OW-10 | 6-Jul-21 | 399948.17 | 2051291.21 | 40-50 | 94.39 | 34.11 | 60.28 |
| Onsite | Black Creek Aquifer | OW-2 | 6-Jul-21 | 398572.28 | 2051801.62 | 63-73 | 84.37 | 34.21 | 50.16 |
| Onsite | Black Creek Aquifer | OW-3 | 6-Jul-21 | 398601.08 | 2051812.32 | 63-73 | 84.64 | 34.68 | 49.96 |
| Onsite | Black Creek Aquifer | OW-4 | 6-Jul-21 | 395049.16 | 2052210.81 | 47-57 | 80.85 | 18.84 | 62.01 |
| Onsite | Black Creek Aquifer | OW-5 | 6-Jul-21 | 395070.03 | 2052196.97 | 54-64 | 81.61 | 19.4 | 62.21 |
| Onsite | Black Creek Aquifer | OW-6 | 6-Jul-21 | 396168.41 | 2052223.54 | 50-60 | 80.53 | 37.72 | 42.81 |
| Onsite | Black Creek Aquifer | OW-7 | 6-Jul-21 | 397180.06 | 2052052.69 | 57-67 | 81.45 | 36.11 | 45.34 |
| Onsite | Black Creek Aquifer | OW-8 | 6-Jul-21 | 397202.33 | 2052041.98 | 57-67 | 82.30 | 37.73 | 44.57 |
| Onsite | Black Creek Aquifer | OW-9 | 6-Jul-21 | 395075.14 | 2052211.07 | 54-64 | 79.78 | 17.61 | 62.17 |
| Onsite | Black Creek Aquifer | PIW-10DR | 6-Jul-21 | 395093.99 | 2052297.3 | 53 - 58 | 75.91 | 13.78 | 62.13 |
| Onsite | Surficial Aquifer | PIW-10S | 6-Jul-21 | 395104.95 | 2052296.98 | 7 - 17 | 76.32 | 18.56 | 57.76 |

**TABLE A6**
**GROUNDWATER ELEVATIONS - Q2 2021**
**Chemours Fayetteville Works, North Carolina**

| Area[1] | Water Bearing Unit[2] | Well ID | Gauging Date | Northing (ft, SPCS NAD83)[3] | Easting (ft, SPCS NAD83)[3] | Screened Interval (ft) | TOC Elevation (ft, NAVD 88)[4] | Depth to Water (ft from TOC) | Water Level (ft, NAVD88) |
|---|---|---|---|---|---|---|---|---|---|
| Onsite | Black Creek Aquifer | PIW-11 | 6-Jul-21 | 401911.03 | 2050416.29 | 47-57 | 67.02 | 21.7 | 45.32 |
| Onsite | Black Creek Aquifer | PIW-12 | 6-Jul-21 | 401703.1 | 2051025.77 | 64-74 | 83.78 | 49.14 | 34.64 |
| Onsite | Black Creek Aquifer | PIW-13 | 6-Jul-21 | 401464.29 | 2051122.6 | 54-64 | 83.18 | 48.21 | 34.97 |
| Onsite | Black Creek Aquifer | PIW-14 | 6-Jul-21 | 401163.98 | 2051186.57 | 56-66 | 87.43 | 51.63 | 35.8 |
| Onsite | Black Creek Aquifer | PIW-15 | 6-Jul-21 | 400706.51 | 2051532.8 | 34-44 | 67.85 | 34.05 | 33.8 |
| Onsite | Black Creek Aquifer | PIW-16D | 6-Jul-21 | 396257.96 | 2046587.07 | 90-100 | 150.06 | 18.97 | 131.09 |
| Onsite | Surficial Aquifer | PIW-16S | 6-Jul-21 | 396267.84 | 2046586.09 | 35-45 | 149.74 | 15.1 | 134.64 |
| Onsite | Black Creek Aquifer | PIW-1D | 6-Jul-21 | 400548 | 2051801.28 | 24.5 - 29.5 | 52.16 | 18.51 | 33.65 |
| Onsite | Floodplain Deposits | PIW-1S | 6-Jul-21 | 400541.03 | 2051792.39 | 7.8 - 17.8 | 54.04 | 21.21 | 32.83 |
| Onsite | Black Creek Aquifer | PIW-2D | 6-Jul-21 | 399925.4 | 2051315.8 | 40 - 50 | 96.19 | 36.01 | 60.18 |
| Onsite | Black Creek Aquifer | PIW-3D | 6-Jul-21 | 399711.25 | 2052086.94 | 19 - 24 | 53.42 | 17.2 | 36.22 |
| Onsite | Black Creek Aquifer | PIW-4D | 6-Jul-21 | 398816.52 | 2052101.94 | 32.3 - 37.3 | 52.85 | 10.14 | 42.71 |
| Onsite | Surficial Aquifer | PIW-5S | 6-Jul-21 | 398519.7 | 2051950.49 | 9.8 - 19.8 | 75.02 | 13.81 | 61.21 |
| Onsite | Floodplain Deposits | PIW-6S | 6-Jul-21 | 398117.93 | 2052539.79 | 18 - 28 | 53.40 | 14.12 | 39.28 |
| Onsite | Black Creek Aquifer | PIW-7D | 6-Jul-21 | 396787.77 | 2052595.65 | 29 - 34 | 48.93 | 5.28 | 43.65 |
| Onsite | Floodplain Deposits | PIW-7S | 6-Jul-21 | 396786.97 | 2052589.1 | 7 - 17 | 47.97 | 5.15 | 42.82 |
| Onsite | Black Creek Aquifer | PIW-8D | 6-Jul-21 | 396403.37 | 2052682.1 | 35.5 - 40 | 48.66 | 7.01 | 41.65 |
| Onsite | Black Creek Aquifer | PIW-9D | 6-Jul-21 | 396155.84 | 2052250.84 | 40 - 45 | 79.64 | 37.48 | 42.16 |
| Onsite | Surficial Aquifer | PIW-9S | 6-Jul-21 | 396148.52 | 2052251.03 | 24.8 - 29.8 | 79.64 | 28.69 | 50.95 |
| Onsite | Perched Zone | PW-01 | 6-Jul-21 | 399064.799 | 2049654.303 | 11 - 21 | 149.55 | 14.88 | 134.67 |
| Onsite | Surficial Aquifer | PW-02 | 6-Jul-21 | 399779.064 | 2050649.466 | 50 - 60 | 146.43 | 54.67 | 91.76 |
| Onsite | Surficial Aquifer | PW-04 | 6-Jul-21 | 394659.549 | 2050940.657 | 17 - 27 | 97.75 | 25.72 | 72.03 |
| Onsite | Surficial Aquifer | PW-05 | 6-Jul-21 | 395873.1 | 2047812.929 | 65 - 75 | 150.34 | 26.97 | 123.37 |
| Onsite | Surficial Aquifer | PW-06 | 6-Jul-21 | 392868 | 2045288.765 | 19 - 29 | 147.69 | 19.07 | 128.62 |
| Onsite | Surficial Aquifer | PW-07 | 6-Jul-21 | 390847.706 | 2049258.256 | 28 - 38 | 148.16 | 36.61 | 111.55 |
| Onsite | Black Creek Aquifer | PW-09 | 6-Jul-21 | 402000.079 | 2048979.111 | 44 - 54 | 72.93 | 25.05 | 47.88 |
| Onsite | Black Creek Aquifer | PW-10R | 6-Jul-21 | 398516.115 | 2051936.585 | 57 - 67 | 75.90 | 26.75 | 49.15 |
| Onsite | Black Creek Aquifer | PW-11 | 6-Jul-21 | 394354.363 | 2052226.721 | 53 - 63 | 73.26 | 30.76 | 42.5 |
| Onsite | Black Creek Aquifer | PW-12 | 6-Jul-21 | 399500.447 | 2047063.51 | 109 - 119 | 150.61 | 56.44 | 94.17 |
| Onsite | Black Creek Aquifer | PW-15R | 6-Jul-21 | 398900.875 | 2051011.753 | 110 - 120 | 136.14 | 57.97 | 78.17 |
| Onsite | Perched Zone | PZ-11 | 6-Jul-21 | 398646.2549 | 2049820.937 | 15-20 | 151.03 | 10.2 | 140.83 |
| Onsite | Black Creek Aquifer | PZ-22 | 6-Jul-21 | 397271.94 | 2052585.34 | 42.5-47.5 | 50.70 | 7.1 | 43.6 |
| Onsite | Perched Zone | PZ-25R | 6-Jul-21 | 395971.54 | 2050748.23 | 6 to 16 | 147.51 | DRY | -- |
| Onsite | Perched Zone | PZ-27 | 6-Jul-21 | 395922.11 | 2050376.76 | 12 - 17 | 147.17 | 14.05 | 133.12 |
| Onsite | Perched Zone | PZ-29 | 6-Jul-21 | 396377.59 | 2049771.59 | 12 - 18 | 147.74 | 14.53 | 133.21 |
| Onsite | Perched Zone | PZ-31 | 6-Jul-21 | 396428.73 | 2049594.355 | 14 - 19 | 148.00 | 17.89 | 130.11 |
| Onsite | Perched Zone | PZ-32 | 6-Jul-21 | 396418.471 | 2049713.787 | 13 - 18 | 148.47 | 15.44 | 133.03 |
| Onsite | Perched Zone | PZ-33 | 6-Jul-21 | 396308.915 | 2049707.661 | 12.5-17.5 | 146.72 | 13.11 | 133.61 |
| Onsite | Perched Zone | PZ-34 | 6-Jul-21 | 396292.05 | 2049595.039 | 13.5-18.5 | 147.70 | 15.91 | 131.78 |
| Onsite | Perched Zone | PZ-36 | 6-Jul-21 | 396086.17 | 2051331.44 | 5 - 8.5 | 135.20 | 2.59 | 132.61 |
| Onsite | Perched Zone | PZ-37 | 6-Jul-21 | 396042.4 | 2051050.05 | 5 - 8 | 135.56 | 2.52 | 133.04 |
| Onsite | Perched Zone | PZ-38 | 6-Jul-21 | 395970.01 | 2050569.66 | 5 - 9 | 137.34 | 8.25 | 129.09 |
| Onsite | Perched Zone | PZ-39 | 6-Jul-21 | 395921.87 | 2050238.18 | 5 - 10 | 137.93 | 3.51 | 134.42 |

**TABLE A6**
**GROUNDWATER ELEVATIONS - Q2 2021**
**Chemours Fayetteville Works, North Carolina**

| Area[1] | Water Bearing Unit[2] | Well ID | Gauging Date | Northing (ft, SPCS NAD83)[3] | Easting (ft, SPCS NAD83)[3] | Screened Interval (ft) | TOC Elevation (ft, NAVD 88)[4] | Depth to Water (ft from TOC) | Water Level (ft, NAVD88) |
|---|---|---|---|---|---|---|---|---|---|
| Onsite | Perched Zone | PZ-40 | 6-Jul-21 | 395943.02 | 2050031.9 | 5 - 9 | 138.51 | 3.87 | 134.64 |
| Onsite | Perched Zone | PZ-41 | 6-Jul-21 | 395979.29 | 2050048.97 | 5 - 8.5 | 138.13 | 2.99 | 135.14 |
| Onsite | Perched Zone | PZ-42 | 6-Jul-21 | 395961.73 | 2050230.23 | 3 - 7 | 138.17 | 3.28 | 134.89 |
| Onsite | Perched Zone | PZ-43 | 6-Jul-21 | 396011.61 | 2050567.89 | 5 - 9 | 137.06 | 6.07 | 130.99 |
| Onsite | Perched Zone | PZ-44 | 6-Jul-21 | 396082.75 | 2051045.25 | 5 - 7 | 136.26 | 2.89 | 133.37 |
| Onsite | Perched Zone | PZ-45 | 6-Jul-21 | 396124.41 | 2051323.03 | 2 - 4 | 135.69 | 2.66 | 133.03 |
| Onsite | Surficial Aquifer | SMW-01 | 6-Jul-21 | 395297.97 | 2043688.29 | 5.0-15.0 | 150.58 | 12.57 | 138.01 |
| Onsite | Perched Zone | SMW-02 | 6-Jul-21 | 399982.23 | 2050655.91 | 5.0-20.0 | 144.59 | 13.39 | 131.2 |
| Onsite | Surficial Aquifer | SMW-02B | 6-Jul-21 | 399983.75 | 2050654.77 | 43.0-53.0 | 147.93 | 55.51 | 92.42 |
| Onsite | Perched Zone | SMW-03 | 6-Jul-21 | 399779.32 | 2049445.32 | 10.0-20.0 | 151.09 | DRY | -- |
| Onsite | Black Creek Aquifer | SMW-03B | 6-Jul-21 | 399785.752 | 2049421.539 | 72 - 82 | 150.43 | 54.93 | 95.5 |
| Onsite | Perched Zone | SMW-04A | 6-Jul-21 | 399668.71 | 2048387.57 | 19.5-34.5 | 148.09 | 37.08 | 111.01 |
| Onsite | Surficial Aquifer | SMW-04B | 6-Jul-21 | 399666.21 | 2048392.37 | 43.0-53.0 | 147.65 | 43.7 | 103.95 |
| Onsite | Surficial Aquifer | SMW-09 | 6-Jul-21 | 401076.889 | 2050017.409 | 52 - 62 | 141.43 | 54.13 | 87.3 |
| Onsite | Surficial Aquifer | SMW-10 | 6-Jul-21 | 402307.305 | 2047923.84 | 39 - 49 | 76.26 | 29.5 | 46.76 |
| Onsite | Surficial Aquifer | SMW-11 | 6-Jul-21 | 401996.154 | 2048975.382 | 13 - 23 | 71.95 | 12.88 | 59.07 |
| Onsite | Black Creek Aquifer | SMW-12 | 6-Jul-21 | 401314.202 | 2051007.222 | 88 - 98 | 118.22 | 83.46 | 34.76 |
| Onsite | Black Creek Aquifer | BCA-02 | 7-Jul-21 | 396242.02 | 2051062.07 | 92 - 102 | 148.37 | 72.87 | 75.5 |
| Onsite | Black Creek Aquifer | BCA-03R | 7-Jul-21 | 398582.23 | 2049522.22 | 88 - 98 | 150.82 | 48.24 | 102.58 |
| Onsite | Perched Zone | FTA-01 | 7-Jul-21 | 397906.09 | 2049370.01 | 12.0-22.0 | 149.60 | 15.97 | 133.63 |
| Onsite | Perched Zone | FTA-02 | 7-Jul-21 | 397784.99 | 2049203.29 | 11.5-22.0 | 149.30 | 17.4 | 131.9 |
| Onsite | Perched Zone | FTA-03 | 7-Jul-21 | 397766.23 | 2049310.46 | 12.0-22.0 | 150.10 | 17.31 | 132.79 |
| Onsite | Perched Zone | MW-11 | 7-Jul-21 | 396544.4 | 2049051.06 | 11.5-21.5 | 148.53 | 23.35 | 125.18 |
| Onsite | Perched Zone | MW-12S | 7-Jul-21 | 397262.9 | 2049269.37 | 17.5-22.5 | 151.08 | 19.95 | 131.13 |
| Onsite | Surficial Aquifer | MW-13D | 7-Jul-21 | 397119.015 | 2049821.123 | 57 - 67 | 148.65 | 48.55 | 100.1 |
| Onsite | Surficial Aquifer | MW-14D | 7-Jul-21 | 396974.485 | 2049074.561 | 62 - 72 | 149.73 | 38.58 | 111.15 |
| Onsite | Surficial Aquifer | MW-15DRR | 7-Jul-21 | 398580.71 | 2049511.75 | 52.5 - 62.5 | 150.92 | 46.4 | 104.52 |
| Onsite | Surficial Aquifer | MW-16D | 7-Jul-21 | 398493.703 | 2048402.838 | 72 - 82 | 148.41 | 33.77 | 114.64 |
| Onsite | Perched Zone | MW-1S | 7-Jul-21 | 397080.69 | 2049117.99 | 21.0-24.0 | 148.88 | 18.91 | 129.97 |
| Onsite | Surficial Aquifer | MW-22D | 7-Jul-21 | 398518.4 | 2048362.48 | 52 - 72 | 149.09 | 33.64 | 115.45 |
| Onsite | Perched Zone | MW-23 | 7-Jul-21 | 396237.61 | 2051063.25 | 9.5 -14.5 | 148.34 | 14.27 | 134.07 |
| Onsite | Perched Zone | MW-24 | 7-Jul-21 | 397303.94 | 2048767.69 | 18.8 - 23.8 | 150.31 | 22.03 | 128.28 |
| Onsite | Perched Zone | MW-25 | 7-Jul-21 | 396753.37 | 2050989.82 | 12 - 17 | 147.59 | 13.83 | 133.76 |
| Onsite | Perched Zone | MW-2S | 7-Jul-21 | 396934.7481 | 2049321.849 | 19.0-23.0 | 149.91 | Well decommissioned | -- |
| Onsite | Perched Zone | MW-30 | 7-Jul-21 | 397340.79 | 2050776.09 | 10 - 15 | 147.67 | 13.32 | 134.35 |
| Onsite | Perched Zone | MW-7S | 7-Jul-21 | 397444.5245 | 2049809.731 | NA | 147.47 | 10.34 | 137.13 |
| Onsite | Perched Zone | MW-8S | 7-Jul-21 | 397096.4767 | 2049867.768 | NA | 146.48 | DRY | -- |
| Onsite | Perched Zone | MW-9S | 7-Jul-21 | 396760.1617 | 2049734.296 | 17.5-22.5 | 154.39 | 21.07 | 133.32 |
| Onsite | Perched Zone | NAF-01 | 7-Jul-21 | 398348.58 | 2050339.68 | 5.0-15.0 | 148.65 | 8.82 | 139.83 |
| Onsite | Perched Zone | NAF-02 | 7-Jul-21 | 398660.16 | 2050634.55 | 5.0-15.0 | 149.28 | 9.71 | 139.57 |
| Onsite | Perched Zone | NAF-03 | 7-Jul-21 | 398578.63 | 2050743.04 | 5.0-15.0 | 149.41 | 9.85 | 139.56 |
| Onsite | Perched Zone | NAF-04 | 7-Jul-21 | 398445.89 | 2050713.13 | 5.0-15.0 | 146.77 | 7.98 | 138.79 |
| Onsite | Perched Zone | NAF-07 | 7-Jul-21 | 398898.69 | 2050618.12 | 5.5-15.5 | 149.03 | 9.61 | 139.42 |

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**GROUNDWATER ELEVATIONS - Q2 2021**
**Chemours Fayetteville Works, North Carolina**

| Area[1] | Water Bearing Unit[2] | Well ID | Gauging Date | Northing (ft, SPCS NAD83)[3] | Easting (ft, SPCS NAD83)[3] | Screened Interval (ft) | TOC Elevation (ft, NAVD 88)[4] | Depth to Water (ft from TOC) | Water Level (ft, NAVD88) |
|---|---|---|---|---|---|---|---|---|---|
| Onsite | Perched Zone | NAF-08A | 7-Jul-21 | 398098.22 | 2050886.93 | 5.0-15.0 | 147.74 | 8.85 | 138.89 |
| Onsite | Surficial Aquifer | NAF-08B | 7-Jul-21 | 398095.97 | 2050880.18 | 43.5-53.5 | 147.83 | 52.67 | 95.16 |
| Onsite | Perched Zone | NAF-09 | 7-Jul-21 | 397708.78 | 2050807.44 | 7.0-17.0 | 148.62 | 12.05 | 136.57 |
| Onsite | Perched Zone | NAF-10 | 7-Jul-21 | 397611.81 | 2050425.2 | 8.25-18.25 | 149.25 | 11.86 | 137.39 |
| Onsite | Perched Zone | NAF-12 | 7-Jul-21 | 398270.555 | 2050777.49 | 18 - 23 | 145.79 | 6.2 | 139.59 |
| Onsite | Surficial Aquifer | PW-03 | 7-Jul-21 | 397339.809 | 2050765.319 | 35 - 45 | 147.97 | 41.77 | 106.2 |
| Onsite | Black Creek Aquifer | PW-13 | 7-Jul-21 | 397584.263 | 2048029.184 | 120 - 130 | 149.36 | 29.8 | 119.56 |
| Onsite | Black Creek Aquifer | PW-14 | 7-Jul-21 | 397325.648 | 2050766.359 | 136 - 146 | 147.97 | 61.61 | 86.36 |
| Onsite | Perched Zone | PZ-12 | 7-Jul-21 | 399091.19 | 2048978.89 | 15.1-20.1 | 149.89 | 19.72 | 130.17 |
| Onsite | Perched Zone | PZ-13 | 7-Jul-21 | 397707.82 | 2050985.25 | 7.1-12.1 | 148.14 | 11.56 | 136.58 |
| Onsite | Perched Zone | PZ-14 | 7-Jul-21 | 397589.9185 | 2050618.271 | 9.0-14.0 | 148.38 | 10.39 | 137.99 |
| Onsite | Perched Zone | PZ-15 | 7-Jul-21 | 396806.39 | 2050107.5 | 10.2-15.2 | 147.76 | 12.94 | 134.82 |
| Onsite | Perched Zone | PZ-17 | 7-Jul-21 | 396614.815 | 2048872.689 | 21.1-26.1 | 150.08 | 28.21 | 121.87 |
| Onsite | Perched Zone | PZ-19R | 7-Jul-21 | 397998.663 | 2049919.516 | 16-21 | 150.05 | 13.03 | 137.02 |
| Onsite | Perched Zone | PZ-20R | 7-Jul-21 | 398185.809 | 2049784.598 | 15-20 | 151.29 | 14.45 | 136.84 |
| Onsite | Perched Zone | PZ-21R | 7-Jul-21 | 398445.157 | 2049883.125 | 17-22 | 150.67 | 12.88 | 137.79 |
| Onsite | Perched Zone | PZ-24 | 7-Jul-21 | 396117.94 | 2050744.07 | 11 - 16 | 147.53 | 14 | 133.53 |
| Onsite | Perched Zone | PZ-26 | 7-Jul-21 | 396059.78 | 2050382.35 | 11 - 16 | 147.70 | 12.75 | 134.95 |
| Onsite | Perched Zone | PZ-28 | 7-Jul-21 | 396304.55 | 2049933.79 | 13 - 18 | 148.64 | 13.18 | 135.46 |
| Onsite | Perched Zone | PZ-35 | 7-Jul-21 | 398232.643 | 2050020.494 | 13 - 18 | 150.43 | 12.51 | 137.92 |
| Onsite | Surficial Aquifer | PZ-L | 7-Jul-21 | 396745.804 | 2048684.008 | 13-28 | 147.86 | 30.04 | 117.82 |
| Onsite | Perched Zone | SMW-05 | 7-Jul-21 | 399334.0651 | 2048557.335 | 10.0-20.0 | 148.10 | 22.92 | 125.18 |
| Onsite | Surficial Aquifer | SMW-05P | 7-Jul-21 | 399391.46 | 2049235.07 | 45.0-60.0 | 149.66 | 42.32 | 107.34 |
| Onsite | Perched Zone | SMW-06 | 7-Jul-21 | 399172.346 | 2048759.478 | 12.0-22.0 | 150.97 | DRY | -- |
| Onsite | Surficial Aquifer | SMW-06B | 7-Jul-21 | 399144.744 | 2048764.939 | 58 - 68 | 150.32 | 45.59 | 104.73 |
| Onsite | Perched Zone | SMW-07 | 7-Jul-21 | 398931.13 | 2048611.74 | 13.0-23.0 | 146.79 | 19.28 | 127.51 |
| Onsite | Perched Zone | SMW-08 | 7-Jul-21 | 399064.972 | 2048468.783 | 21.0-31.0 | 151.02 | DRY | -- |
| Onsite | Surficial Aquifer | SMW-08B | 7-Jul-21 | 399058.325 | 2048478.84 | 58 - 68 | 148.81 | 38.92 | 109.89 |
| Onsite | Black Creek Aquifer | BCA-01 | 10-Aug-21 | 399779.96 | 2050662.48 | 91 - 101 | 146.25 | 59.53 | 86.72 |
| Onsite | Black Creek Aquifer | BCA-02 | 10-Aug-21 | 396242.02 | 2051062.07 | 92 - 102 | 148.37 | NM | -- |
| Onsite | Black Creek Aquifer | BCA-03R | 10-Aug-21 | 398582.23 | 2049522.22 | 88 - 98 | 150.82 | 48.41 | 102.41 |
| Onsite | Black Creek Aquifer | BCA-04 | 10-Aug-21 | 395877.665 | 2047823.03 | 94 - 104 | 150.31 | 26.22 | 124.09 |
| Onsite | Black Creek Aquifer | EW-1 | 10-Aug-21 | 399934.65 | 2051297.51 | 40-60 | 91.33 | 31.25 | 60.08 |
| Onsite | Black Creek Aquifer | EW-2 | 10-Aug-21 | 396164.48 | 2052232.61 | 40-65 | 77.25 | 31.73 | 45.52 |
| Onsite | Black Creek Aquifer | EW-3 | 10-Aug-21 | 395059.78 | 2052214.66 | 37-67 | 76.48 | 14.75 | 61.73 |
| Onsite | Black Creek Aquifer | EW-4 | 10-Aug-21 | 398581.51 | 2051805.58 | 53-73 | 80.64 | 30.01 | 50.63 |
| Onsite | Black Creek Aquifer | EW-5 | 10-Aug-21 | 397200.16 | 2052052.65 | 37-67 | 78.50 | 32.95 | 45.55 |
| Onsite | Perched Zone | FTA-01 | 10-Aug-21 | 397906.09 | 2049370.01 | 12.0-22.0 | 149.60 | 16.08 | 133.52 |
| Onsite | Perched Zone | FTA-02 | 10-Aug-21 | 397784.99 | 2049203.29 | 11.5-22.0 | 149.30 | 17.36 | 131.94 |
| Onsite | Perched Zone | FTA-03 | 10-Aug-21 | 397766.23 | 2049310.46 | 12.0-22.0 | 150.10 | 17.31 | 132.79 |
| Onsite | Surficial Aquifer | INSITU-01 | 10-Aug-21 | 401657.39 | 2046078.99 | 7.0-17.0 | 89.12 | 5.32 | 83.8 |
| Onsite | Surficial Aquifer | INSITU-02 | 10-Aug-21 | 401863.46 | 2049136.62 | 7.0-17.0 | 113.12 | DRY | -- |
| Onsite | Floodplain Deposits | LTW-01 | 10-Aug-21 | 399565.01 | 2052150.62 | 11.0-26.0 | 52.71 | 16.16 | 36.55 |

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**GROUNDWATER ELEVATIONS - Q2 2021**
**Chemours Fayetteville Works, North Carolina**

| Area[1] | Water Bearing Unit[2] | Well ID | Gauging Date | Northing (ft, SPCS NAD83)[3] | Easting (ft, SPCS NAD83)[3] | Screened Interval (ft) | TOC Elevation (ft, NAVD 88)[4] | Depth to Water (ft from TOC) | Water Level (ft, NAVD88) |
|---|---|---|---|---|---|---|---|---|---|
| Onsite | Black Creek Aquifer | LTW-02 | 10-Aug-21 | 398847.57 | 2052355.48 | 28.0-38.0 | 51.39 | 8.89 | 42.5 |
| Onsite | Floodplain Deposits | LTW-03 | 10-Aug-21 | 398114.45 | 2052558.35 | 15.0-30.0 | 51.75 | 12.39 | 39.36 |
| Onsite | Floodplain Deposits | LTW-04 | 10-Aug-21 | 397279.61 | 2052584.95 | 12.0-27.0 | 50.66 | 7.66 | 43 |
| Onsite | Black Creek Aquifer | LTW-05 | 10-Aug-21 | 396430.31 | 2052740.4 | 29.0-44.0 | 50.94 | 9.14 | 41.8 |
| Onsite | Perched Zone | MW-11 | 10-Aug-21 | 396544.4 | 2049051.06 | 11.5-21.5 | 148.53 | 23.52 | 125.01 |
| Onsite | Perched Zone | MW-12S | 10-Aug-21 | 397262.9 | 2049269.37 | 17.5-22.5 | 151.08 | 19.73 | 131.35 |
| Onsite | Surficial Aquifer | MW-13D | 10-Aug-21 | 397119.015 | 2049821.123 | 57 - 67 | 148.65 | 43.55 | 105.1 |
| Onsite | Surficial Aquifer | MW-14D | 10-Aug-21 | 396974.485 | 2049074.561 | 62 - 72 | 149.73 | 38.61 | 111.12 |
| Onsite | Surficial Aquifer | MW-15DRR | 10-Aug-21 | 398580.71 | 2049511.75 | 52.5 - 62.5 | 150.92 | 46.45 | 104.47 |
| Onsite | Surficial Aquifer | MW-16D | 10-Aug-21 | 398493.703 | 2048402.838 | 72 - 82 | 148.41 | 33.8 | 114.61 |
| Onsite | Surficial Aquifer | MW-17D | 10-Aug-21 | 398401.741 | 2047366.496 | 57 - 67 | 146.12 | 26.28 | 119.84 |
| Onsite | Surficial Aquifer | MW-18D | 10-Aug-21 | 400947.3 | 2046574.35 | 50 - 60 | 108.10 | 18.69 | 89.41 |
| Onsite | Surficial Aquifer | MW-19D | 10-Aug-21 | 401151.43 | 2048272.93 | 46 - 56 | 139.36 | 49.68 | 89.68 |
| Onsite | Perched Zone | MW-1S | 10-Aug-21 | 397080.69 | 2049117.99 | 21.0-24.0 | 148.88 | 18.78 | 130.1 |
| Onsite | Surficial Aquifer | MW-20D | 10-Aug-21 | 400791.01 | 2048733.71 | 65 - 75 | 137.20 | 46.14 | 91.06 |
| Onsite | Surficial Aquifer | MW-21D | 10-Aug-21 | 399501.88 | 2047074.92 | 72 - 82 | 151.42 | 43.84 | 107.58 |
| Onsite | Surficial Aquifer | MW-22D | 10-Aug-21 | 398518.4 | 2048362.48 | 52 - 72 | 149.09 | 33.66 | 115.43 |
| Onsite | Perched Zone | MW-23 | 10-Aug-21 | 396237.61 | 2051063.25 | 9.5 -14.5 | 148.34 | 14.15 | 134.19 |
| Onsite | Perched Zone | MW-24 | 10-Aug-21 | 397303.94 | 2048767.69 | 18.8 - 23.8 | 150.31 | 21.47 | 128.84 |
| Onsite | Perched Zone | MW-25 | 10-Aug-21 | 396753.37 | 2050989.82 | 12 - 17 | 147.59 | 13.75 | 133.84 |
| Onsite | Perched Zone | MW-26 | 10-Aug-21 | 396265.18 | 2051484.67 | 5 - 10 | 147.70 | 11.81 | 135.89 |
| Onsite | Perched Zone | MW-27 | 10-Aug-21 | 396010.33 | 2051472 | 10 - 15 | 146.83 | 14.64 | 132.19 |
| Onsite | Perched Zone | MW-28 | 10-Aug-21 | 395719.79 | 2051165.93 | 9 - 14 | 144.70 | 13.63 | 131.07 |
| Onsite | Perched Zone | MW-30 | 10-Aug-21 | 397340.79 | 2050776.09 | 10 - 15 | 147.67 | 12.98 | 134.69 |
| Onsite | Perched Zone | MW-31 | 10-Aug-21 | 396390.698 | 2049622.884 | 17-22 | 147.70 | 15.82 | 131.88 |
| Onsite | Perched Zone | MW-32 | 10-Aug-21 | 396359.577 | 2049651.789 | 13-18.5 | 147.11 | 14.82 | 132.29 |
| Onsite | Perched Zone | MW-33 | 10-Aug-21 | 396337.507 | 2049678.558 | 12-17 | 146.82 | 14.3 | 132.52 |
| Onsite | Perched Zone | MW-34 | 10-Aug-21 | 396352.902 | 2049619.086 | 17-22 | 147.97 | 15.82 | 132.15 |
| Onsite | Perched Zone | MW-35 | 10-Aug-21 | 396332.943 | 2049631.155 | 14-19 | 147.54 | 15.3 | 132.24 |
| Onsite | Perched Zone | MW-36 | 10-Aug-21 | 396320.088 | 2049651.174 | 12-17 | 147.89 | 15.58 | 132.31 |
| Onsite | Perched Zone | MW-7S | 10-Aug-21 | 397444.5245 | 2049809.731 | NA | 147.47 | 10.12 | 137.35 |
| Onsite | Perched Zone | MW-8S | 10-Aug-21 | 397096.4767 | 2049867.768 | NA | 146.48 | 6.37 | 140.11 |
| Onsite | Perched Zone | MW-9S | 10-Aug-21 | 396760.1617 | 2049734.296 | 17.5-22.5 | 154.39 | 21.03 | 133.36 |
| Onsite | Perched Zone | NAF-01 | 10-Aug-21 | 398348.58 | 2050339.68 | 5.0-15.0 | 148.65 | 8.54 | 140.11 |
| Onsite | Perched Zone | NAF-02 | 10-Aug-21 | 398660.16 | 2050634.55 | 5.0-15.0 | 149.28 | 9.43 | 139.85 |
| Onsite | Perched Zone | NAF-03 | 10-Aug-21 | 398578.63 | 2050743.04 | 5.0-15.0 | 149.41 | 9.7 | 139.71 |
| Onsite | Perched Zone | NAF-04 | 10-Aug-21 | 398445.89 | 2050713.13 | 5.0-15.0 | 146.77 | 6.75 | 140.02 |
| Onsite | Perched Zone | NAF-06 | 10-Aug-21 | 398808.81 | 2050913.93 | 2.75-12.75 | 145.43 | 11.52 | 133.91 |
| Onsite | Perched Zone | NAF-07 | 10-Aug-21 | 398898.69 | 2050618.12 | 5.5-15.5 | 149.03 | 9.28 | 139.75 |
| Onsite | Perched Zone | NAF-08A | 10-Aug-21 | 398098.22 | 2050886.93 | 5.0-15.0 | 147.74 | 8.47 | 139.27 |
| Onsite | Surficial Aquifer | NAF-08B | 10-Aug-21 | 398095.97 | 2050880.18 | 43.5-53.5 | 147.83 | 53.03 | 94.8 |
| Onsite | Perched Zone | NAF-09 | 10-Aug-21 | 397708.78 | 2050807.44 | 7.0-17.0 | 148.62 | 11.85 | 136.77 |
| Onsite | Perched Zone | NAF-10 | 10-Aug-21 | 397611.81 | 2050425.2 | 8.25-18.25 | 149.25 | 11.61 | 137.64 |

**TABLE A6**
**GROUNDWATER ELEVATIONS - Q2 2021**
**Chemours Fayetteville Works, North Carolina**

| Area[1] | Water Bearing Unit[2] | Well ID | Gauging Date | Northing (ft, SPCS NAD83)[3] | Easting (ft, SPCS NAD83)[3] | Screened Interval (ft) | TOC Elevation (ft, NAVD 88)[4] | Depth to Water (ft from TOC) | Water Level (ft, NAVD88) |
|---|---|---|---|---|---|---|---|---|---|
| Onsite | Perched Zone | NAF-11A | 10-Aug-21 | 398907.08 | 2050999.77 | 2.5-7.5 | 139.74 | 5.01 | 134.73 |
| Onsite | Surficial Aquifer | NAF-11B | 10-Aug-21 | 398911.13 | 2050995.88 | 33.5-43.5 | 140.74 | 46.66 | 94.08 |
| Onsite | Perched Zone | NAF-12 | 10-Aug-21 | 398270.555 | 2050777.49 | 18 - 23 | 145.79 | 8.67 | 137.12 |
| Onsite | Black Creek Aquifer | OW-1 | 10-Aug-21 | 399930.53 | 2051287.87 | 40-50 | 95.01 | 34.76 | 60.25 |
| Onsite | Black Creek Aquifer | OW-10 | 10-Aug-21 | 399948.17 | 2051291.21 | 40-50 | 94.39 | 34.1 | 60.29 |
| Onsite | Black Creek Aquifer | OW-2 | 10-Aug-21 | 398572.28 | 2051801.62 | 63-73 | 84.37 | 33.99 | 50.38 |
| Onsite | Black Creek Aquifer | OW-3 | 10-Aug-21 | 398601.08 | 2051812.32 | 63-73 | 84.64 | 34.46 | 50.18 |
| Onsite | Black Creek Aquifer | OW-4 | 10-Aug-21 | 395049.16 | 2052210.81 | 47-57 | 80.85 | 19.09 | 61.76 |
| Onsite | Black Creek Aquifer | OW-5 | 10-Aug-21 | 395070.03 | 2052196.97 | 54-64 | 81.61 | 19.03 | 62.58 |
| Onsite | Black Creek Aquifer | OW-6 | 10-Aug-21 | 396168.41 | 2052223.54 | 50-60 | 80.53 | 37.5 | 43.03 |
| Onsite | Black Creek Aquifer | OW-7 | 10-Aug-21 | 397180.06 | 2052052.69 | 57-67 | 81.45 | 35.96 | 45.49 |
| Onsite | Black Creek Aquifer | OW-8 | 10-Aug-21 | 397202.33 | 2052041.98 | 57-67 | 82.30 | 37.56 | 44.74 |
| Onsite | Black Creek Aquifer | OW-9 | 10-Aug-21 | 395075.14 | 2052211.07 | 54-64 | 79.78 | 17.87 | 61.91 |
| Onsite | Black Creek Aquifer | PIW-10DR | 10-Aug-21 | 395093.99 | 2052297.3 | 53 - 58 | 75.91 | 14.26 | 61.65 |
| Onsite | Surficial Aquifer | PIW-10S | 10-Aug-21 | 395104.95 | 2052296.98 | 7 - 17 | 76.32 | 18.63 | 57.69 |
| Onsite | Black Creek Aquifer | PIW-11 | 10-Aug-21 | 401911.03 | 2050416.29 | 47-57 | 67.02 | 21.81 | 45.21 |
| Onsite | Black Creek Aquifer | PIW-12 | 10-Aug-21 | 401703.1 | 2051025.77 | 64-74 | 83.78 | 49.06 | 34.72 |
| Onsite | Black Creek Aquifer | PIW-13 | 10-Aug-21 | 401464.29 | 2051122.6 | 54-64 | 83.18 | 48.19 | 34.99 |
| Onsite | Black Creek Aquifer | PIW-14 | 10-Aug-21 | 401163.98 | 2051186.57 | 56-66 | 87.43 | 51.61 | 35.82 |
| Onsite | Black Creek Aquifer | PIW-15 | 10-Aug-21 | 400706.51 | 2051532.8 | 34-44 | 67.85 | 34.01 | 33.84 |
| Onsite | Black Creek Aquifer | PIW-16D | 10-Aug-21 | 396257.96 | 2046587.07 | 90-100 | 150.06 | 18.69 | 131.37 |
| Onsite | Surficial Aquifer | PIW-16S | 10-Aug-21 | 396267.84 | 2046586.09 | 35-45 | 149.74 | 14.64 | 135.1 |
| Onsite | Black Creek Aquifer | PIW-1D | 10-Aug-21 | 400548 | 2051801.28 | 24.5 - 29.5 | 52.16 | 18.48 | 33.68 |
| Onsite | Floodplain Deposits | PIW-1S | 10-Aug-21 | 400541.03 | 2051792.39 | 7.8 - 17.8 | 54.04 | 21.2 | 32.84 |
| Onsite | Black Creek Aquifer | PIW-2D | 10-Aug-21 | 399925.4 | 2051315.8 | 40 - 50 | 96.19 | 36 | 60.19 |
| Onsite | Black Creek Aquifer | PIW-3D | 10-Aug-21 | 399711.25 | 2052086.94 | 19 - 24 | 53.42 | 17.09 | 36.33 |
| Onsite | Black Creek Aquifer | PIW-4D | 10-Aug-21 | 398816.52 | 2052101.94 | 32.3 - 37.3 | 52.85 | 10.02 | 42.83 |
| Onsite | Surficial Aquifer | PIW-5S | 10-Aug-21 | 398519.7 | 2051950.49 | 9.8 - 19.8 | 75.02 | 13.84 | 61.18 |
| Onsite | Floodplain Deposits | PIW-6S | 10-Aug-21 | 398117.93 | 2052539.79 | 18 - 28 | 53.40 | 13.93 | 39.47 |
| Onsite | Black Creek Aquifer | PIW-7D | 10-Aug-21 | 396787.77 | 2052595.65 | 29 - 34 | 48.93 | 5.1 | 43.83 |
| Onsite | Floodplain Deposits | PIW-7S | 10-Aug-21 | 396786.97 | 2052589.1 | 7 - 17 | 47.97 | 4.93 | 43.04 |
| Onsite | Black Creek Aquifer | PIW-8D | 10-Aug-21 | 396403.37 | 2052682.1 | 35.5 - 40 | 48.66 | 6.85 | 41.81 |
| Onsite | Black Creek Aquifer | PIW-9D | 10-Aug-21 | 396155.84 | 2052250.84 | 40 - 45 | 79.64 | 36.74 | 42.9 |
| Onsite | Surficial Aquifer | PIW-9S | 10-Aug-21 | 396148.52 | 2052251.03 | 24.8 - 29.8 | 79.64 | 20.51 | 59.13 |
| Onsite | Perched Zone | PW-01 | 10-Aug-21 | 399064.799 | 2049654.303 | 11 - 21 | 149.55 | 14.29 | 135.26 |
| Onsite | Surficial Aquifer | PW-02 | 10-Aug-21 | 399779.064 | 2050649.466 | 50 - 60 | 146.43 | 55 | 91.43 |
| Onsite | Surficial Aquifer | PW-03 | 10-Aug-21 | 397339.809 | 2050765.319 | 35 - 45 | 147.97 | 41.92 | 106.05 |
| Onsite | Surficial Aquifer | PW-04 | 10-Aug-21 | 394659.549 | 2050940.657 | 17 - 27 | 97.75 | 25.27 | 72.48 |
| Onsite | Surficial Aquifer | PW-05 | 10-Aug-21 | 395873.1 | 2047812.929 | 65 - 75 | 150.34 | 26.55 | 123.79 |
| Onsite | Surficial Aquifer | PW-06 | 10-Aug-21 | 392868 | 2045288.765 | 19 - 29 | 147.69 | 18.9 | 128.79 |
| Onsite | Surficial Aquifer | PW-07 | 10-Aug-21 | 390847.706 | 2049258.256 | 28 - 38 | 148.16 | 37.65 | 110.51 |
| Onsite | Black Creek Aquifer | PW-09 | 10-Aug-21 | 402000.079 | 2048979.111 | 44 - 54 | 72.93 | 24.87 | 48.05 |
| Onsite | Black Creek Aquifer | PW-10R | 10-Aug-21 | 398516.115 | 2051936.585 | 57 - 67 | 75.90 | 26.51 | 49.39 |

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**GROUNDWATER ELEVATIONS - Q2 2021**
**Chemours Fayetteville Works, North Carolina**

| Area[1] | Water Bearing Unit[2] | Well ID | Gauging Date | Northing (ft, SPCS NAD83)[3] | Easting (ft, SPCS NAD83)[3] | Screened Interval (ft) | TOC Elevation (ft, NAVD 88)[4] | Depth to Water (ft from TOC) | Water Level (ft, NAVD88) |
|---|---|---|---|---|---|---|---|---|---|
| Onsite | Black Creek Aquifer | PW-11 | 10-Aug-21 | 394354.363 | 2052226.721 | 53 - 63 | 73.26 | 31.33 | 41.93 |
| Onsite | Black Creek Aquifer | PW-12 | 10-Aug-21 | 399500.447 | 2047063.51 | 109 - 119 | 150.61 | 56.47 | 94.14 |
| Onsite | Black Creek Aquifer | PW-13 | 10-Aug-21 | 397584.263 | 2048029.184 | 120 - 130 | 149.36 | 30.13 | 119.23 |
| Onsite | Black Creek Aquifer | PW-14 | 10-Aug-21 | 397325.648 | 2050766.359 | 136 - 146 | 147.97 | 61.03 | 86.94 |
| Onsite | Black Creek Aquifer | PW-15R | 10-Aug-21 | 398900.875 | 2051011.753 | 110 - 120 | 136.14 | 58.01 | 78.13 |
| Onsite | Perched Zone | PZ-11 | 10-Aug-21 | 398646.2549 | 2049820.937 | 15-20 | 151.03 | 9.68 | 141.35 |
| Onsite | Perched Zone | PZ-12 | 10-Aug-21 | 399091.19 | 2048978.89 | 15.1-20.1 | 149.89 | 19.26 | 130.63 |
| Onsite | Perched Zone | PZ-13 | 10-Aug-21 | 397707.82 | 2050985.25 | 7.1-12.1 | 148.14 | 11.28 | 136.86 |
| Onsite | Perched Zone | PZ-14 | 10-Aug-21 | 397589.9185 | 2050618.271 | 9.0-14.0 | 148.38 | 10.16 | 138.22 |
| Onsite | Perched Zone | PZ-15 | 10-Aug-21 | 396806.39 | 2050107.5 | 10.2-15.2 | 147.76 | 12.93 | 134.83 |
| Onsite | Perched Zone | PZ-17 | 10-Aug-21 | 396614.815 | 2048872.689 | 21.1-26.1 | 150.08 | DRY | -- |
| Onsite | Perched Zone | PZ-19R | 10-Aug-21 | 397998.663 | 2049919.516 | 16-21 | 150.05 | 12.82 | 137.23 |
| Onsite | Perched Zone | PZ-20R | 10-Aug-21 | 398185.809 | 2049784.598 | 15-20 | 151.29 | 14.2 | 137.09 |
| Onsite | Perched Zone | PZ-21R | 10-Aug-21 | 398445.157 | 2049883.125 | 17-22 | 150.67 | 12.49 | 138.18 |
| Onsite | Black Creek Aquifer | PZ-22 | 10-Aug-21 | 397271.94 | 2052585.34 | 42.5-47.5 | 50.70 | 6.92 | 43.78 |
| Onsite | Perched Zone | PZ-24 | 10-Aug-21 | 396117.94 | 2050744.07 | 11 - 16 | 147.53 | 14.04 | 133.49 |
| Onsite | Perched Zone | PZ-25R | 10-Aug-21 | 395971.54 | 2050748.23 | 6 to 16 | 147.51 | DRY | -- |
| Onsite | Perched Zone | PZ-26 | 10-Aug-21 | 396059.78 | 2050382.35 | 11 - 16 | 147.70 | 12.82 | 134.88 |
| Onsite | Perched Zone | PZ-27 | 10-Aug-21 | 395922.11 | 2050376.76 | 12 - 17 | 147.17 | 13.71 | 133.46 |
| Onsite | Perched Zone | PZ-28 | 10-Aug-21 | 396304.55 | 2049933.79 | 13 - 18 | 148.64 | 13.13 | 135.51 |
| Onsite | Perched Zone | PZ-29 | 10-Aug-21 | 396377.59 | 2049771.59 | 12 - 18 | 147.74 | 14.42 | 133.32 |
| Onsite | Perched Zone | PZ-31 | 10-Aug-21 | 396428.73 | 2049594.355 | 14 - 19 | 148.00 | 17.77 | 130.23 |
| Onsite | Perched Zone | PZ-32 | 10-Aug-21 | 396418.471 | 2049713.787 | 13 - 18 | 148.47 | 15.5 | 132.97 |
| Onsite | Perched Zone | PZ-33 | 10-Aug-21 | 396308.915 | 2049707.661 | 12.5-17.5 | 146.72 | 13.97 | 132.74 |
| Onsite | Perched Zone | PZ-34 | 10-Aug-21 | 396292.05 | 2049595.039 | 13.5-18.5 | 147.70 | 15.82 | 131.88 |
| Onsite | Perched Zone | PZ-35 | 10-Aug-21 | 398232.643 | 2050020.494 | 13 - 18 | 150.43 | 12.31 | 138.12 |
| Onsite | Perched Zone | PZ-36 | 10-Aug-21 | 396086.17 | 2051331.44 | 5 - 8.5 | 135.20 | 1.93 | 133.27 |
| Onsite | Perched Zone | PZ-37 | 10-Aug-21 | 396042.4 | 2051050.05 | 5 - 8 | 135.56 | 1.94 | 133.62 |
| Onsite | Perched Zone | PZ-38 | 10-Aug-21 | 395970.01 | 2050569.66 | 5 - 9 | 137.34 | DRY | -- |
| Onsite | Perched Zone | PZ-39 | 10-Aug-21 | 395921.87 | 2050238.18 | 5 - 10 | 137.93 | 3.21 | 134.72 |
| Onsite | Perched Zone | PZ-40 | 10-Aug-21 | 395943.02 | 2050031.9 | 5 - 9 | 138.51 | 3.58 | 134.93 |
| Onsite | Perched Zone | PZ-41 | 10-Aug-21 | 395979.29 | 2050048.97 | 5 - 8.5 | 138.13 | 2.88 | 135.25 |
| Onsite | Perched Zone | PZ-42 | 10-Aug-21 | 395961.73 | 2050230.23 | 3 - 7 | 138.17 | 3.17 | 135 |
| Onsite | Perched Zone | PZ-43 | 10-Aug-21 | 396011.61 | 2050567.89 | 5 - 9 | 137.06 | 6.2 | 130.86 |
| Onsite | Perched Zone | PZ-44 | 10-Aug-21 | 396082.75 | 2051045.25 | 5 - 7 | 136.26 | 2.58 | 133.68 |
| Onsite | Perched Zone | PZ-45 | 10-Aug-21 | 396124.41 | 2051323.03 | 2 - 4 | 135.69 | 2.49 | 133.2 |
| Onsite | Surficial Aquifer | PZ-L | 10-Aug-21 | 396745.804 | 2048684.008 | 13-28 | 147.86 | DRY | -- |
| Onsite | Surficial Aquifer | SMW-01 | 10-Aug-21 | 395297.97 | 2043688.29 | 5.0-15.0 | 150.58 | 12.2 | 138.38 |
| Onsite | Perched Zone | SMW-02 | 10-Aug-21 | 399982.23 | 2050655.91 | 5.0-20.0 | 144.59 | 12.41 | 132.18 |
| Onsite | Surficial Aquifer | SMW-02B | 10-Aug-21 | 399983.75 | 2050654.77 | 43.0-53.0 | 147.93 | 55.98 | 91.95 |
| Onsite | Perched Zone | SMW-03 | 10-Aug-21 | 399779.32 | 2049445.32 | 10.0-20.0 | 151.09 | DRY | -- |
| Onsite | Black Creek Aquifer | SMW-03B | 10-Aug-21 | 399785.752 | 2049421.539 | 72 - 82 | 150.43 | 55.18 | 95.25 |
| Onsite | Perched Zone | SMW-04A | 10-Aug-21 | 399668.71 | 2048387.57 | 19.5-34.5 | 148.09 | 37.12 | 110.97 |

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**GROUNDWATER ELEVATIONS - Q2 2021**
**Chemours Fayetteville Works, North Carolina**

| Area[1] | Water Bearing Unit[2] | Well ID | Gauging Date | Northing (ft, SPCS NAD83)[3] | Easting (ft, SPCS NAD83)[3] | Screened Interval (ft) | TOC Elevation (ft, NAVD 88)[4] | Depth to Water (ft from TOC) | Water Level (ft, NAVD88) |
|---|---|---|---|---|---|---|---|---|---|
| Onsite | Surficial Aquifer | SMW-04B | 10-Aug-21 | 399666.21 | 2048392.37 | 43.0-53.0 | 147.65 | 43.73 | 103.92 |
| Onsite | Perched Zone | SMW-05 | 10-Aug-21 | 399334.0651 | 2048557.335 | 10.0-20.0 | 148.10 | DRY | -- |
| Onsite | Surficial Aquifer | SMW-05P | 10-Aug-21 | 399391.46 | 2049235.07 | 45.0-60.0 | 149.66 | 42.18 | 107.48 |
| Onsite | Perched Zone | SMW-06 | 10-Aug-21 | 399172.346 | 2048759.478 | 12.0-22.0 | 150.97 | DRY | -- |
| Onsite | Surficial Aquifer | SMW-06B | 10-Aug-21 | 399144.744 | 2048764.939 | 58 - 68 | 150.32 | 45.5 | 104.82 |
| Onsite | Perched Zone | SMW-07 | 10-Aug-21 | 398931.13 | 2048611.74 | 13.0-23.0 | 146.79 | 19.36 | 127.43 |
| Onsite | Perched Zone | SMW-08 | 10-Aug-21 | 399064.972 | 2048468.783 | 21.0-31.0 | 151.02 | DRY | -- |
| Onsite | Surficial Aquifer | SMW-08B | 10-Aug-21 | 399058.325 | 2048478.84 | 58 - 68 | 148.81 | 39.93 | 108.88 |
| Onsite | Surficial Aquifer | SMW-09 | 10-Aug-21 | 401076.889 | 2050017.409 | 52 - 62 | 141.43 | 54.39 | 87.04 |
| Onsite | Surficial Aquifer | SMW-10 | 10-Aug-21 | 402307.305 | 2047923.84 | 39 - 49 | 76.26 | 29.32 | 46.94 |
| Onsite | Surficial Aquifer | SMW-11 | 10-Aug-21 | 401996.154 | 2048975.382 | 13 - 23 | 71.95 | 12.45 | 59.5 |
| Onsite | Black Creek Aquifer | SMW-12 | 10-Aug-21 | 401314.202 | 2051007.222 | 88 - 98 | 118.22 | 83.44 | 34.78 |
| Onsite | Black Creek Aquifer | BCA-01 | 7-Sep-21 | 399779.96 | 2050662.48 | 91 - 101 | 146.25 | 57.76 | 88.49 |
| Onsite | Black Creek Aquifer | BCA-02 | 7-Sep-21 | 396242.02 | 2051062.07 | 92 - 102 | 148.37 | 73.02 | 75.35 |
| Onsite | Black Creek Aquifer | BCA-03R | 7-Sep-21 | 398582.23 | 2049522.22 | 88 - 98 | 150.82 | 48.51 | 102.31 |
| Onsite | Black Creek Aquifer | BCA-04 | 7-Sep-21 | 395877.665 | 2047823.03 | 94 - 104 | 150.31 | 26.75 | 123.56 |
| Onsite | Black Creek Aquifer | EW-1 | 7-Sep-21 | 399934.65 | 2051297.51 | 40-60 | 91.33 | 31.5 | 59.83 |
| Onsite | Black Creek Aquifer | EW-2 | 7-Sep-21 | 396164.48 | 2052232.61 | 40-65 | 77.25 | 31.98 | 45.27 |
| Onsite | Black Creek Aquifer | EW-3 | 7-Sep-21 | 395059.78 | 2052214.66 | 37-67 | 76.48 | 14.9 | 61.58 |
| Onsite | Black Creek Aquifer | EW-4 | 7-Sep-21 | 398581.51 | 2051805.58 | 53-73 | 80.64 | 32.1 | 48.54 |
| Onsite | Black Creek Aquifer | EW-5 | 7-Sep-21 | 397200.16 | 2052052.65 | 37-67 | 78.50 | 33.14 | 45.36 |
| Onsite | Perched Zone | FTA-01 | 7-Sep-21 | 397906.09 | 2049370.01 | 12.0-22.0 | 149.60 | 16.88 | 132.72 |
| Onsite | Perched Zone | FTA-02 | 7-Sep-21 | 397784.99 | 2049203.29 | 11.5-22.0 | 149.30 | 17.66 | 131.64 |
| Onsite | Perched Zone | FTA-03 | 7-Sep-21 | 397766.23 | 2049310.46 | 12.0-22.0 | 150.10 | 17.7 | 132.4 |
| Onsite | Surficial Aquifer | INSITU-01 | 7-Sep-21 | 401657.39 | 2046078.99 | 7.0-17.0 | 89.12 | 5.98 | 83.14 |
| Onsite | Surficial Aquifer | INSITU-02 | 7-Sep-21 | 401863.46 | 2049136.62 | 7.0-17.0 | 113.12 | DRY | -- |
| Onsite | Floodplain Deposits | LTW-01 | 7-Sep-21 | 399565.01 | 2052150.62 | 11.0-26.0 | 52.71 | 16.45 | 36.26 |
| Onsite | Black Creek Aquifer | LTW-02 | 7-Sep-21 | 398847.57 | 2052355.48 | 28.0-38.0 | 51.39 | 9.48 | 41.91 |
| Onsite | Floodplain Deposits | LTW-03 | 7-Sep-21 | 398114.45 | 2052558.35 | 15.0-30.0 | 51.75 | 12.9 | 38.85 |
| Onsite | Floodplain Deposits | LTW-04 | 7-Sep-21 | 397279.61 | 2052584.95 | 12.0-27.0 | 50.66 | 8.06 | 42.6 |
| Onsite | Black Creek Aquifer | LTW-05 | 7-Sep-21 | 396430.31 | 2052740.4 | 29.0-44.0 | 50.94 | 9.15 | 41.79 |
| Onsite | Perched Zone | MW-11 | 7-Sep-21 | 396544.4 | 2049051.06 | 11.5-21.5 | 148.53 | 23.33 | 125.2 |
| Onsite | Perched Zone | MW-12S | 7-Sep-21 | 397262.9 | 2049269.37 | 17.5-22.5 | 151.08 | 20.1 | 130.98 |
| Onsite | Surficial Aquifer | MW-13D | 7-Sep-21 | 397119.015 | 2049821.123 | 57 - 67 | 148.65 | 43.57 | 105.08 |
| Onsite | Surficial Aquifer | MW-14D | 7-Sep-21 | 396974.485 | 2049074.561 | 62 - 72 | 149.73 | 38.67 | 111.06 |
| Onsite | Surficial Aquifer | MW-15DRR | 7-Sep-21 | 398580.71 | 2049511.75 | 52.5 - 62.5 | 150.92 | 46.57 | 104.35 |
| Onsite | Surficial Aquifer | MW-16D | 7-Sep-21 | 398493.703 | 2048402.838 | 72 - 82 | 148.41 | 34.05 | 114.36 |
| Onsite | Surficial Aquifer | MW-17D | 7-Sep-21 | 398401.741 | 2047366.496 | 57 - 67 | 146.12 | 27.12 | 119 |
| Onsite | Surficial Aquifer | MW-18D | 7-Sep-21 | 400947.3 | 2046574.35 | 50 - 60 | 108.10 | 19.22 | 88.88 |
| Onsite | Surficial Aquifer | MW-19D | 7-Sep-21 | 401151.43 | 2048272.93 | 46 - 56 | 139.36 | 49.96 | 89.4 |
| Onsite | Perched Zone | MW-1S | 7-Sep-21 | 397080.69 | 2049117.99 | 21.0-24.0 | 148.88 | 19.04 | 129.84 |
| Onsite | Surficial Aquifer | MW-20D | 7-Sep-21 | 400791.01 | 2048733.71 | 65 - 75 | 137.20 | 46.36 | 90.84 |
| Onsite | Surficial Aquifer | MW-21D | 7-Sep-21 | 399501.88 | 2047074.92 | 72 - 82 | 151.42 | 44.18 | 107.24 |

**TABLE A6**
**GROUNDWATER ELEVATIONS - Q2 2021**
**Chemours Fayetteville Works, North Carolina**

| Area[1] | Water Bearing Unit[2] | Well ID | Gauging Date | Northing (ft, SPCS NAD83)[3] | Easting (ft, SPCS NAD83)[3] | Screened Interval (ft) | TOC Elevation (ft, NAVD 88)[4] | Depth to Water (ft from TOC) | Water Level (ft, NAVD88) |
|---|---|---|---|---|---|---|---|---|---|
| Onsite | Surficial Aquifer | MW-22D | 7-Sep-21 | 398518.4 | 2048362.48 | 52 - 72 | 149.09 | 33.93 | 115.16 |
| Onsite | Perched Zone | MW-23 | 7-Sep-21 | 396237.61 | 2051063.25 | 9.5 -14.5 | 148.34 | 14.3 | 134.04 |
| Onsite | Perched Zone | MW-24 | 7-Sep-21 | 397303.94 | 2048767.69 | 18.8 - 23.8 | 150.31 | 21.65 | 128.66 |
| Onsite | Perched Zone | MW-25 | 7-Sep-21 | 396753.37 | 2050989.82 | 12 - 17 | 147.59 | 13.09 | 134.5 |
| Onsite | Perched Zone | MW-26 | 7-Sep-21 | 396265.18 | 2051484.67 | 5 - 10 | 147.70 | 12.43 | 135.27 |
| Onsite | Perched Zone | MW-27 | 7-Sep-21 | 396010.33 | 2051472 | 10 - 15 | 146.83 | 15.06 | 131.77 |
| Onsite | Perched Zone | MW-28 | 7-Sep-21 | 395719.79 | 2051165.93 | 9 - 14 | 144.70 | 14.19 | 130.51 |
| Onsite | Perched Zone | MW-30 | 7-Sep-21 | 397340.79 | 2050776.09 | 10 - 15 | 147.67 | 14.03 | 133.64 |
| Onsite | Perched Zone | MW-31 | 7-Sep-21 | 396390.698 | 2049622.884 | 17-22 | 147.699 | 15.99 | 131.71 |
| Onsite | Perched Zone | MW-32 | 7-Sep-21 | 396359.577 | 2049651.789 | 13-18.5 | 147.106 | 14.97 | 132.14 |
| Onsite | Perched Zone | MW-33 | 7-Sep-21 | 396337.507 | 2049678.558 | 12-17 | 146.82 | 14.46 | 132.36 |
| Onsite | Perched Zone | MW-34 | 7-Sep-21 | 396352.902 | 2049619.086 | 17-22 | 147.972 | 15.96 | 132.01 |
| Onsite | Perched Zone | MW-35 | 7-Sep-21 | 396332.943 | 2049631.155 | 14-19 | 147.541 | 15.45 | 132.09 |
| Onsite | Perched Zone | MW-36 | 7-Sep-21 | 396320.088 | 2049651.174 | 12-17 | 147.889 | 15.73 | 132.16 |
| Onsite | Perched Zone | MW-7S | 7-Sep-21 | 397444.5245 | 2049809.731 | NA | 147.47 | 10.74 | 136.73 |
| Onsite | Perched Zone | MW-8S | 7-Sep-21 | 397096.4767 | 2049867.768 | NA | 146.48 | DRY | -- |
| Onsite | Perched Zone | MW-9S | 7-Sep-21 | 396760.1617 | 2049734.296 | 17.5-22.5 | 154.39 | 21.33 | 133.06 |
| Onsite | Perched Zone | NAF-01 | 7-Sep-21 | 398348.58 | 2050339.68 | 5.0-15.0 | 148.65 | 9.1 | 139.55 |
| Onsite | Perched Zone | NAF-02 | 7-Sep-21 | 398660.16 | 2050634.55 | 5.0-15.0 | 149.28 | 9.95 | 139.33 |
| Onsite | Perched Zone | NAF-03 | 7-Sep-21 | 398578.63 | 2050743.04 | 5.0-15.0 | 149.41 | 10.18 | 139.23 |
| Onsite | Perched Zone | NAF-04 | 7-Sep-21 | 398445.89 | 2050713.13 | 5.0-15.0 | 146.77 | 7.34 | 139.43 |
| Onsite | Perched Zone | NAF-06 | 7-Sep-21 | 398808.81 | 2050913.93 | 2.75-12.75 | 145.43 | 11.78 | 133.65 |
| Onsite | Perched Zone | NAF-07 | 7-Sep-21 | 398898.69 | 2050618.12 | 5.5-15.5 | 149.03 | 10.04 | 138.99 |
| Onsite | Perched Zone | NAF-08A | 7-Sep-21 | 398098.22 | 2050886.93 | 5.0-15.0 | 147.74 | 9.69 | 138.05 |
| Onsite | Surficial Aquifer | NAF-08B | 7-Sep-21 | 398095.97 | 2050880.18 | 43.5-53.5 | 147.83 | 52.86 | 94.97 |
| Onsite | Perched Zone | NAF-09 | 7-Sep-21 | 397708.78 | 2050807.44 | 7.0-17.0 | 148.62 | 12.42 | 136.2 |
| Onsite | Perched Zone | NAF-10 | 7-Sep-21 | 397611.81 | 2050425.2 | 8.25-18.25 | 149.25 | 12.46 | 136.79 |
| Onsite | Perched Zone | NAF-11A | 7-Sep-21 | 398907.08 | 2050999.77 | 2.5-7.5 | 139.74 | 6.42 | 133.32 |
| Onsite | Surficial Aquifer | NAF-11B | 7-Sep-21 | 398911.13 | 2050995.88 | 33.5-43.5 | 140.74 | 46.64 | 94.1 |
| Onsite | Perched Zone | NAF-12 | 7-Sep-21 | 398270.555 | 2050777.49 | 18 - 23 | 145.79 | 11.8 | 133.99 |
| Onsite | Black Creek Aquifer | OW-1 | 7-Sep-21 | 399930.53 | 2051287.87 | 40-50 | 95.01 | 34.91 | 60.1 |
| Onsite | Black Creek Aquifer | OW-10 | 7-Sep-21 | 399948.17 | 2051291.21 | 40-50 | 94.39 | 34.29 | 60.1 |
| Onsite | Black Creek Aquifer | OW-2 | 7-Sep-21 | 398572.28 | 2051801.62 | 63-73 | 84.37 | 34.18 | 50.19 |
| Onsite | Black Creek Aquifer | OW-3 | 7-Sep-21 | 398601.08 | 2051812.32 | 63-73 | 84.64 | 34.83 | 49.81 |
| Onsite | Black Creek Aquifer | OW-4 | 7-Sep-21 | 395049.16 | 2052210.81 | 47-57 | 80.85 | 19.28 | 61.57 |
| Onsite | Black Creek Aquifer | OW-5 | 7-Sep-21 | 395070.03 | 2052196.97 | 54-64 | 81.61 | 19.8 | 61.81 |
| Onsite | Black Creek Aquifer | OW-6 | 7-Sep-21 | 396168.41 | 2052223.54 | 50-60 | 80.53 | 37.69 | 42.84 |
| Onsite | Black Creek Aquifer | OW-7 | 7-Sep-21 | 397180.06 | 2052052.69 | 57-67 | 81.45 | 36.13 | 45.32 |
| Onsite | Black Creek Aquifer | OW-8 | 7-Sep-21 | 397202.33 | 2052041.98 | 57-67 | 82.3 | 37.74 | 44.56 |
| Onsite | Black Creek Aquifer | OW-9 | 7-Sep-21 | 395075.14 | 2052211.07 | 54-64 | 79.78 | 18.02 | 61.76 |
| Onsite | Black Creek Aquifer | PIW-10DR | 7-Sep-21 | 395093.99 | 2052297.3 | 53 - 58 | 75.91 | 14.45 | 61.46 |
| Onsite | Surficial Aquifer | PIW-10S | 7-Sep-21 | 395104.95 | 2052296.98 | 7 - 17 | 76.32 | 18.76 | 57.56 |
| Onsite | Black Creek Aquifer | PIW-11 | 7-Sep-21 | 401911.03 | 2050416.29 | 47-57 | 67.02 | 21.85 | 45.17 |

**TABLE A6**
**GROUNDWATER ELEVATIONS - Q2 2021**
**Chemours Fayetteville Works, North Carolina**

| Area[1] | Water Bearing Unit[2] | Well ID | Gauging Date | Northing (ft, SPCS NAD83)[3] | Easting (ft, SPCS NAD83)[3] | Screened Interval (ft) | TOC Elevation (ft, NAVD 88)[4] | Depth to Water (ft from TOC) | Water Level (ft, NAVD88) |
|---|---|---|---|---|---|---|---|---|---|
| Onsite | Black Creek Aquifer | PIW-12 | 7-Sep-21 | 401703.1 | 2051025.77 | 64-74 | 83.78 | 49.36 | 34.42 |
| Onsite | Black Creek Aquifer | PIW-13 | 7-Sep-21 | 401464.29 | 2051122.6 | 54-64 | 83.18 | 48.5 | 34.68 |
| Onsite | Black Creek Aquifer | PIW-14 | 7-Sep-21 | 401163.98 | 2051186.57 | 56-66 | 87.43 | 51.96 | 35.47 |
| Onsite | Black Creek Aquifer | PIW-15 | 7-Sep-21 | 400706.51 | 2051532.8 | 34-44 | 67.85 | 34.16 | 33.69 |
| Onsite | Black Creek Aquifer | PIW-16D | 7-Sep-21 | 396257.96 | 2046587.07 | 90-100 | 150.06 | 19.38 | 130.68 |
| Onsite | Surficial Aquifer | PIW-16S | 7-Sep-21 | 396267.84 | 2046586.09 | 35-45 | 149.74 | 15.46 | 134.28 |
| Onsite | Black Creek Aquifer | PIW-1D | 7-Sep-21 | 400548 | 2051801.28 | 24.5 - 29.5 | 52.16 | 21.48 | 30.68 |
| Onsite | Floodplain Deposits | PIW-1S | 7-Sep-21 | 400541.03 | 2051792.39 | 7.8 - 17.8 | 54.04 | 21.48 | 32.56 |
| Onsite | Black Creek Aquifer | PIW-2D | 7-Sep-21 | 399925.4 | 2051315.8 | 40 - 50 | 96.19 | 36.14 | 60.05 |
| Onsite | Black Creek Aquifer | PIW-3D | 7-Sep-21 | 399711.25 | 2052086.94 | 19 - 24 | 53.42 | 17.41 | 36.01 |
| Onsite | Black Creek Aquifer | PIW-4D | 7-Sep-21 | 398816.52 | 2052101.94 | 32.3 - 37.3 | 52.85 | 10.57 | 42.28 |
| Onsite | Surficial Aquifer | PIW-5S | 7-Sep-21 | 398519.7 | 2051950.49 | 9.8 - 19.8 | 75.02 | 14.11 | 60.91 |
| Onsite | Floodplain Deposits | PIW-6S | 7-Sep-21 | 398117.93 | 2052539.79 | 18 - 28 | 53.4 | 14.42 | 38.98 |
| Onsite | Black Creek Aquifer | PIW-7D | 7-Sep-21 | 396787.77 | 2052595.65 | 29 - 34 | 48.93 | 5.31 | 43.62 |
| Onsite | Floodplain Deposits | PIW-7S | 7-Sep-21 | 396786.97 | 2052589.1 | 7 - 17 | 47.97 | 5.25 | 42.72 |
| Onsite | Black Creek Aquifer | PIW-8D | 7-Sep-21 | 396403.37 | 2052682.1 | 35.5 - 40 | 48.66 | 7 | 41.66 |
| Onsite | Black Creek Aquifer | PIW-9D | 7-Sep-21 | 396155.84 | 2052250.84 | 40 - 45 | 79.64 | 36.9 | 42.74 |
| Onsite | Surficial Aquifer | PIW-9S | 7-Sep-21 | 396148.52 | 2052251.03 | 24.8 - 29.8 | 79.64 | 29.08 | 50.56 |
| Onsite | Perched Zone | PW-01 | 7-Sep-21 | 399064.799 | 2049654.303 | 11 - 21 | 149.547 | 15.37 | 134.18 |
| Onsite | Surficial Aquifer | PW-02 | 7-Sep-21 | 399779.064 | 2050649.466 | 50 - 60 | 146.431 | 55.18 | 91.25 |
| Onsite | Surficial Aquifer | PW-03 | 7-Sep-21 | 397339.809 | 2050765.319 | 35 - 45 | 147.967 | 41.97 | 106 |
| Onsite | Surficial Aquifer | PW-04 | 7-Sep-21 | 394659.549 | 2050940.657 | 17 - 27 | 97.751 | 25.95 | 71.8 |
| Onsite | Surficial Aquifer | PW-05 | 7-Sep-21 | 395873.1 | 2047812.929 | 65 - 75 | 150.336 | 27.2 | 123.14 |
| Onsite | Surficial Aquifer | PW-06 | 7-Sep-21 | 392868 | 2045288.765 | 19 - 29 | 147.691 | 19.14 | 128.55 |
| Onsite | Surficial Aquifer | PW-07 | 7-Sep-21 | 390847.706 | 2049258.256 | 28 - 38 | 148.16 | 37.52 | 110.64 |
| Onsite | Black Creek Aquifer | PW-09 | 7-Sep-21 | 402000.079 | 2048979.111 | 44 - 54 | 72.925 | 25.12 | 47.8 |
| Onsite | Black Creek Aquifer | PW-10R | 7-Sep-21 | 398516.115 | 2051936.585 | 57 - 67 | 75.9 | 26.69 | 49.21 |
| Onsite | Black Creek Aquifer | PW-11 | 7-Sep-21 | 394354.363 | 2052226.721 | 53 - 63 | 73.263 | 31.01 | 42.25 |
| Onsite | Black Creek Aquifer | PW-12 | 7-Sep-21 | 399500.447 | 2047063.51 | 109 - 119 | 150.61 | 56.79 | 93.82 |
| Onsite | Black Creek Aquifer | PW-13 | 7-Sep-21 | 397584.263 | 2048029.184 | 120 - 130 | 149.36 | 30.47 | 118.89 |
| Onsite | Black Creek Aquifer | PW-14 | 7-Sep-21 | 397325.648 | 2050766.359 | 136 - 146 | 147.97 | 60.4 | 87.57 |
| Onsite | Black Creek Aquifer | PW-15R | 7-Sep-21 | 398900.875 | 2051011.753 | 110 - 120 | 136.14 | 58.15 | 77.99 |
| Onsite | Perched Zone | PZ-11 | 7-Sep-21 | 398646.2549 | 2049820.937 | 15-20 | 151.03 | 10.62 | 140.41 |
| Onsite | Perched Zone | PZ-12 | 7-Sep-21 | 399091.19 | 2048978.89 | 15.1-20.1 | 149.89 | 19.8 | 130.09 |
| Onsite | Perched Zone | PZ-13 | 7-Sep-21 | 397707.82 | 2050985.25 | 7.1-12.1 | 148.14 | 11.88 | 136.26 |
| Onsite | Perched Zone | PZ-14 | 7-Sep-21 | 397589.9185 | 2050618.271 | 9.0-14.0 | 148.38 | 11.13 | 137.25 |
| Onsite | Perched Zone | PZ-15 | 7-Sep-21 | 396806.39 | 2050107.5 | 10.2-15.2 | 147.76 | 13.35 | 134.41 |
| Onsite | Perched Zone | PZ-17 | 7-Sep-21 | 396614.815 | 2048872.689 | 21.1-26.1 | 150.08 | DRY | -- |
| Onsite | Perched Zone | PZ-19R | 7-Sep-21 | 397998.663 | 2049919.516 | 16-21 | 150.046 | 13.34 | 136.71 |
| Onsite | Perched Zone | PZ-20R | 7-Sep-21 | 398185.809 | 2049784.598 | 15-20 | 151.29 | 14.73 | 136.56 |
| Onsite | Perched Zone | PZ-21R | 7-Sep-21 | 398445.157 | 2049883.125 | 17-22 | 150.674 | 13.22 | 137.45 |
| Onsite | Black Creek Aquifer | PZ-22 | 7-Sep-21 | 397271.94 | 2052585.34 | 42.5-47.5 | 50.7 | 7.07 | 43.63 |
| Onsite | Perched Zone | PZ-24 | 7-Sep-21 | 396117.94 | 2050744.07 | 11 - 16 | 147.53 | 14.51 | 133.02 |

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**GROUNDWATER ELEVATIONS - Q2 2021**
**Chemours Fayetteville Works, North Carolina**

| Area[1] | Water Bearing Unit[2] | Well ID | Gauging Date | Northing (ft, SPCS NAD83)[3] | Easting (ft, SPCS NAD83)[3] | Screened Interval (ft) | TOC Elevation (ft, NAVD 88)[4] | Depth to Water (ft from TOC) | Water Level (ft, NAVD88) |
|---|---|---|---|---|---|---|---|---|---|
| Onsite | Perched Zone | PZ-25R | 7-Sep-21 | 395971.54 | 2050748.23 | 6 to 16 | 147.51 | 19.02 | 128.49 |
| Onsite | Perched Zone | PZ-26 | 7-Sep-21 | 396059.78 | 2050382.35 | 11 - 16 | 147.7 | 12.88 | 134.82 |
| Onsite | Perched Zone | PZ-27 | 7-Sep-21 | 395922.11 | 2050376.76 | 12 - 17 | 147.17 | 13.3 | 133.87 |
| Onsite | Perched Zone | PZ-28 | 7-Sep-21 | 396304.55 | 2049933.79 | 13 - 18 | 148.64 | 13.11 | 135.53 |
| Onsite | Perched Zone | PZ-29 | 7-Sep-21 | 396377.59 | 2049771.59 | 12 - 18 | 147.74 | 14.52 | 133.22 |
| Onsite | Perched Zone | PZ-31 | 7-Sep-21 | 396428.73 | 2049594.355 | 14 - 19 | 147.999 | 17.89 | 130.11 |
| Onsite | Perched Zone | PZ-32 | 7-Sep-21 | 396418.471 | 2049713.787 | 13 - 18 | 148.471 | 15.42 | 133.05 |
| Onsite | Perched Zone | PZ-33 | 7-Sep-21 | 396308.915 | 2049707.661 | 12.5-17.5 | 146.715 | 14.14 | 132.57 |
| Onsite | Perched Zone | PZ-34 | 7-Sep-21 | 396292.05 | 2049595.039 | 13.5-18.5 | 147.695 | 15.96 | 131.73 |
| Onsite | Perched Zone | PZ-35 | 7-Sep-21 | 398232.643 | 2050020.494 | 13 - 18 | 150.43 | 12.82 | 137.61 |
| Onsite | Perched Zone | PZ-36 | 7-Sep-21 | 396086.17 | 2051331.44 | 5 - 8.5 | 135.2 | 2.24 | 132.96 |
| Onsite | Perched Zone | PZ-37 | 7-Sep-21 | 396042.4 | 2051050.05 | 5 - 8 | 135.56 | 1.92 | 133.64 |
| Onsite | Perched Zone | PZ-38 | 7-Sep-21 | 395970.01 | 2050569.66 | 5 - 9 | 137.34 | DRY | -- |
| Onsite | Perched Zone | PZ-39 | 7-Sep-21 | 395921.87 | 2050238.18 | 5 - 10 | 137.93 | 2.82 | 135.11 |
| Onsite | Perched Zone | PZ-40 | 7-Sep-21 | 395943.02 | 2050031.9 | 5 - 9 | 138.51 | 3.33 | 135.18 |
| Onsite | Perched Zone | PZ-41 | 7-Sep-21 | 395979.29 | 2050048.97 | 5 - 8.5 | 138.13 | 2.65 | 135.48 |
| Onsite | Perched Zone | PZ-42 | 7-Sep-21 | 395961.73 | 2050230.23 | 3 - 7 | 138.17 | 2.94 | 135.23 |
| Onsite | Perched Zone | PZ-43 | 7-Sep-21 | 396011.61 | 2050567.89 | 5 - 9 | 137.06 | 5.79 | 131.27 |
| Onsite | Perched Zone | PZ-44 | 7-Sep-21 | 396082.75 | 2051045.25 | 5 - 7 | 136.26 | 2.25 | 134.01 |
| Onsite | Perched Zone | PZ-45 | 7-Sep-21 | 396124.41 | 2051323.03 | 2 - 4 | 135.69 | 2.46 | 133.23 |
| Onsite | Surficial Aquifer | PZ-L | 7-Sep-21 | 396745.804 | 2048684.008 | 13-28 | 147.86 | 30.02 | 117.84 |
| Onsite | Surficial Aquifer | SMW-01 | 7-Sep-21 | 395297.97 | 2043688.29 | 5.0-15.0 | 150.58 | 12.64 | 137.94 |
| Onsite | Perched Zone | SMW-02 | 7-Sep-21 | 399982.23 | 2050655.91 | 5.0-20.0 | 144.59 | 13.37 | 131.22 |
| Onsite | Surficial Aquifer | SMW-02B | 7-Sep-21 | 399983.75 | 2050654.77 | 43.0-53.0 | 147.93 | 55.98 | 91.95 |
| Onsite | Perched Zone | SMW-03 | 7-Sep-21 | 399779.32 | 2049445.32 | 10.0-20.0 | 151.094 | DRY | -- |
| Onsite | Black Creek Aquifer | SMW-03B | 7-Sep-21 | 399785.752 | 2049421.539 | 72 - 82 | 150.43 | 55.38 | 95.05 |
| Onsite | Perched Zone | SMW-04A | 7-Sep-21 | 399668.71 | 2048387.57 | 19.5-34.5 | 148.09 | 37.12 | 110.97 |
| Onsite | Surficial Aquifer | SMW-04B | 7-Sep-21 | 399666.21 | 2048392.37 | 43.0-53.0 | 147.65 | 44.04 | 103.61 |
| Onsite | Perched Zone | SMW-05 | 7-Sep-21 | 399334.0651 | 2048557.335 | 10.0-20.0 | 148.099 | DRY | -- |
| Onsite | Surficial Aquifer | SMW-05P | 7-Sep-21 | 399391.46 | 2049235.07 | 45.0-60.0 | 149.66 | 42.59 | 107.07 |
| Onsite | Perched Zone | SMW-06 | 7-Sep-21 | 399172.346 | 2048759.478 | 12.0-22.0 | 150.97 | DRY | -- |
| Onsite | Surficial Aquifer | SMW-06B | 7-Sep-21 | 399144.744 | 2048764.939 | 58 - 68 | 150.32 | 45.8 | 104.52 |
| Onsite | Perched Zone | SMW-07 | 7-Sep-21 | 398931.13 | 2048611.74 | 13.0-23.0 | 146.79 | 19.5 | 127.29 |
| Onsite | Perched Zone | SMW-08 | 7-Sep-21 | 399064.972 | 2048468.783 | 21.0-31.0 | 151.017 | DRY | -- |
| Onsite | Surficial Aquifer | SMW-08B | 7-Sep-21 | 399058.325 | 2048478.84 | 58 - 68 | 148.81 | 39.23 | 109.58 |
| Onsite | Surficial Aquifer | SMW-09 | 7-Sep-21 | 401076.889 | 2050017.409 | 52 - 62 | 141.43 | 54.68 | 86.75 |
| Onsite | Surficial Aquifer | SMW-10 | 7-Sep-21 | 402307.305 | 2047923.84 | 39 - 49 | 76.26 | 29.55 | 46.71 |
| Onsite | Surficial Aquifer | SMW-11 | 7-Sep-21 | 401996.154 | 2048975.382 | 13 - 23 | 71.95 | 13.02 | 58.93 |
| Onsite | Black Creek Aquifer | SMW-12 | 7-Sep-21 | 401314.202 | 2051007.222 | 88 - 98 | 118.22 | 83.79 | 34.43 |
| Offsite | Black Creek Aquifer | BLADEN-1D | 6-Jul-21 | 387522.245 | 2050247.399 | 37 - 47 | 76.96 | 12.39 | 64.57 |
| Offsite | Surficial Aquifer | BLADEN-1S | 6-Jul-21 | 387518.967 | 2050233.347 | 5 - 10 | 76.74 | 9.5 | 67.24 |
| Offsite | Black Creek Aquifer | BLADEN-2D | 6-Jul-21 | 368827.094 | 2042878.344 | 70 - 75 | 138.27 | 18.31 | 119.96 |
| Offsite | Surficial Aquifer | BLADEN-2S | 6-Jul-21 | 368821.463 | 2042882.917 | 10 - 20 | 138.04 | 5.02 | 133.02 |

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**GROUNDWATER ELEVATIONS - Q2 2021**
**Chemours Fayetteville Works, North Carolina**

| Area[1] | Water Bearing Unit[2] | Well ID | Gauging Date | Northing (ft, SPCS NAD83)[3] | Easting (ft, SPCS NAD83)[3] | Screened Interval (ft) | TOC Elevation (ft, NAVD 88)[4] | Depth to Water (ft from TOC) | Water Level (ft, NAVD88) |
|---|---|---|---|---|---|---|---|---|---|
| Offsite | Black Creek Aquifer | BLADEN-3D | 6-Jul-21 | 396856.978 | 2059006.562 | 33.75 - 43.75 | 75.52 | 9.87 | 65.65 |
| Offsite | Surficial Aquifer | BLADEN-3S | 6-Jul-21 | 396862.307 | 2059012.932 | 5 - 15 | 74.27 | 8.52 | 65.75 |
| Offsite | Black Creek Aquifer | BLADEN-4D | 6-Jul-21 | 363255.115 | 2087636.869 | 46.75 - 51.75 | 59.66 | 0.98 | 58.68 |
| Offsite | Surficial Aquifer | BLADEN-4S | 6-Jul-21 | 363263.191 | 2087637.461 | 4.75 - 14.75 | 59.68 | 5.53 | 54.15 |
| Offsite | Black Creek Aquifer | CUMBERLAND-1D | 6-Jul-21 | 431459.947 | 2011071.39 | 40 - 50 | 174.6 | 5.27 | 169.33 |
| Offsite | Surficial Aquifer | CUMBERLAND-1S | 6-Jul-21 | 431459.947 | 2011071.39 | 15 - 25 | 174.73 | 4.98 | 169.75 |
| Offsite | Black Creek Aquifer | CUMBERLAND-2D | 6-Jul-21 | 449987.54 | 2074019.139 | 47 - 57 | 129.23 | 3.62 | 125.61 |
| Offsite | Surficial Aquifer | CUMBERLAND-2S | 6-Jul-21 | 449979.1 | 2074020.858 | 7 - 17 | 129.06 | 3.58 | 125.48 |
| Offsite | Black Creek Aquifer | CUMBERLAND-3D | 6-Jul-21 | 423248.115 | 2060409.157 | 22 - 27 | 78.79 | 7.31 | 71.48 |
| Offsite | Surficial Aquifer | CUMBERLAND-3S | 6-Jul-21 | 423254.641 | 2060413.302 | 9 - 14 | 79.063 | 7.59 | 71.47 |
| Offsite | Black Creek Aquifer | CUMBERLAND-4D | 6-Jul-21 | 413095.774 | 2078249.953 | 57 - 67 | 119.22 | 12.96 | 106.26 |
| Offsite | Surficial Aquifer | CUMBERLAND-4S | 6-Jul-21 | 413086.626 | 2078255.528 | 10 - 20 | 119.362 | 7.01 | 112.35 |
| Offsite | Black Creek Aquifer | CUMBERLAND-5D | 6-Jul-21 | 405619.17 | 2138238.586 | 52 - 57 | 106.67 | 7.65 | 99.02 |
| Offsite | Surficial Aquifer | CUMBERLAND-5S | 6-Jul-21 | 405623.274 | 2138233.369 | 14 - 24 | 106.65 | 2.19 | 104.46 |
| Offsite | Black Creek Aquifer | ROBESON-1D | 6-Jul-21 | 381416.282 | 2020158.933 | 42.75 - 52.75 | 156.36 | 12.39 | 143.97 |
| Offsite | Surficial Aquifer | ROBESON-1S | 6-Jul-21 | 381408.19 | 2020156.855 | 17 - 27 | 156.66 | 9.5 | 147.16 |
| Offsite | Black Creek Aquifer | BLADEN-1D | 10-Aug-21 | 387522.245 | 2050247.399 | 37 - 47 | 76.96 | 19.56 | 57.4 |
| Offsite | Surficial Aquifer | BLADEN-1S | 10-Aug-21 | 387518.967 | 2050233.347 | 5 - 10 | 76.74 | 9.94 | 66.8 |
| Offsite | Black Creek Aquifer | BLADEN-2D | 10-Aug-21 | 368827.094 | 2042878.344 | 70 - 75 | 138.27 | 18.37 | 119.9 |
| Offsite | Surficial Aquifer | BLADEN-2S | 10-Aug-21 | 368821.463 | 2042882.917 | 10 - 20 | 138.04 | 4.48 | 133.56 |
| Offsite | Black Creek Aquifer | BLADEN-3D | 10-Aug-21 | 396856.978 | 2059006.562 | 33.75 - 43.75 | 75.52 | 9.2 | 66.32 |
| Offsite | Surficial Aquifer | BLADEN-3S | 10-Aug-21 | 396862.307 | 2059012.932 | 5 - 15 | 74.27 | 7.94 | 66.33 |
| Offsite | Black Creek Aquifer | BLADEN-4D | 10-Aug-21 | 363255.115 | 2087636.869 | 46.75 - 51.75 | 59.66 | 0.6 | 59.06 |
| Offsite | Surficial Aquifer | BLADEN-4S | 10-Aug-21 | 363263.191 | 2087637.461 | 4.75 - 14.75 | 59.68 | 4.46 | 55.22 |
| Offsite | Black Creek Aquifer | CUMBERLAND-1D | 10-Aug-21 | 431459.947 | 2011071.39 | 40 - 50 | 174.6 | 5.95 | 168.65 |
| Offsite | Surficial Aquifer | CUMBERLAND-1S | 10-Aug-21 | 431459.947 | 2011071.39 | 15 - 25 | 174.73 | 5.74 | 168.99 |
| Offsite | Black Creek Aquifer | CUMBERLAND-2D | 10-Aug-21 | 449987.54 | 2074019.139 | 47 - 57 | 129.23 | 4.68 | 124.55 |
| Offsite | Surficial Aquifer | CUMBERLAND-2S | 10-Aug-21 | 449979.1 | 2074020.858 | 7 - 17 | 129.06 | 5.11 | 123.95 |
| Offsite | Black Creek Aquifer | CUMBERLAND-3D | 10-Aug-21 | 423248.115 | 2060409.157 | 22 - 27 | 78.79 | 7.52 | 71.27 |
| Offsite | Surficial Aquifer | CUMBERLAND-3S | 10-Aug-21 | 423254.641 | 2060413.302 | 9 - 14 | 79.063 | 8.01 | 71.05 |
| Offsite | Black Creek Aquifer | CUMBERLAND-4D | 10-Aug-21 | 413095.774 | 2078249.953 | 57 - 67 | 119.22 | 12.32 | 106.9 |
| Offsite | Surficial Aquifer | CUMBERLAND-4S | 10-Aug-21 | 413086.626 | 2078255.528 | 10 - 20 | 119.362 | 6.65 | 112.71 |
| Offsite | Black Creek Aquifer | CUMBERLAND-5D | 10-Aug-21 | 405619.17 | 2138238.586 | 52 - 57 | 106.67 | 7.41 | 99.26 |
| Offsite | Surficial Aquifer | CUMBERLAND-5S | 10-Aug-21 | 405623.274 | 2138233.369 | 14 - 24 | 106.65 | 2.12 | 104.53 |
| Offsite | Black Creek Aquifer | ROBESON-1D | 10-Aug-21 | 381416.282 | 2020158.933 | 42.75 - 52.75 | 156.36 | 9.63 | 146.73 |
| Offsite | Surficial Aquifer | ROBESON-1S | 10-Aug-21 | 381408.19 | 2020156.855 | 17 - 27 | 156.66 | 12.45 | 144.21 |
| Offsite | Black Creek Aquifer | BLADEN-1D | 7-Sep-21 | 387522.245 | 2050247.399 | 37 - 47 | 76.96 | 19.68 | 57.28 |
| Offsite | Surficial Aquifer | BLADEN-1S | 7-Sep-21 | 387518.967 | 2050233.347 | 5 - 10 | 76.74 | DRY | -- |
| Offsite | Black Creek Aquifer | BLADEN-2D | 7-Sep-21 | 368827.094 | 2042878.344 | 70 - 75 | 138.27 | 19.45 | 118.82 |
| Offsite | Surficial Aquifer | BLADEN-2S | 7-Sep-21 | 368821.463 | 2042882.917 | 10 - 20 | 138.04 | 5.17 | 132.87 |
| Offsite | Black Creek Aquifer | BLADEN-3D | 7-Sep-21 | 396856.978 | 2059006.562 | 33.75 - 43.75 | 75.52 | 9.93 | 65.59 |
| Offsite | Surficial Aquifer | BLADEN-3S | 7-Sep-21 | 396862.307 | 2059012.932 | 5 - 15 | 74.27 | 8.84 | 65.43 |
| Offsite | Black Creek Aquifer | BLADEN-4D | 7-Sep-21 | 363255.115 | 2087636.869 | 46.75 - 51.75 | 59.66 | 1 | 58.66 |

**TABLE A6**
**GROUNDWATER ELEVATIONS - Q2 2021**
**Chemours Fayetteville Works, North Carolina**

| Area[1] | Water Bearing Unit[2] | Well ID | Gauging Date | Northing (ft, SPCS NAD83)[3] | Easting (ft, SPCS NAD83)[3] | Screened Interval (ft) | TOC Elevation (ft, NAVD 88)[4] | Depth to Water (ft from TOC) | Water Level (ft, NAVD88) |
|---|---|---|---|---|---|---|---|---|---|
| Offsite | Surficial Aquifer | BLADEN-4S | 7-Sep-21 | 363263.191 | 2087637.461 | 4.75 - 14.75 | 59.68 | 5.53 | 54.15 |
| Offsite | Black Creek Aquifer | CUMBERLAND-1D | 7-Sep-21 | 431459.947 | 2011071.39 | 40 - 50 | 174.6 | 6.95 | 167.65 |
| Offsite | Surficial Aquifer | CUMBERLAND-1S | 7-Sep-21 | 431459.947 | 2011071.39 | 15 - 25 | 174.73 | 6.8 | 167.93 |
| Offsite | Black Creek Aquifer | CUMBERLAND-2D | 7-Sep-21 | 449987.54 | 2074019.139 | 47 - 57 | 129.23 | 5.58 | 123.65 |
| Offsite | Surficial Aquifer | CUMBERLAND-2S | 7-Sep-21 | 449979.1 | 2074020.858 | 7 - 17 | 129.06 | 6.13 | 122.93 |
| Offsite | Black Creek Aquifer | CUMBERLAND-3D | 7-Sep-21 | 423248.115 | 2060409.157 | 22 - 27 | 78.79 | 8.06 | 70.73 |
| Offsite | Surficial Aquifer | CUMBERLAND-3S | 7-Sep-21 | 423254.641 | 2060413.302 | 9 - 14 | 79.063 | 8.5 | 70.56 |
| Offsite | Black Creek Aquifer | CUMBERLAND-4D | 7-Sep-21 | 413095.774 | 2078249.953 | 57 - 67 | 119.22 | 13.13 | 106.09 |
| Offsite | Surficial Aquifer | CUMBERLAND-4S | 7-Sep-21 | 413086.626 | 2078255.528 | 10 - 20 | 119.362 | 7.27 | 112.09 |
| Offsite | Black Creek Aquifer | CUMBERLAND-5D | 7-Sep-21 | 405619.17 | 2138238.586 | 52 - 57 | 106.67 | 7.48 | 99.19 |
| Offsite | Surficial Aquifer | CUMBERLAND-5S | 7-Sep-21 | 405623.274 | 2138233.369 | 14 - 24 | 106.65 | 3.55 | 103.1 |
| Offsite | Black Creek Aquifer | ROBESON-1D | 7-Sep-21 | 381416.282 | 2020158.933 | 42.75 - 52.75 | 156.36 | 14.23 | 142.13 |
| Offsite | Surficial Aquifer | ROBESON-1S | 7-Sep-21 | 381408.19 | 2020156.855 | 17 - 27 | 156.66 | 12.03 | 144.63 |

***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.
-- - not calculated because the water level was not measured or the well was dry.
ft - feet
NAVD88 - North American Vertical Datum of 1988
NM - Not measured; water level below the pump, Black Creek Pumping Well
SPCS NAD83 - State Plane Coordinate System North American Datum 1983
TOC - top of casing

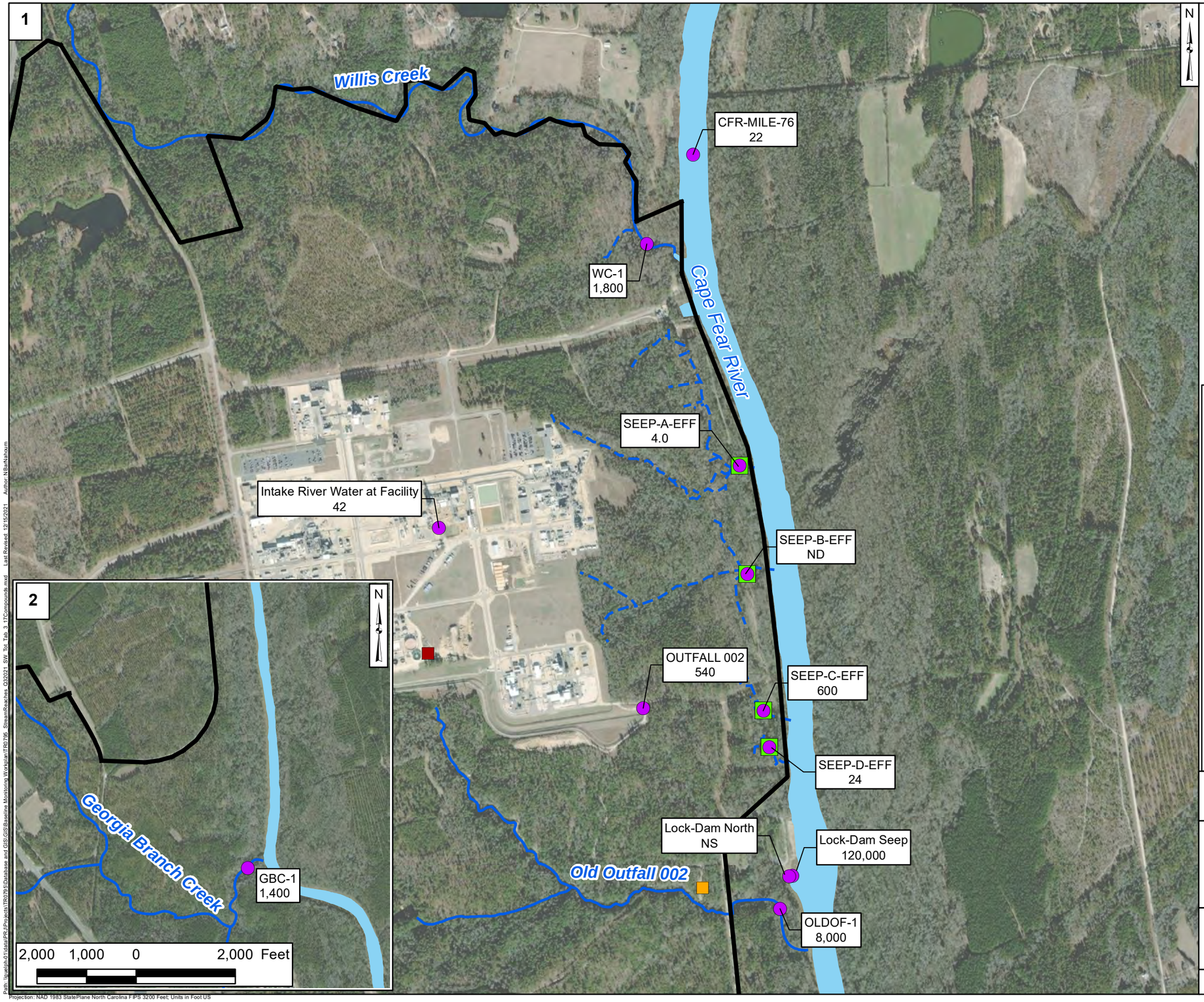
**TABLE A7**
**GROUNDWATER FIELD PARAMETERS**
**Chemours Fayetteville Works, North Carolina**

| Location | Date | Time | pH (S.U.) | Dissolved Oxygen (mg/L) | Oxidation Reduction Potential (mV) | Turbidity (NTU) | Specific Conductance (µS/cm) | Temperature (°C) |
|---|---|---|---|---|---|---|---|---|
| LTW-01 | 7/29/2021 | 14:45 | 3.0 | 0.1 | 356 | 5.20 | 112 | 21.3 |
| LTW-02 | 7/29/2021 | 13:35 | 4.5 | 0.03 | 117 | 3.7 | 55 | 22.7 |
| LTW-03 | 7/26/2021 | 11:50 | 4.6 | 0.09 | 244 | 9.3 | 99 | 20.6 |
| LTW-04 | 7/30/2021 | 13:50 | 4.4 | 0.1 | 251 | 7.0 | 100 | 23.8 |
| LTW-05 | 7/30/2021 | 15:10 | 4.2 | 0.1 | 135 | 16.5 | 124 | 24.3 |
| PIW-1D | 7/16/2021 | 14:00 | 3.3 | 0.11 | 358 | 15.4 | 167 | 23.1 |
| PIW-1S | 7/14/2021 | 17:05 | 4.7 | 3.8 | 217 | 12.5 | 459 | 25.2 |
| PIW-3D | 7/23/2021 | 12:52 | 4.1 | 0.1 | 97 | 2.9 | 92 | 19.7 |
| PIW-7D | 7/16/2021 | 13:10 | 4.2 | 0.0 | 142 | 9.48 | 93 | 22.6 |
| PIW-7S | 7/16/2021 | 13:53 | 5.5 | 0.05 | 24 | 0.0 | 120 | 22.5 |
| PW-04 | 7/22/2021 | 16:25 | 3.3 | 0.3 | 370 | 7.0 | 119 | 24.8 |
| PW-06 | 7/30/2021 | 17:20 | 4.3 | 3.2 | 233 | 1.62 | 63 | 21.9 |
| PW-07 | 7/21/2021 | 16:45 | 4.9 | 8.2 | 282 | 10.83 | 45 | 29.5 |
| PW-09[1] | 7/9/2021 | 12:10 | 6.8 | 1.0 | -97 | 65.9 | 94 | 18.6 |
| PW-11 | 7/23/2021 | 11:35 | 3.8 | 4.5 | 237 | 0.8 | 429 | 23.1 |
| PZ-22 | 7/23/2021 | 11:25 | 4.4 | 0.0 | 192 | 0.96 | 79 | 20.2 |
| SMW-10 | 7/30/2021 | 16:45 | 5.1 | 0.08 | 8 | 4.0 | 86 | 22.6 |
| SMW-11 | 7/9/2021 | 13:10 | 4.2 | 5.0 | 356 | 8.26 | 49 | 19.2 |
| SMW-12 | 7/7/2021 | 12:50 | 3.4 | 1.8 | 265 | 3.6 | 226 | 19.8 |
| LTW-01 | 8/31/2021 | 14:25 | 3.9 | 0.1 | 342 | 1.78 | 125 | 20.7 |
| LTW-02 | 8/31/2021 | 13:25 | 4.9 | 0.04 | 135 | 14.69 | 75 | 22.5 |
| LTW-03 | 8/31/2021 | 11:10 | 4.2 | 0.1 | 209 | 7 | 98 | 19.5 |
| LTW-04 | 8/30/2021 | 15:10 | 4.7 | 0.10 | 168 | 14.9 | 73 | 28.4 |
| LTW-05 | 8/26/2021 | 16:10 | 4.3 | 0.10 | 143 | 6.6 | 110 | 22.8 |
| PIW-1D | 8/26/2021 | 13:00 | 3.4 | 0.07 | 332 | 11.80 | 167 | 21.3 |
| PIW-1S | 8/26/2021 | 12:10 | 4.2 | 2.23 | 316 | 12.40 | 198 | 25.8 |
| PIW-3D | 8/31/2021 | 14:00 | 4.1 | 0.09 | 135 | 5.6 | 76 | 20.2 |
| PIW-7D | 8/30/2021 | 12:35 | 4.3 | 0.05 | 99 | 5.1 | 87 | 21.6 |
| PIW-7S | 8/30/2021 | 11:40 | 5.6 | 0.06 | -9 | 2 | 125 | 21.0 |
| PW-04 | 8/25/2021 | 14:20 | 3.8 | 0.3 | 323 | 3.1 | 110 | 30.5 |
| PW-06 | 8/13/2021 | 11:20 | 3.8 | 3.2 | 205 | 1.80 | 62 | 22.3 |

**TABLE A7**
**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) |
|---|---|---|---|---|---|---|---|---|
| PW-07[1] | 8/27/2021 | 12:50 | 5.1 | 8.2 | 265 | 76.3 | 76 | 27.1 |
| PW-09[1] | 8/12/2021 | 16:35 | 6.6 | 0.28 | -49 | 49 | 83 | 18.7 |
| PZ-22 | 8/30/2021 | 14:10 | 4.5 | 0.06 | 100 | 3.4 | 69 | 22.2 |
| SMW-10 | 8/25/2021 | 13:40 | 4.7 | 0.12 | 105 | 16.58 | 87 | 22.4 |
| SMW-11 | 8/12/2021 | 11:35 | 3.7 | 4.6 | 380 | 2.57 | 50 | 20.7 |
| SMW-12 | 8/25/2021 | 15:30 | 3.4 | 0.13 | 108 | 1.6 | 239 | 20.1 |
| LTW-01 | 9/28/2021 | 16:30 | 3.6 | 0.3 | 265 | 4.0 | 121 | 20.1 |
| LTW-02 | 9/30/2021 | 10:35 | 4.9 | 0.05 | 76 | 0.2 | 61 | 18.8 |
| LTW-03 | 9/28/2021 | 11:45 | 4.5 | 0.05 | 61 | 0.48 | 76 | 18.4 |
| LTW-04 | 9/28/2021 | 15:45 | 4.6 | 0.07 | 93 | 1.0 | 65 | 24.4 |
| LTW-05 | 9/29/2021 | 11:11 | 4.1 | 0.06 | 69 | 4 | 94 | 19.4 |
| PIW-1D | 9/20/2021 | 15:18 | 3.6 | 0.02 | 205 | 1 | 129 | 19.5 |
| PIW-1S | 9/27/2021 | 10:50 | 4.8 | 0.6 | 160 | 9.2 | 340 | 21.9 |
| PIW-3D | 9/29/2021 | 10:40 | 4.3 | 0.08 | 47 | 1 | 84 | 18.8 |
| PIW-7D | 9/29/2021 | 15:00 | 4.0 | 0.03 | 61 | 0.73 | 74 | 20.4 |
| PIW-7S | 9/29/2021 | 11:25 | 5.7 | 0.03 | 8 | 0.6 | 104 | 22.9 |
| PW-04 | 9/28/2021 | 13:25 | 3.6 | 0.2 | 86 | 4.9 | 263 | 28.4 |
| PW-06 | 9/20/2021 | 16:42 | 4.4 | 2.9 | 136 | 0.6 | 38 | 21.2 |
| PW-07[1] | 9/28/2021 | 12:40 | 4.6 | 7.9 | 231 | 2 | 29 | 25.2 |
| PW-09[1] | 9/29/2021 | 16:25 | 6.7 | 1.2 | -38 | 53 | 76 | 18.0 |
| PZ-22 | 9/29/2021 | 16:10 | 4.5 | 0.03 | 54 | 0.94 | 76 | 20.6 |
| SMW-10 | 9/22/2021 | 16:15 | 5.2 | 0.6 | 62 | 4.0 | 113 | 18.9 |
| SMW-11 | 9/22/2021 | 14:05 | 4.2 | 3.3 | 238 | 0 | 58 | 21.2 |
| SMW-12 | 9/22/2021 | 12:50 | 3.7 | 0.09 | 49 | 0.2 | 317 | 19.5 |

***Notes:***
1 - samples collected at PW-09 in all months and the sample collected at PW-07 in August were field filtered before lab analysis due to high turbidity.
°C - degrees Celsius
mg/L - milligrams per liter
µS/cm - microsiemens per centimeter
mV- millivolts
NTU - nephelometric Turbidity Unit
S.U. - Standard Units

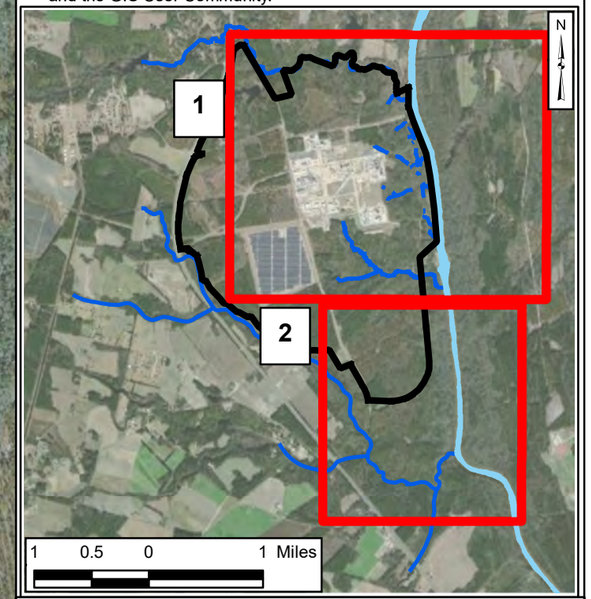



## Legend

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

OUTFALL 002 — Location Name
540 — Total Table 3+ Concentration (ng/L)

Notes:
1. Lock and Dam North was not sampled (NS) during the July 2021 event.
2. All results are in nanograms per liter (ng/L).
3. 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.
4. Non-detect values were not included in sum of total Table 3+ results.
5. Total Table 3+ results include J-qualified data.
6. 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.
7. Basemap sources: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.




1,000 500 0 1,000 Feet

**Total Table 3+ Concentrations (17 Compounds) in Surface Water - July 2021**

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

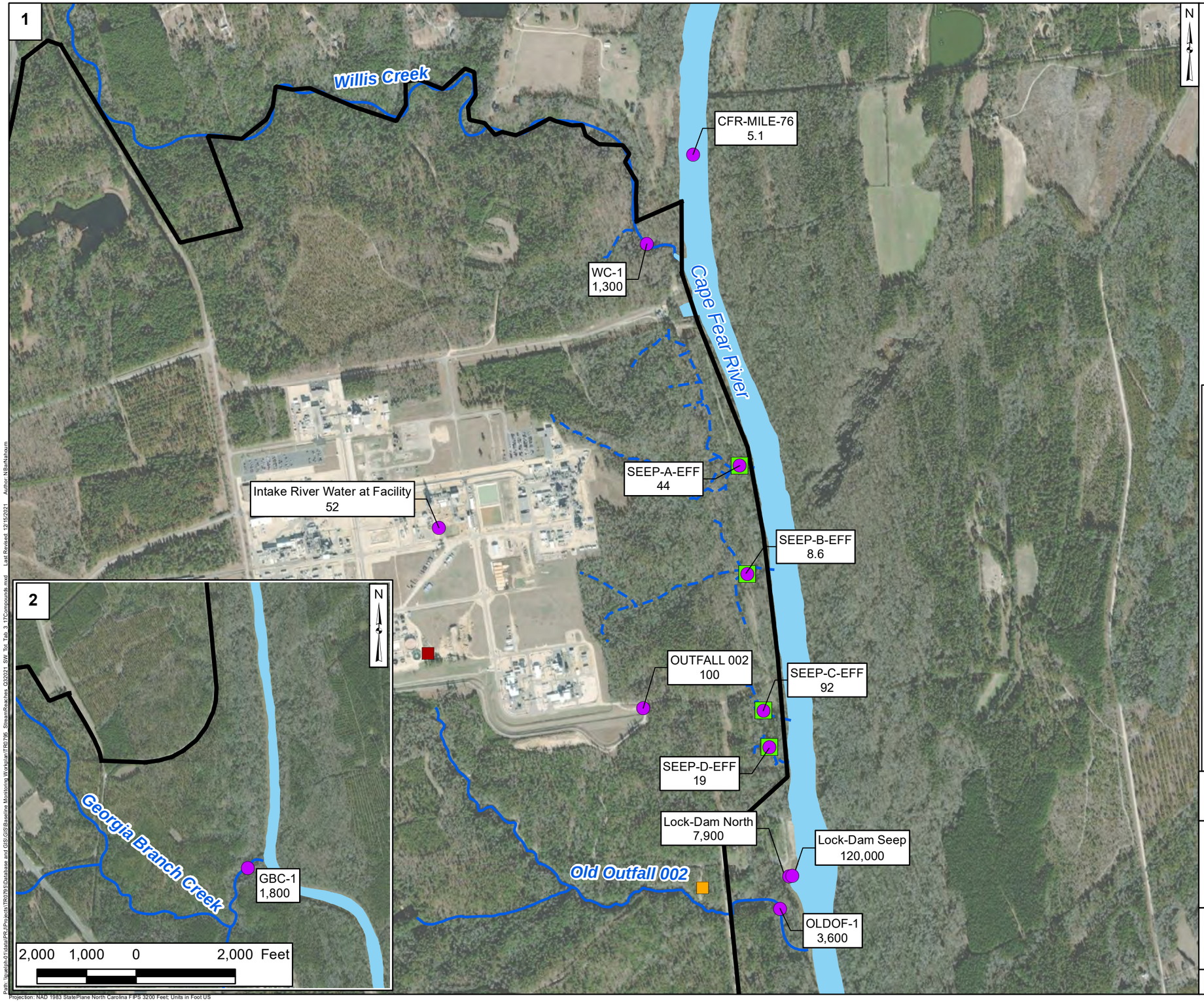
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

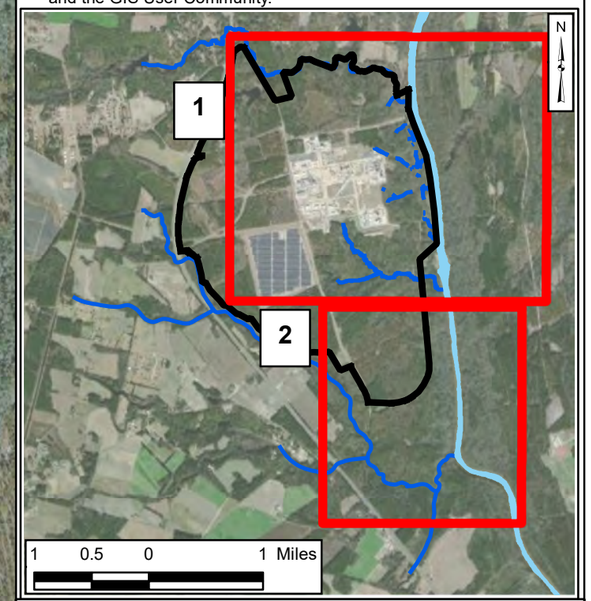
Raleigh | December 2021

Figure **A1-1**

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

Path: \\raleigh-01\data\PRJ\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_StreamReaches_Q32021_SW_Tot_Tab_3_17Compounds.mxd Last Revised: 12/15/2021 Author: NBaeNahoum




## Legend

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

OUTFALL 002 ← Location Name
100 ← Total Table 3+ Concentration (ng/L)

Notes:
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.

1,000 500 0 1,000 Feet

**Total Table 3+ Concentrations (17 Compounds) in Surface Water - August 2021**

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

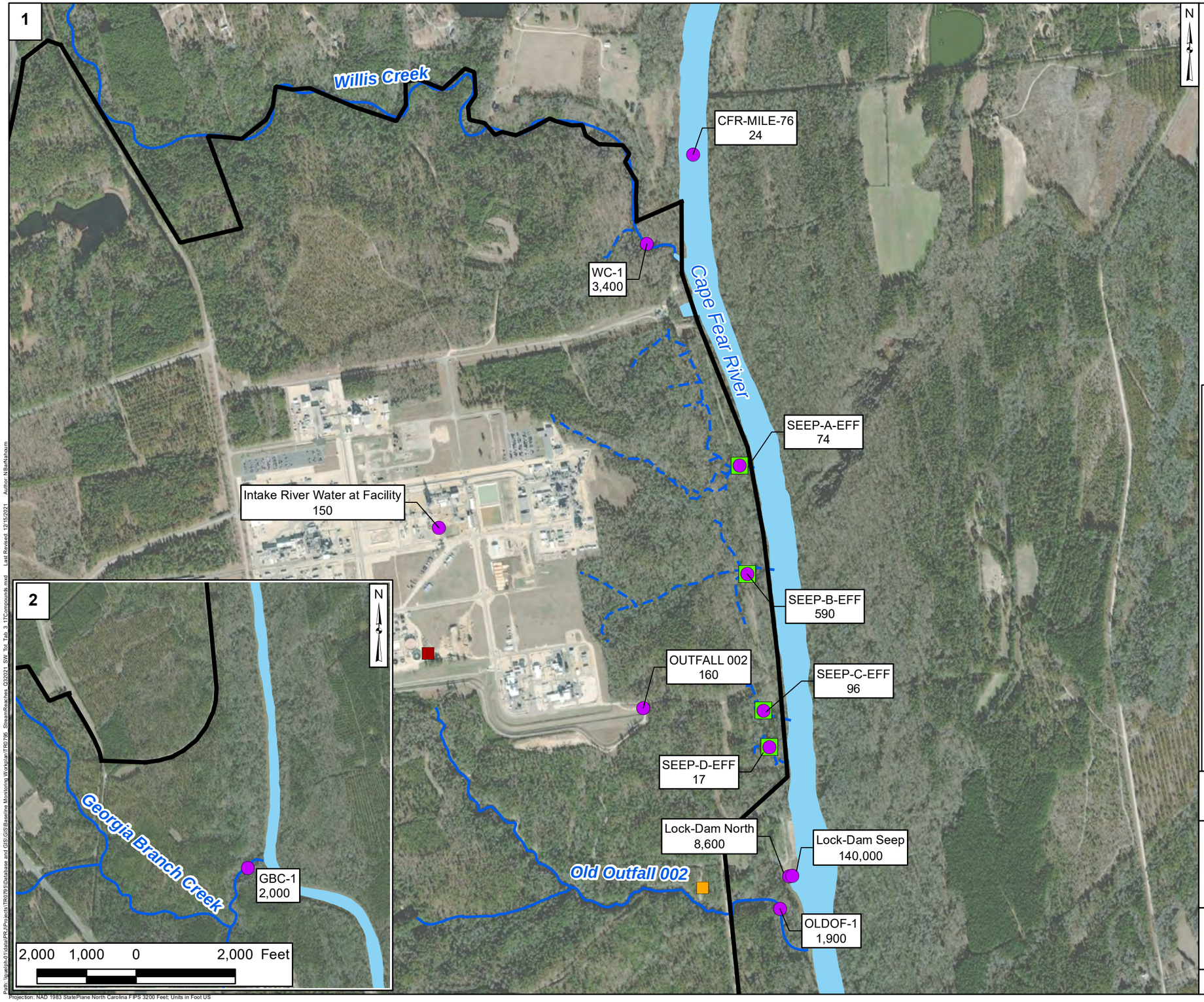
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | December 2021

Figure **A1-2**

Path: \\raleigh-01\data\PRJ\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_StreamReaches_Q32021_SW_Tot_Tab_3_17Compounds.mxd Last Revised: 12/15/2021 Author: NBaeNahoum

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

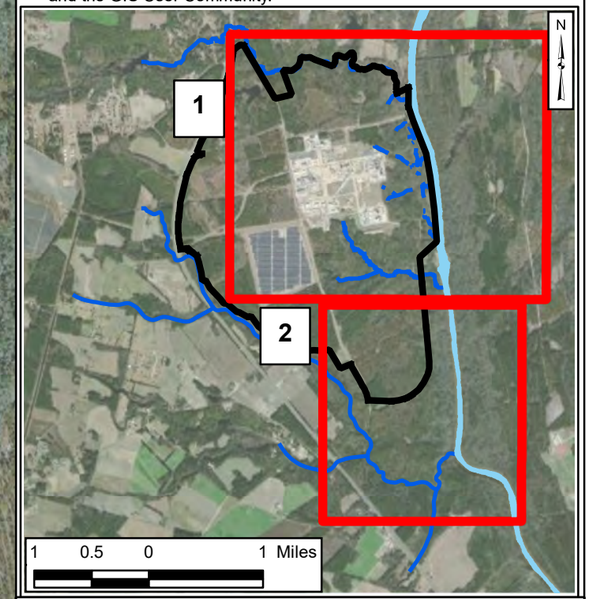



Legend

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

OUTFALL 002 (Location Name)
160 (Total Table 3+ Concentration (ng/L))

Notes:
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.




1,000 500 0 1,000 Feet

**Total Table 3+ Concentrations (17 Compounds) in Surface Water - September 2021**

Chemours Fayetteville Works, North Carolina

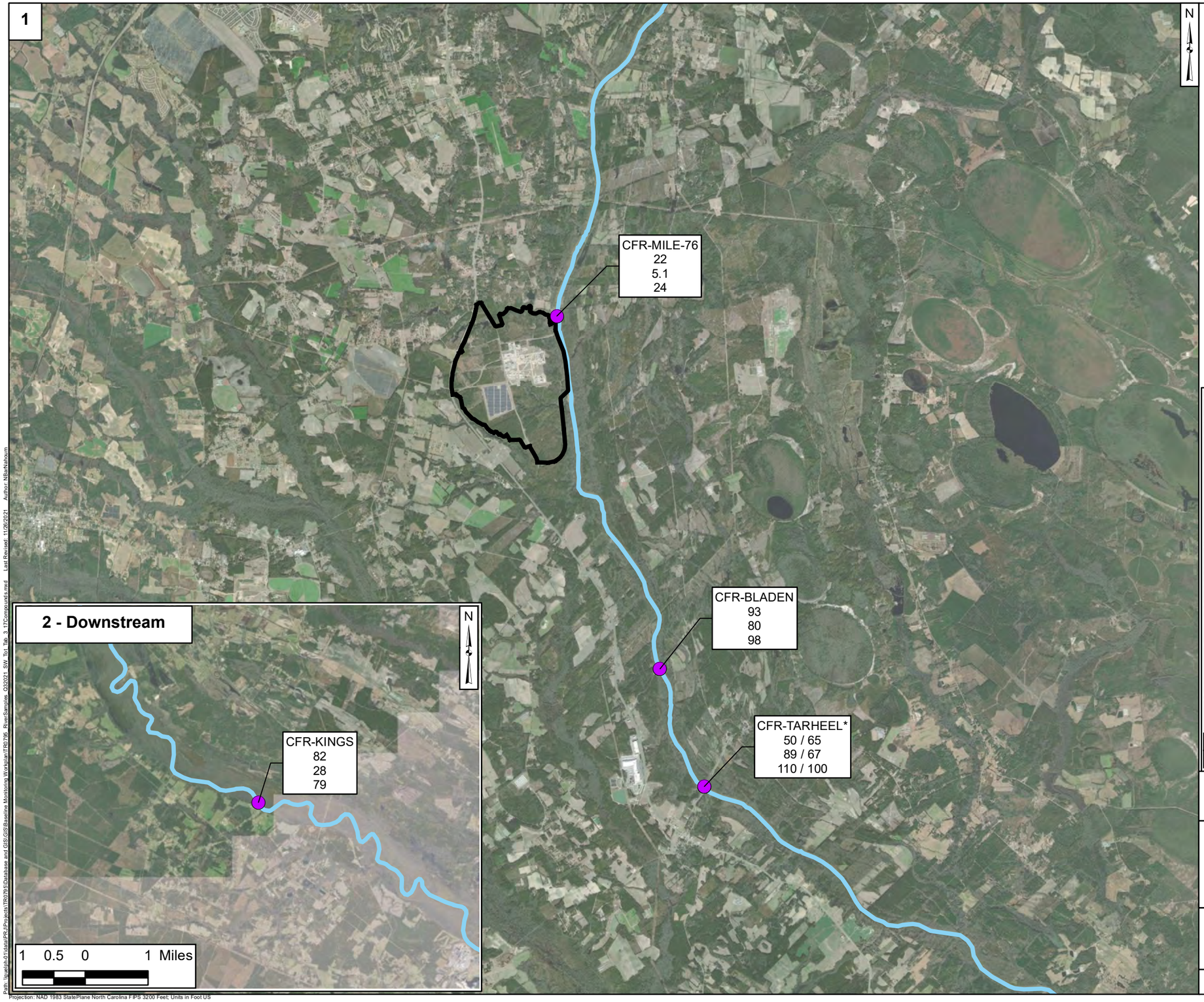
Geosyntec consultants

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

Raleigh | December 2021

Figure **A1-3**

Author: NBarNahoum Last Revised: 12/15/2021 Path: \\raleigh-01\data\PRJ\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_StreamReaches_Q32021_SW_Tot_Tab_3_17Compounds.mxd
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet; Units in Foot US




Legend

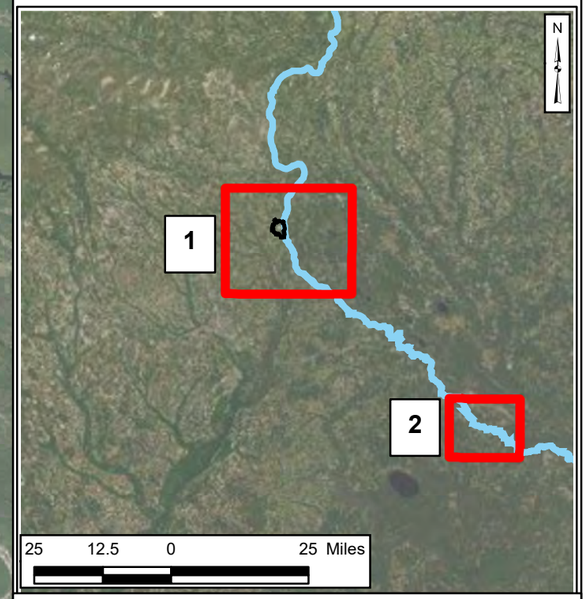
- Sample Location
- Cape Fear River
- Site Boundary

CFR-BLADEN
93 — July 2021
80 — August 2021
98 — September 2021

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 1 0 2 Miles

**Cape Fear River Total Table 3+ Concentrations (17 Compounds) - Q3 2021**

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh | December 2021

Figure **A2**

Path: \\gelpfs-01\data\PRJ\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_RiverSamples_Q32021_SW_Tot_Tab_3.17Compounds.mxd Last Revised: 11/26/2021 Author: NBarkhahoum

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

1

N

CFR-MILE-76
3.4 J
2.3 J
<2

CFR-BLADEN
15
13
11

CFR-TARHEEL*
5.5 / 9.3
15 J / 13 J
14 / 13

2 - Downstream

N

CFR-KINGS
12
4.2
9

1 0.5 0 1 Miles

Legend

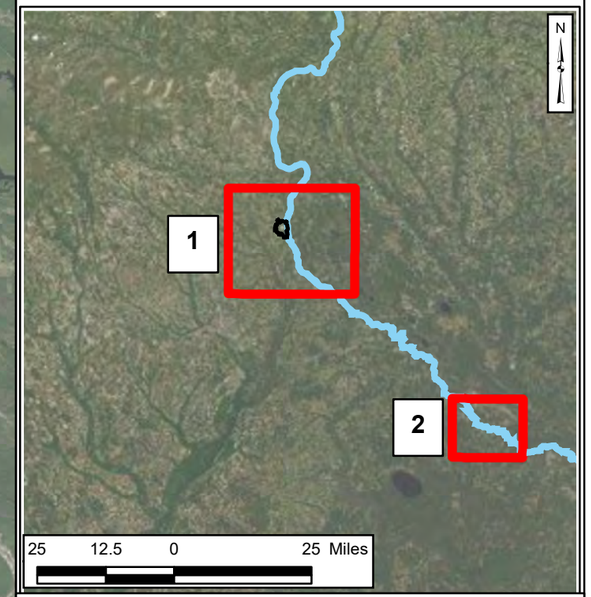
Sample Location

Cape Fear River

Site Boundary

CFR-BLADEN — Location Name
15 — July 2021
13 — August 2021
11 — September 2021

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.
UJ - Analyte not detected. Reporting limit may not be accurate or precise.
1. All results are in nanograms per liter.
2. Basemap sources: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.




2 1 0 2 Miles

**Cape Fear River HFPO-DA Concentrations - Q3 2021**

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

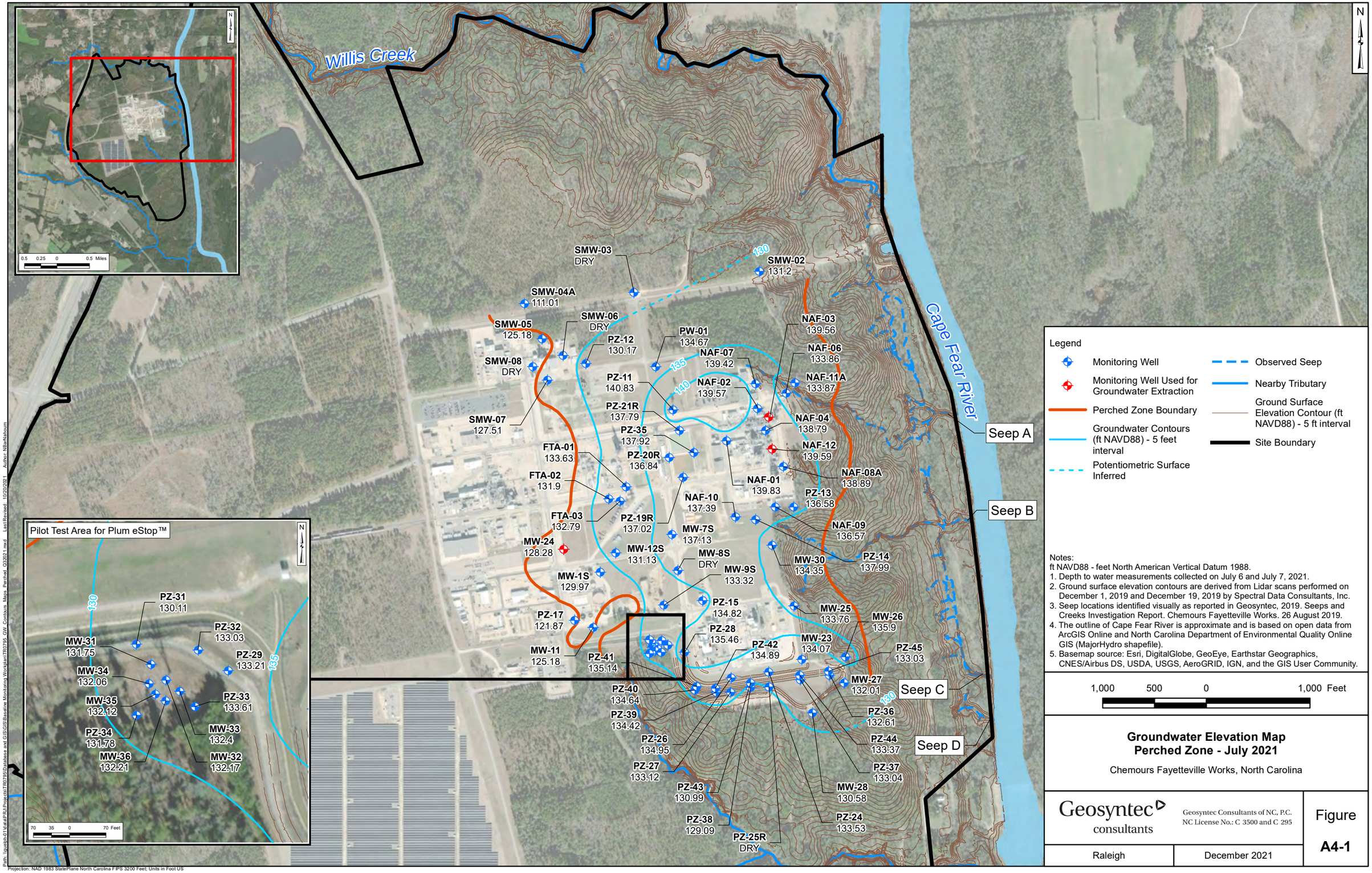
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | December 2021

Figure
**A3**

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

Path: \\vuatch-d1\data\PR-I\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Worksite\TR0795_RiverSamples_032021_SW_HFPODA.mxd Last Revised: 11/29/2021 Author: NBuchan




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 July 6 and July 7, 2021.
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.

1,000 500 0 1,000 Feet

# Groundwater Elevation Map Perched Zone - July 2021

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

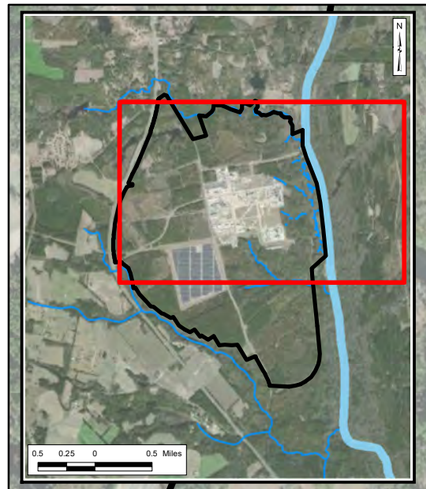
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | December 2021

Figure A4-1

Path: \\qualtrh-01\vol4\PRJ\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795 GW Contours Maps Perched Q32021.mxd Last Revised: 10/20/2021 Author: NBarhJahoum

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




Willis Creek

SMW-10
46.76

SMW-11
59.07

INSITU-02
DRY

INSITU-01
83.35

MW-19D*
109.48

SMW-09
87.3

MW-20D
91.07

MW-18D
89.29

SMW-02B
92.42

PW-02
91.76

SMW-04B
103.95

MW-21D
107.87

SMW-05P
107.34

SMW-06B
104.73

NAF-11B
95.28

MW-22D
115.45

SMW-08B
109.89

MW-15DRR
104.52

PIW-5S
61.21

MW-17D
119.38

MW-16D
114.64

NAF-08B
95.16

Cape Fear River

Seep A

Seep B

PW-03
106.2

MW-13D
100.1

MW-14D
111.15

PZ-L
117.82

PIW-16S
134.64

PIW-9S
50.95

PW-05
123.37

Seep C

Seep D

SMW-01
138.01

PIW-10S
57.76

PW-04
72.03

60 70 80 90 100 110 120 130 140 150 160 170

N

Legend

- Monitoring Well
- Groundwater Contours (ft NAVD88) - 10 feet interval
- Potentiometric Surface Inferred
- Inferred Groundwater Flow Direction
- Observed Seep
- Nearby Tributary
- Ground Surface Elevation Contour (ft NAVD88) - 5 ft interval
- Site Boundary

Notes:
ft NAVD88 - feet North American Vertical Datum 1988.
* - Erroneous water level omitted from groundwater contours.
1. Depth to water measurements collected on July 6 and July 7, 2021.
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.

1,000 500 0 1,000 Feet

**Groundwater Elevation Map**
**Surficial Aquifer - July 2021**

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

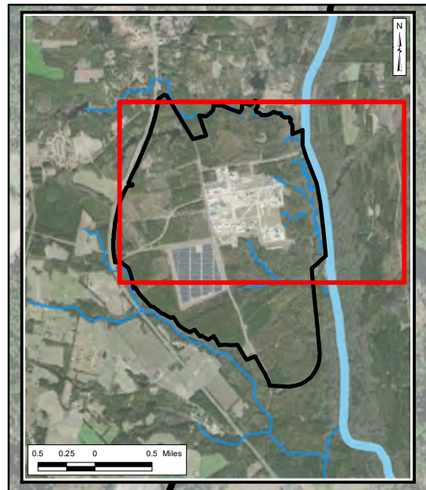
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | December 2021

Figure
**A4-2**

Path: \\gultph-01\raf\PRJ\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_GW_Contours_Mast_Surficial_Q32021.mxd Last Revised: 10/19/2021 Author: NBarNahoum

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




Willis Creek

PW-09 47.88
PIW-11 45.32
PIW-12 34.64
PIW-13 34.97
SMW-12 34.76
PIW-14 35.8
PIW-15 33.8
PIW-1S 32.83
PIW-1D 33.65
PIW-3D 36.22
LTW-01 36.39
OW-1 60.53
OW-10 60.28
EW-1 60.05
PIW-2D 60.18
SMW-03B 95.5
BCA-01 86.98
PW-12 94.17
PW-15R 78.17
LTW-02 42.38
PIW-4D 42.71
BCA-03R 102.58
EW-4 50.44
PW-10R 49.15
OW-2 50.16
OW-3 49.96
LTW-03 39.16
PIW-6S 39.28
PW-13 119.56
PZ-22 43.6
LTW-04 42.85
PW-14 86.36
EW-5 45.38
OW-7 45.34
PIW-7S 42.82
PIW-7D 43.65
OW-8 44.57
LTW-05 41.62
PIW-16D 131.09
PIW-8D 41.65
BCA-02 75.5
PIW-9D 42.16
EW-2 45.29
OW-6 42.81
BCA-04 123.89
PIW-10DR 62.13
EW-3 62
OW-4 62.01
OW-5 62.21
OW-9 62.17
PW-11 42.5

50 60 70 80 90 40 30 20 10

Cape Fear River

Seep A
Seep B
Seep C
Seep D

N

Legend

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

Notes:
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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.

1,000 500 0 1,000 Feet

# Groundwater Elevation Map
# Black Creek Aquifer - July 2021

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

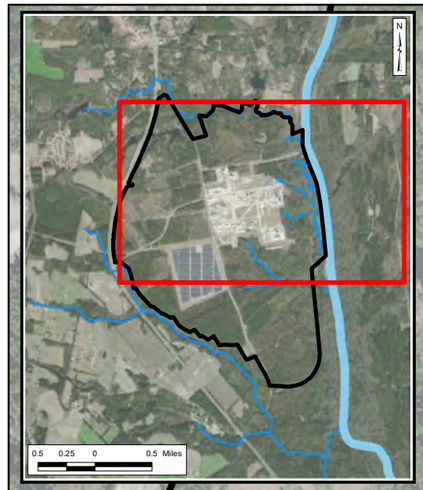
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | December 2021

Figure
A4-3

Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_GW_Contours_Maps_BlackCreek_Q32021.mxd Last Revised: 12/15/2021 Author: NBarNahoum

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




Willis Creek

Cape Fear River

Seep A

Seep B

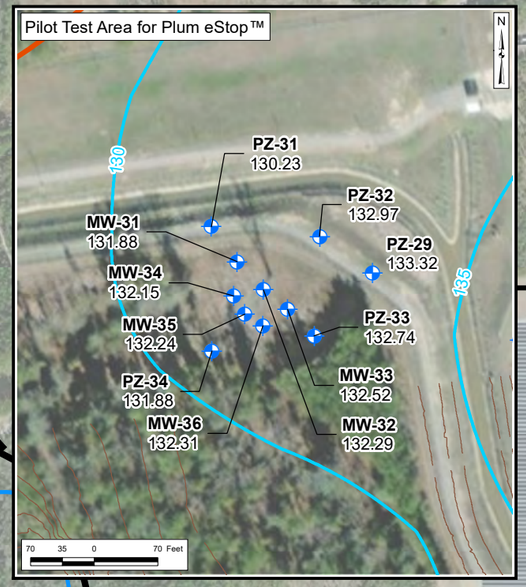
Seep C

Seep D

SMW-03 DRY
SMW-02 132.18
SMW-04A 110.97
SMW-06 DRY
SMW-05 DRY
PZ-12 130.63
PW-01 135.26
NAF-03 139.71
NAF-07 139.75
NAF-06 133.91
SMW-08 DRY
PZ-11 141.35
NAF-02 139.85
NAF-11A 134.73
PZ-21R 138.18
NAF-04 140.02
SMW-07 127.43
PZ-35 138.12
FTA-01 133.52
PZ-20R 137.09
NAF-12 137.12
NAF-08A 139.27
FTA-02 131.94
NAF-01 140.11
PZ-13 136.86
NAF-10 137.64
FTA-03 132.79
PZ-19R 137.23
NAF-09 136.77
MW-7S 137.35
MW-24 128.84
MW-12S 131.35
MW-8S 140.11
MW-30 134.69
PZ-14 138.22
MW-1S 130.1
MW-9S 133.36
MW-2S
PZ-15 134.83
MW-25 133.84
MW-26 135.89
PZ-17 DRY
PZ-28 135.51
PZ-42 135
MW-23 134.19
PZ-45 133.2
MW-11 125.01
PZ-41 135.25
MW-27 132.19
PZ-40 134.93
PZ-36 133.27
PZ-39 134.72
PZ-44 133.68
PZ-26 134.88
PZ-37 133.62
PZ-27 133.46
MW-28 131.07
PZ-43 130.86
PZ-24 133.49
PZ-38 DRY
PZ-25R DRY

130 135 140

Pilot Test Area for Plum eStop™




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 August 10, 2021.
2. Ground surface elevation contours are derived from Lidar scans performed on December 1, 2019 and December 19, 2019 by Spectral Data Consultants, Inc.
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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.

1,000 500 0 1,000 Feet

# Groundwater Elevation Map Perched Zone - August 2021

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

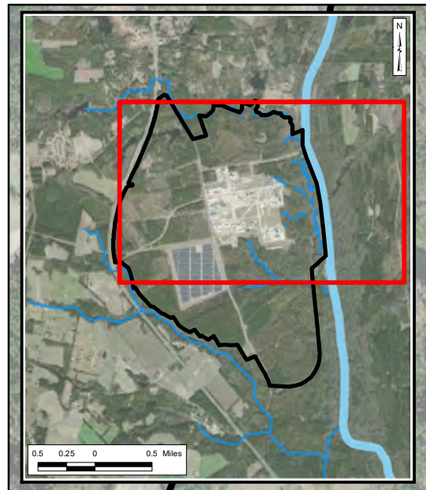
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | December 2021

Figure A5-1

Path: \\qualph-01\vol4\PRJ\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795 GW Contours Maps Perched Q32021.mxd Last Revised: 10/20/2021 Author: NBarhJahoum

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




Willis Creek

SMW-10
46.94

SMW-11
59.5

INSITU-02
DRY

INSITU-01
83.8

MW-19D
89.68

SMW-09
87.04

MW-20D
91.06

MW-18D
89.41

SMW-02B
91.95

PW-02
91.43

SMW-04B
103.92

MW-21D
107.58

SMW-05P
107.48

SMW-06B
104.82

NAF-11B
94.08

MW-22D
115.43

SMW-08B
108.88

MW-15DRR
104.47

PIW-5S
61.18

MW-17D
119.84

MW-16D
114.61

NAF-08B
94.8

Cape Fear River

Seep A

Seep B

PW-03
106.05

MW-13D
105.1

MW-14D
111.12

PZ-L
DRY

PIW-16S
135.1

PW-05
123.79

PIW-9S
59.13

Seep C

Seep D

SMW-01
138.38

PIW-10S
57.69

PW-04
72.48

60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000 1010 1020 1030 1040 1050 1060 1070 1080 1090 1100 1110 1120 1130 1140 1150 1160 1170 1180 1190 1200 1210 1220 1230 1240 1250 1260 1270 1280 1290 1300 1310 1320 1330 1340 1350 1360 1370 1380 1390 1400 1410 1420 1430 1440 1450 1460 1470 1480 1490 1500 1510 1520 1530 1540 1550 1560 1570 1580 1590 1600 1610 1620 1630 1640 1650 1660 1670 1680 1690 1700 1710 1720 1730 1740 1750 1760 1770 1780 1790 1800 1810 1820 1830 1840 1850 1860 1870 1880 1890 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 2020 2030 2040 2050 2060 2070 2080 2090 2100 2110 2120 2130 2140 2150 2160 2170 2180 2190 2200 2210 2220 2230 2240 2250 2260 2270 2280 2290 2300 2310 2320 2330 2340 2350 2360 2370 2380 2390 2400 2410 2420 2430 2440 2450 2460 2470 2480 2490 2500 2510 2520 2530 2540 2550 2560 2570 2580 2590 2600 2610 2620 2630 2640 2650 2660 2670 2680 2690 2700 2710 2720 2730 2740 2750 2760 2770 2780 2790 2800 2810 2820 2830 2840 2850 2860 2870 2880 2890 2900 2910 2920 2930 2940 2950 2960 2970 2980 2990 3000 3010 3020 3030 3040 3050 3060 3070 3080 3090 3100 3110 3120 3130 3140 3150 3160 3170 3180 3190 3200 3210 3220 3230 3240 3250 3260 3270 3280 3290 3300 3310 3320 3330 3340 3350 3360 3370 3380 3390 3400 3410 3420 3430 3440 3450 3460 3470 3480 3490 3500 3510 3520 3530 3540 3550 3560 3570 3580 3590 3600 3610 3620 3630 3640 3650 3660 3670 3680 3690 3700 3710 3720 3730 3740 3750 3760 3770 3780 3790 3800 3810 3820 3830 3840 3850 3860 3870 3880 3890 3900 3910 3920 3930 3940 3950 3960 3970 3980 3990 4000 4010 4020 4030 4040 4050 4060 4070 4080 4090 4100 4110 4120 4130 4140 4150 4160 4170 4180 4190 4200 4210 4220 4230 4240 4250 4260 4270 4280 4290 4300 4310 4320 4330 4340 4350 4360 4370 4380 4390 4400 4410 4420 4430 4440 4450 4460 4470 4480 4490 4500 4510 4520 4530 4540 4550 4560 4570 4580 4590 4600 4610 4620 4630 4640 4650 4660 4670 4680 4690 4700 4710 4720 4730 4740 4750 4760 4770 4780 4790 4800 4810 4820 4830 4840 4850 4860 4870 4880 4890 4900 4910 4920 4930 4940 4950 4960 4970 4980 4990 5000 5010 5020 5030 5040 5050 5060 5070 5080 5090 5100 5110 5120 5130 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 5270 5280 5290 5300 5310 5320 5330 5340 5350 5360 5370 5380 5390 5400 5410 5420 5430 5440 5450 5460 5470 5480 5490 5500 5510 5520 5530 5540 5550 5560 5570 5580 5590 5600 5610 5620 5630 5640 5650 5660 5670 5680 5690 5700 5710 5720 5730 5740 5750 5760 5770 5780 5790 5800 5810 5820 5830 5840 5850 5860 5870 5880 5890 5900 5910 5920 5930 5940 5950 5960 5970 5980 5990 6000 6010 6020 6030 6040 6050 6060 6070 6080 6090 6100 6110 6120 6130 6140 6150 6160 6170 6180 6190 6200 6210 6220 6230 6240 6250 6260 6270 6280 6290 6300 6310 6320 6330 6340 6350 6360 6370 6380 6390 6400 6410 6420 6430 6440 6450 6460 6470 6480 6490 6500 6510 6520 6530 6540 6550 6560 6570 6580 6590 6600 6610 6620 6630 6640 6650 6660 6670 6680 6690 6700 6710 6720 6730 6740 6750 6760 6770 6780 6790 6800 6810 6820 6830 6840 6850 6860 6870 6880 6890 6900 6910 6920 6930 6940 6950 6960 6970 6980 6990 7000 7010 7020 7030 7040 7050 7060 7070 7080 7090 7100 7110 7120 7130 7140 7150 7160 7170 7180 7190 7200 7210 7220 7230 7240 7250 7260 7270 7280 7290 7300 7310 7320 7330 7340 7350 7360 7370 7380 7390 7400 7410 7420 7430 7440 7450 7460 7470 7480 7490 7500 7510 7520 7530 7540 7550 7560 7570 7580 7590 7600 7610 7620 7630 7640 7650 7660 7670 7680 7690 7700 7710 7720 7730 7740 7750 7760 7770 7780 7790 7800 7810 7820 7830 7840 7850 7860 7870 7880 7890 7900 7910 7920 7930 7940 7950 7960 7970 7980 7990 8000 8010 8020 8030 8040 8050 8060 8070 8080 8090 8100 8110 8120 8130 8140 8150 8160 8170 8180 8190 8200 8210 8220 8230 8240 8250 8260 8270 8280 8290 8300 8310 8320 8330 8340 8350 8360 8370 8380 8390 8400 8410 8420 8430 8440 8450 8460 8470 8480 8490 8500 8510 8520 8530 8540 8550 8560 8570 8580 8590 8600 8610 8620 8630 8640 8650 8660 8670 8680 8690 8700 8710 8720 8730 8740 8750 8760 8770 8780 8790 8800 8810 8820 8830 8840 8850 8860 8870 8880 8890 8900 8910 8920 8930 8940 8950 8960 8970 8980 8990 9000 9010 9020 9030 9040 9050 9060 9070 9080 9090 9100 9110 9120 9130 9140 9150 9160 9170 9180 9190 9200 9210 9220 9230 9240 9250 9260 9270 9280 9290 9300 9310 9320 9330 9340 9350 9360 9370 9380 9390 9400 9410 9420 9430 9440 9450 9460 9470 9480 9490 9500 9510 9520 9530 9540 9550 9560 9570 9580 9590 9600 9610 9620 9630 9640 9650 9660 9670 9680 9690 9700 9710 9720 9730 9740 9750 9760 9770 9780 9790 9800 9810 9820 9830 9840 9850 9860 9870 9880 9890 9900 9910 9920 9930 9940 9950 9960 9970 9980 9990 10000

Legend

- Monitoring Well
- Groundwater Contours (ft NAVD88) - 10 feet interval
- Potentiometric Surface Inferred
- Inferred Groundwater Flow Direction
- Observed Seep
- Nearby Tributary
- Ground Surface Elevation Contour (ft NAVD88) - 5 ft interval
- Site Boundary

Notes:
ft NAVD88 - feet North American Vertical Datum 1988.
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5. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

1,000 500 0 1,000 Feet

**Groundwater Elevation Map**
**Surficial Aquifer - August 2021**

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

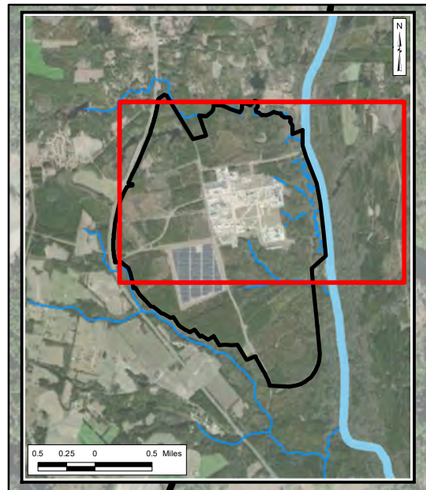
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | December 2021

Figure
**A5-2**

Path: \\gwlph-01\dat#\PRJ\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_GW_Contours_Mass_Surficial_Q32021.mxd Last Revised: 10/19/2021 Author: NBarNahoum

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




Willis Creek

PW-09 48.05
PIW-11 45.21
PIW-12 34.72
PIW-13 34.99
SMW-12 34.78
PIW-14 35.82
PIW-15 33.84
PIW-1S 32.84
PIW-1D 33.68
PIW-3D 36.33
LTW-01 36.55
OW-1 60.25
OW-10 60.29
EW-1 60.08
PIW-2D 60.19
SMW-03B 95.25
BCA-01 86.72
PW-12 94.14
PW-15R 78.13
LTW-02 42.5
PIW-4D 42.83
BCA-03R 102.41
EW-4 50.63
OW-2 50.38
OW-3 50.18
PW-10R 49.39
LTW-03 39.36
PIW-6S 39.47
PW-13 119.23
PZ-22 43.78
LTW-04 43
PW-14 86.94
EW-5 45.55
OW-7 45.49
OW-8 44.74
PIW-7S 43.04
PIW-7D 43.83
LTW-05 41.8
PIW-16D 131.37
PIW-8D 41.81
BCA-02 NM
PIW-9D 42.9
EW-2 45.52
OW-6 43.03
BCA-04 124.09
PIW-10DR 61.65
EW-3 61.73
OW-4 61.76
OW-5 62.58
OW-9 61.91
PW-11 41.93

Cape Fear River

Seep A
Seep B
Seep C
Seep D

50 60 70 80 90 30 40

N

Legend

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

Notes:
ft NAVD88 - feet North American Vertical Datum 1988.
NM - Not Measured; Water level below pump.
1. Depth to water measurements collected on August 10, 2021.
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.

1,000 500 0 1,000 Feet

**Groundwater Elevation Map**
**Black Creek Aquifer - August 2021**

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

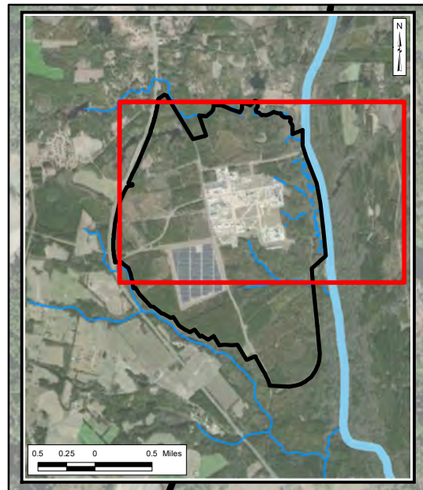
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | December 2021

Figure
**A5-3**

Path: P:\PR\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_GW_Contours_Maps_BlackCreek_Q32021.mxd Last Revised: 12/15/2021 Author: NBarNahoum

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



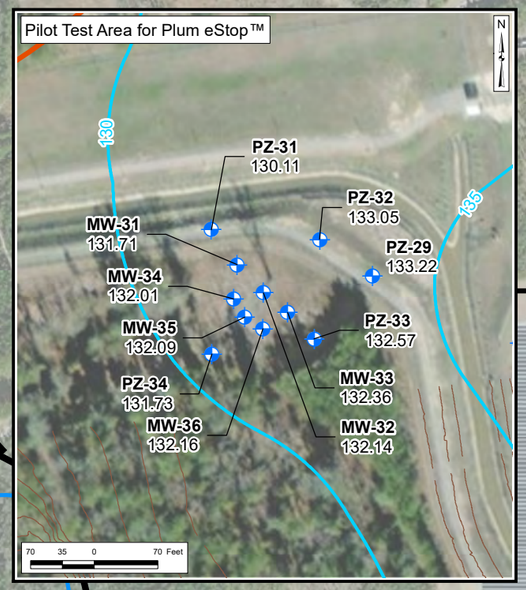

Willis Creek

Cape Fear River

SMW-03 DRY
SMW-02 131.22
SMW-04A 110.97
SMW-06 DRY
SMW-05 DRY
PZ-12 130.09
PW-01 134.18
NAF-03 139.23
NAF-06 133.65
NAF-07 138.99
SMW-08 DRY
PZ-11 140.41
NAF-02 139.33
NAF-11A 133.32
PZ-21R 137.45
NAF-04 139.43
SMW-07 127.29
PZ-35 137.61
FTA-01 132.72
PZ-20R 136.56
NAF-12 133.99
NAF-08A 138.05
FTA-02 131.64
NAF-01 139.55
NAF-10 136.79
PZ-13 136.26
FTA-03 132.4
PZ-19R 136.71
NAF-09 136.2
MW-7S 136.73
MW-24 128.66
MW-12S 130.98
MW-8S DRY
MW-30 133.64
PZ-14 137.25
MW-1S 129.84
MW-9S 133.06
MW-2S
PZ-15 134.41
MW-25 134.5
MW-26 135.27
PZ-17 DRY
PZ-28 135.53
MW-23 134.04
PZ-42 135.23
PZ-45 133.23
MW-11 125.2
PZ-41 135.48
MW-27 131.77
PZ-40 135.18
PZ-36 132.96
PZ-39 135.11
PZ-26 134.82
PZ-44 134.01
PZ-27 133.87
PZ-37 133.64
PZ-43 131.27
MW-28 130.51
PZ-38 DRY
PZ-24 133.02
PZ-25R 128.49

130 135 140

Seep A
Seep B
Seep C
Seep D




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 September 7, 2021.
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.

1,000 500 0 1,000 Feet

# Groundwater Elevation Map Perched Zone - September 2021

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

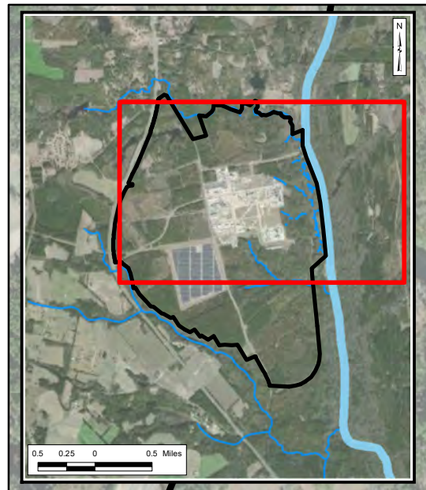
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | December 2021

Figure A6-1

Path: \\qualph-01\vol#\PRJ\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795 GW Contours Maps Perched Q32021.mxd Last Revised: 10/20/2021 Author: NBarhJahoum

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




Willis Creek

SMW-11
58.93

SMW-10
46.71

INSITU-02
DRY

INSITU-01
83.14

MW-19D
89.4

SMW-09
86.75

MW-20D
90.84

MW-18D
88.88

SMW-02B
91.95

SMW-04B
103.61

PW-02
91.25

MW-21D
107.24

SMW-05P
107.07

SMW-06B
104.52

NAF-11B
94.1

MW-22D
115.16

SMW-08B
109.58

MW-15DRR
104.35

PIW-5S
60.91

MW-17D
119

MW-16D
114.36

NAF-08B
94.97

Cape Fear River

Seep A

Seep B

PW-03
106

MW-13D
105.08

MW-14D
111.06

PZ-L
117.84

PIW-16S
134.28

PIW-9S
50.56

Seep C

PW-05
123.14

Seep D

SMW-01
137.94

PIW-10S
57.56

PW-04
71.8

60 70 80 90 100 110 120 130 110 100 90 80 70

Legend

- Monitoring Well
- Groundwater Contours (ft NAVD88) - 10 feet interval
- Potentiometric Surface Inferred
- Inferred Groundwater Flow Direction
- 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 September 7, 2021.
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.

1,000 500 0 1,000 Feet

**Groundwater Elevation Map**
**Surficial Aquifer - September 2021**

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

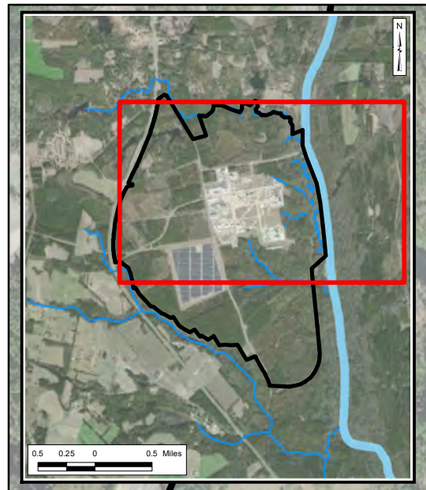
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | December 2021

Figure
**A6-2**

Path: \\gwlph-01\#AFP\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_GW_Contours_Mass_Surficial_Q32021.mxd Last Revised: 10/19/2021 Author: NBarNahoum

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




Willis Creek

PW-09 47.8
PIW-11 45.17
PIW-12 34.42
PIW-13 34.68
SMW-12 34.43
PIW-14 35.47
PIW-15 33.69
PIW-1S 32.56
PIW-1D 30.68
PIW-3D 36.01
LTW-01 36.26
OW-1 60.1
OW-10 60.1
EW-1 59.83
PIW-2D 60.05
BCA-01 88.49
SMW-03B 95.05
PW-12 93.82
PW-15R 77.99
LTW-02 41.91
PIW-4D 42.28
BCA-03R 102.31
EW-4 48.54
PW-10R 49.21
OW-2 50.19
OW-3 49.81
LTW-03 38.85
PIW-6S 38.98
PW-13 118.89
PZ-22 43.63
PW-14 87.57
LTW-04 42.6
EW-5 45.36
OW-7 45.32
PIW-7S 42.72
PIW-7D 43.62
OW-8 44.56
LTW-05 41.79
PIW-16D 130.68
PIW-8D 41.66
BCA-02 75.35
PIW-9D 42.74
EW-2 45.27
OW-6 42.84
BCA-04 123.56
PIW-10DR 61.46
EW-3 61.58
OW-4 61.57
OW-5 61.81
OW-9 61.76
PW-11 42.25

50 60 70 80 90

Cape Fear River

Seep A
Seep B
Seep C
Seep D

N

Legend

- Black Creek
- Floodplain Deposits
- Groundwater Contours (ft NAVD88) - 10 feet interval
- Potentiometric Surface Inferred
- Inferred Groundwater Flow Direction
- 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 September 7, 2021.
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.

1,000 500 0 1,000 Feet

**Groundwater Elevation Map**
**Black Creek Aquifer - September 2021**

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

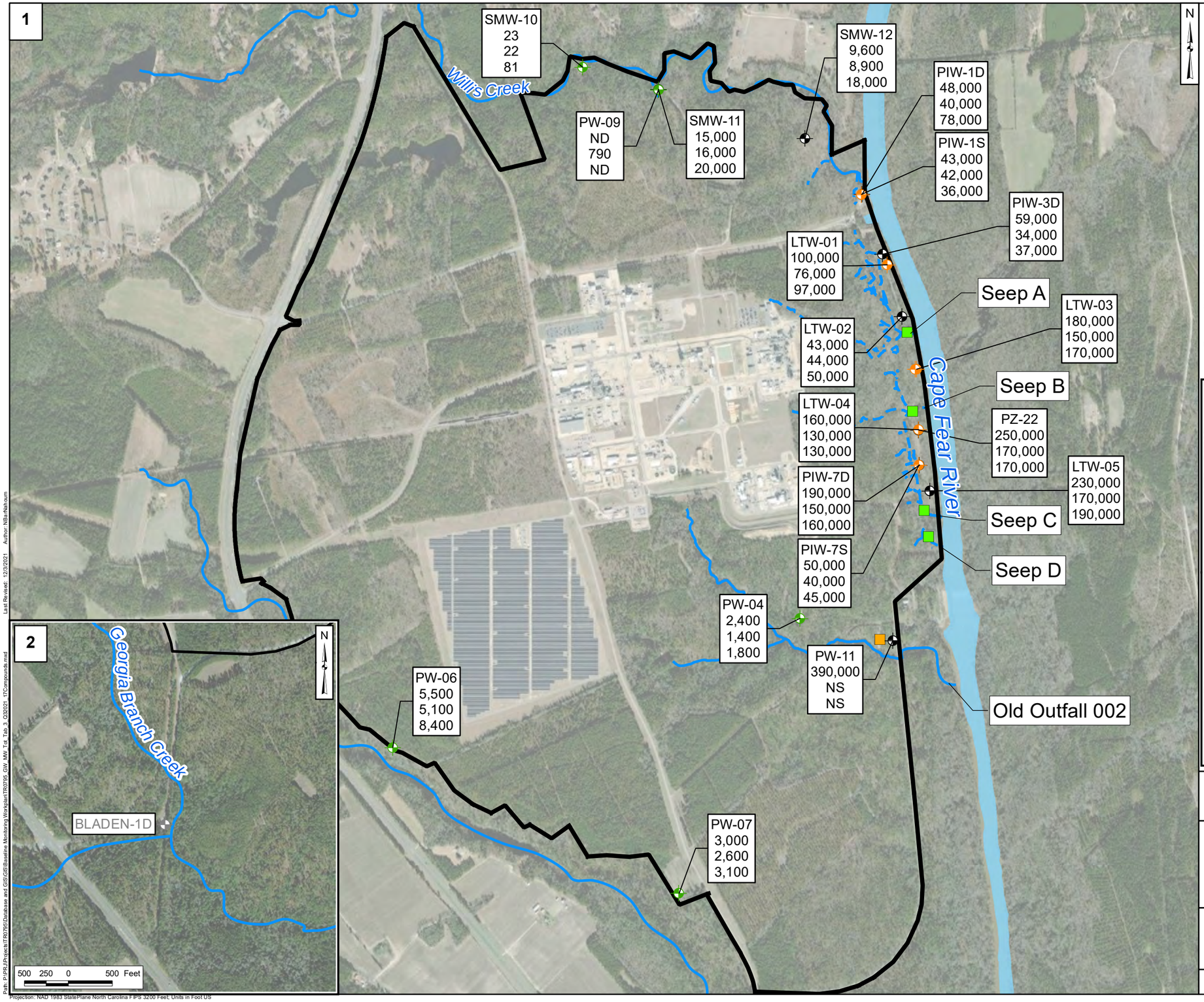
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | December 2021

Figure
**A6-3**

Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_GW_Contours_Maps_BlackCreek_Q32021.mxd Last Revised: 12/15/2021 Author: NBarNahoum

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

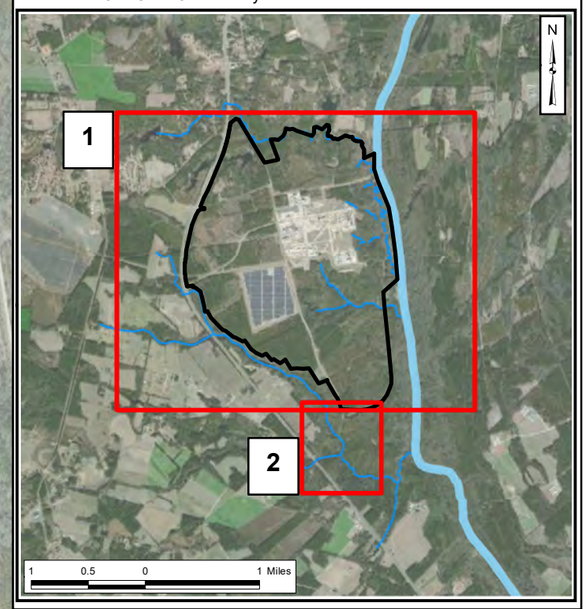



Legend

- Surficial Aquifer
- Floodplain Deposits
- Black Creek Aquifer
- Damaged
- Flow-Through Cell
- Old Outfall 002 Treatment System
- Observed Seep
- Nearby Tributary
- Site Boundary

PIW-1D
48,000 — July 2021
40,000 — August 2021
78,000 — September 2021

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




1,500 750 0 1,500 Feet

**Total Table 3+ Concentrations (17 Compounds) in Groundwater - Q3 2021**

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh | December 2021

Figure **A7**

Path: P:\PR\JP\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_GW_MW_Tot_Tab_3_Q32021_17Compounds.mxd Author: NBarNahoum Last Revised: 12/3/2021

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

# Appendix B
# Supplemental Tables

**TABLE B1**
**SEEP A FLUME DATA - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Time | Water Level (kPa) | Water Level (ft) | Flow Rate (gpm) | Flow Volume (Gallon) |
|---|---|---|---|---|---|
| 8/19/2021 | 12:27:38 AM | 1.753 | 0.59 | 171.01 | 5,130 |
| 8/19/2021 | 12:57:38 AM | 1.747 | 0.58 | 169.47 | 5,084 |
| 8/19/2021 | 1:27:38 AM | 1.706 | 0.57 | 159.21 | 4,776 |
| 8/19/2021 | 1:57:38 AM | 1.738 | 0.58 | 167.18 | 5,016 |
| 8/19/2021 | 2:27:38 AM | 1.696 | 0.57 | 156.77 | 4,703 |
| 8/19/2021 | 2:57:38 AM | 1.744 | 0.58 | 168.71 | 5,061 |
| 8/19/2021 | 3:27:38 AM | 1.727 | 0.58 | 164.42 | 4,932 |
| 8/19/2021 | 3:57:38 AM | 1.735 | 0.58 | 166.43 | 4,993 |
| 8/19/2021 | 4:27:38 AM | 1.734 | 0.58 | 166.17 | 4,985 |
| 8/19/2021 | 4:57:38 AM | 1.738 | 0.58 | 167.18 | 5,016 |
| 8/19/2021 | 5:27:38 AM | 1.754 | 0.59 | 171.26 | 5,138 |
| 8/19/2021 | 5:57:38 AM | 1.733 | 0.58 | 165.92 | 4,978 |
| 8/19/2021 | 6:27:38 AM | 1.757 | 0.59 | 172.03 | 5,161 |
| 8/19/2021 | 6:57:38 AM | 1.729 | 0.58 | 164.92 | 4,947 |
| 8/19/2021 | 7:27:38 AM | 1.725 | 0.58 | 163.91 | 4,917 |
| 8/19/2021 | 7:57:38 AM | 1.727 | 0.58 | 164.42 | 4,932 |
| 8/19/2021 | 8:27:38 AM | 1.724 | 0.58 | 163.66 | 4,910 |
| 8/19/2021 | 8:57:38 AM | 1.748 | 0.58 | 169.73 | 5,092 |
| 8/19/2021 | 9:27:38 AM | 1.72 | 0.58 | 162.67 | 4,880 |
| 8/19/2021 | 9:57:38 AM | 1.767 | 0.59 | 174.62 | 5,239 |
| 8/19/2021 | 10:27:38 AM | 1.727 | 0.58 | 164.42 | 4,932 |
| 8/19/2021 | 10:57:38 AM | 1.78 | 0.60 | 178.02 | 5,341 |
| 8/19/2021 | 11:27:38 AM | 1.763 | 0.59 | 173.58 | 5,207 |
| 8/19/2021 | 11:57:38 AM | 1.764 | 0.59 | 173.84 | 5,215 |
| 8/19/2021 | 12:27:38 PM | 1.676 | 0.56 | 151.95 | 4,559 |
| 8/19/2021 | 12:57:38 PM | 1.776 | 0.59 | 176.97 | 5,309 |
| 8/19/2021 | 1:27:38 PM | 1.72 | 0.58 | 162.67 | 4,880 |
| 8/19/2021 | 1:57:38 PM | 1.771 | 0.59 | 175.66 | 5,270 |
| 8/19/2021 | 2:27:38 PM | 1.703 | 0.57 | 158.47 | 4,754 |
| 8/19/2021 | 2:57:38 PM | 1.768 | 0.59 | 174.88 | 5,246 |
| 8/19/2021 | 3:27:38 PM | 1.677 | 0.56 | 152.19 | 4,566 |
| 8/19/2021 | 3:57:38 PM | 1.771 | 0.59 | 175.66 | 5,270 |
| 8/19/2021 | 4:27:38 PM | 1.711 | 0.57 | 160.44 | 4,813 |
| 8/19/2021 | 4:57:38 PM | 1.808 | 0.60 | 185.48 | 5,564 |
| 8/19/2021 | 5:27:38 PM | 1.869 | 0.63 | 202.39 | 6,072 |
| 8/19/2021 | 5:57:38 PM | 1.739 | 0.58 | 167.44 | 5,023 |
| 8/19/2021 | 6:27:38 PM | 1.597 | 0.53 | 133.83 | 4,015 |
| 8/19/2021 | 6:57:38 PM | 1.684 | 0.56 | 153.87 | 4,616 |
| 8/19/2021 | 7:27:38 PM | 1.768 | 0.59 | 174.88 | 5,246 |
| 8/19/2021 | 7:57:38 PM | 1.764 | 0.59 | 173.84 | 5,215 |
| 8/19/2021 | 8:27:38 PM | 1.843 | 0.62 | 195.07 | 5,852 |
| 8/19/2021 | 8:57:38 PM | 1.776 | 0.59 | 176.97 | 5,309 |
| 8/19/2021 | 9:27:38 PM | 1.862 | 0.62 | 200.41 | 6,012 |
| 8/19/2021 | 9:57:38 PM | 1.765 | 0.59 | 174.10 | 5,223 |
| 8/19/2021 | 10:27:38 PM | 1.779 | 0.60 | 177.76 | 5,333 |
| 8/19/2021 | 10:57:38 PM | 1.731 | 0.58 | 165.42 | 4,963 |
| 8/19/2021 | 11:27:38 PM | 2.112 | 0.71 | 279.13 | 8,374 |
| 8/19/2021 | 11:57:38 PM | 1.907 | 0.64 | 213.40 | 6,402 |
| 8/20/2021 | 12:27:38 AM | 1.756 | 0.59 | 171.78 | 5,153 |
| 8/20/2021 | 12:57:38 AM | 1.818 | 0.61 | 188.19 | 5,646 |
| 8/20/2021 | 1:27:38 AM | 1.769 | 0.59 | 175.14 | 5,254 |
| 8/20/2021 | 1:57:38 AM | 1.828 | 0.61 | 190.92 | 5,728 |
| 8/20/2021 | 2:27:38 AM | 1.753 | 0.59 | 171.01 | 5,130 |

**TABLE B1**
**SEEP A FLUME DATA - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Time | Water Level (kPa) | Water Level (ft) | Flow Rate (gpm) | Flow Volume (Gallon) |
|---|---|---|---|---|---|
| 8/20/2021 | 2:57:38 AM | 1.831 | 0.61 | 191.75 | 5,752 |
| 8/20/2021 | 3:27:38 AM | 1.79 | 0.60 | 180.66 | 5,420 |
| 8/20/2021 | 3:57:38 AM | 1.841 | 0.62 | 194.52 | 5,835 |
| 8/20/2021 | 4:27:38 AM | 1.833 | 0.61 | 192.30 | 5,769 |
| 8/20/2021 | 4:57:38 AM | 1.861 | 0.62 | 200.12 | 6,004 |
| 8/20/2021 | 5:27:38 AM | 1.87 | 0.63 | 202.68 | 6,080 |
| 8/20/2021 | 5:57:38 AM | 1.905 | 0.64 | 212.81 | 6,384 |
| 8/20/2021 | 6:27:38 AM | 1.925 | 0.64 | 218.73 | 6,562 |
| 8/20/2021 | 6:57:38 AM | 1.949 | 0.65 | 225.98 | 6,779 |
| 8/20/2021 | 7:27:38 AM | 1.985 | 0.66 | 237.12 | 7,114 |
| 8/20/2021 | 7:57:38 AM | 1.996 | 0.67 | 240.59 | 7,218 |
| 8/20/2021 | 8:27:38 AM | 2.022 | 0.68 | 248.92 | 7,468 |
| 8/20/2021 | 8:57:38 AM | 2.036 | 0.68 | 253.48 | 7,604 |
| 8/20/2021 | 9:27:38 AM | 2.013 | 0.67 | 246.02 | 7,381 |
| 8/20/2021 | 9:57:38 AM | 2.084 | 0.70 | 269.50 | 8,085 |
| 8/20/2021 | 10:27:38 AM | 2.128 | 0.71 | 284.73 | 8,542 |
| 8/20/2021 | 10:57:38 AM | 2.154 | 0.72 | 293.97 | 8,819 |
| 8/20/2021 | 11:27:38 AM | 2.156 | 0.72 | 294.69 | 8,841 |
| 8/20/2021 | 11:57:38 AM | 2.215 | 0.74 | 316.37 | 9,491 |
| 8/20/2021 | 12:27:38 PM | 2.206 | 0.74 | 313.00 | 9,390 |
| 8/20/2021 | 12:57:38 PM | 2.334 | 0.78 | 363.05 | 10,892 |
| 8/20/2021 | 1:27:38 PM | 2.374 | 0.79 | 379.64 | 11,389 |
| 8/20/2021 | 1:57:38 PM | 2.436 | 0.82 | 406.28 | 12,188 |
| 8/20/2021 | 2:27:38 PM | 2.436 | 0.82 | 406.28 | 12,188 |
| 8/20/2021 | 2:57:38 PM | 2.572 | 0.86 | 468.68 | 14,060 |
| 8/20/2021 | 3:27:38 PM | 2.515 | 0.84 | 441.85 | 13,256 |
| 8/20/2021 | 3:57:38 PM | 2.703 | 0.90 | 534.09 | 16,023 |
| 8/20/2021 | 4:27:38 PM | 2.73 | 0.91 | 548.24 | 16,447 |
| 8/20/2021 | 4:57:38 PM | 2.815 | 0.94 | 594.28 | 17,828 |
| 8/20/2021 | 5:27:38 PM | 2.939 | 0.98 | 665.62 | 19,969 |
| 8/20/2021 | 5:57:38 PM | 2.969 | 0.99 | 683.64 | 20,509 |
| 8/20/2021 | 6:27:38 PM | 2.998 | 1.00 | 701.34 | 21,040 |
| 8/20/2021 | 6:57:38 PM | 3.054 | 1.02 | 736.32 | 22,090 |
| 8/20/2021 | 7:27:38 PM | 3.161 | 1.06 | 806.12 | 24,184 |
| 8/20/2021 | 7:57:38 PM | 3.086 | 1.03 | 756.79 | 22,704 |
| 8/20/2021 | 8:27:38 PM | 3.162 | 1.06 | 806.79 | 24,204 |
| 8/20/2021 | 8:57:38 PM | 3.154 | 1.06 | 801.44 | 24,043 |
| 8/20/2021 | 9:27:38 PM | 3.256 | 1.09 | 871.41 | 26,142 |
| 8/20/2021 | 9:57:38 PM | 3.199 | 1.07 | 831.86 | 24,956 |
| 8/20/2021 | 10:27:38 PM | 3.238 | 1.08 | 858.80 | 25,764 |
| 8/20/2021 | 10:57:38 PM | 3.232 | 1.08 | 854.62 | 25,639 |
| 8/20/2021 | 11:27:38 PM | 3.275 | 1.10 | 884.85 | 26,545 |
| 8/20/2021 | 11:57:38 PM | 3.214 | 1.08 | 842.16 | 25,265 |
| **Total** | | | | | **255,132** |

Acronyms:
ft - feet
gal - gallons
gpm - gallons per minute
kPa - kilopascals
* - Flow volumes are calculated as the total volume of flow passing through the flume for the duration of the interval where the interval duration is calculated as the time between the present recording and the previous recording.

**TABLE B2-1**
**SEEP B FLUME DATA - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Time | Water Level (kPa) | Water Level (ft) | Flow Rate (gpm) | Flow Volume (Gallon) |
|---|---|---|---|---|---|
| 7/27/2021 | 12:00:00 AM | 1.354 | 0.45 | 86.70 | 2,601 |
| 7/27/2021 | 12:30:00 AM | 1.463 | 0.49 | 106.28 | 3,188 |
| 7/27/2021 | 1:00:00 AM | 1.596 | 0.53 | 133.61 | 4,008 |
| 7/27/2021 | 1:30:00 AM | 1.355 | 0.45 | 86.87 | 2,606 |
| 7/27/2021 | 2:00:00 AM | 1.273 | 0.43 | 73.72 | 2,211 |
| 7/27/2021 | 2:30:00 AM | 1.468 | 0.49 | 107.24 | 3,217 |
| 7/27/2021 | 3:00:00 AM | 1.534 | 0.51 | 120.39 | 3,612 |
| 7/27/2021 | 3:30:00 AM | 1.424 | 0.48 | 98.99 | 2,970 |
| 7/27/2021 | 4:00:00 AM | 1.467 | 0.49 | 107.05 | 3,211 |
| 7/27/2021 | 4:30:00 AM | 1.475 | 0.49 | 108.59 | 3,258 |
| 7/27/2021 | 5:00:00 AM | 1.604 | 0.54 | 135.38 | 4,061 |
| 7/27/2021 | 5:30:00 AM | 1.515 | 0.51 | 116.51 | 3,495 |
| 7/27/2021 | 6:00:00 AM | 1.367 | 0.46 | 88.91 | 2,667 |
| 7/27/2021 | 6:30:00 AM | 1.498 | 0.50 | 113.10 | 3,393 |
| 7/27/2021 | 7:00:00 AM | 1.506 | 0.50 | 114.69 | 3,441 |
| 7/27/2021 | 7:30:00 AM | 1.483 | 0.50 | 110.14 | 3,304 |
| 7/27/2021 | 8:00:00 AM | 1.481 | 0.50 | 109.75 | 3,293 |
| 7/27/2021 | 8:30:00 AM | 1.483 | 0.50 | 110.14 | 3,304 |
| 7/27/2021 | 9:00:00 AM | 1.49 | 0.50 | 111.52 | 3,346 |
| 7/27/2021 | 9:30:00 AM | 1.573 | 0.53 | 128.61 | 3,858 |
| 7/27/2021 | 10:00:00 AM | 1.647 | 0.55 | 145.13 | 4,354 |
| 7/27/2021 | 10:30:00 AM | 1.59 | 0.53 | 132.29 | 3,969 |
| 7/27/2021 | 11:00:00 AM | 1.834 | 0.61 | 192.58 | 5,777 |
| 7/27/2021 | 11:30:00 AM | 1.797 | 0.60 | 182.53 | 5,476 |
| 7/27/2021 | 12:00:00 PM | 1.84 | 0.62 | 194.24 | 5,827 |
| 7/27/2021 | 12:30:00 PM | 1.612 | 0.54 | 137.16 | 4,115 |
| 7/27/2021 | 1:00:00 PM | 1.455 | 0.49 | 104.76 | 3,143 |
| 7/27/2021 | 1:30:00 PM | 1.497 | 0.50 | 112.90 | 3,387 |
| 7/27/2021 | 2:00:00 PM | 1.517 | 0.51 | 116.91 | 3,507 |
| 7/27/2021 | 2:30:00 PM | 1.742 | 0.58 | 168.20 | 5,046 |
| 7/27/2021 | 3:00:00 PM | 1.993 | 0.67 | 239.64 | 7,189 |
| 7/27/2021 | 3:30:00 PM | 2.162 | 0.72 | 296.85 | 8,905 |
| 7/27/2021 | 4:00:00 PM | 2.294 | 0.77 | 346.92 | 10,407 |
| 7/27/2021 | 4:30:00 PM | 2.424 | 0.81 | 401.04 | 12,031 |
| 7/27/2021 | 5:00:00 PM | 2.517 | 0.84 | 442.78 | 13,283 |
| 7/27/2021 | 5:30:00 PM | 2.655 | 0.89 | 509.51 | 15,285 |
| 7/27/2021 | 6:00:00 PM | 2.748 | 0.92 | 557.80 | 16,734 |
| 7/27/2021 | 6:30:00 PM | 3.07 | 1.03 | 746.51 | 22,395 |
| 7/27/2021 | 7:00:00 PM | 3.257 | 1.09 | 872.11 | 26,163 |
| 7/27/2021 | 7:30:00 PM | 2.959 | 0.99 | 677.60 | 20,328 |
| 7/27/2021 | 8:00:00 PM | 3.032 | 1.01 | 722.45 | 21,674 |
| 7/27/2021 | 8:30:00 PM | 3.145 | 1.05 | 795.44 | 23,863 |
| 7/27/2021 | 9:00:00 PM | 3.207 | 1.07 | 837.34 | 25,120 |
| 7/27/2021 | 9:30:00 PM | 3.182 | 1.06 | 820.28 | 24,609 |
| 7/27/2021 | 10:00:00 PM | 3.194 | 1.07 | 828.44 | 24,853 |
| 7/27/2021 | 10:30:00 PM | 3.254 | 1.09 | 870.00 | 26,100 |
| 7/27/2021 | 11:00:00 PM | 3.28 | 1.10 | 888.41 | 26,652 |
| 7/27/2021 | 11:30:00 PM | 3.22 | 1.08 | 846.30 | 25,389 |
| 7/28/2021 | 12:00:00 AM | 3.204 | 1.07 | 835.28 | 25,059 |
| 7/28/2021 | 12:30:00 AM | 3.161 | 1.06 | 806.12 | 24,184 |
| 7/28/2021 | 1:00:00 AM | 3.128 | 1.05 | 784.18 | 23,525 |
| 7/28/2021 | 1:30:00 AM | 3.062 | 1.02 | 741.41 | 22,242 |
| 7/28/2021 | 2:00:00 AM | 3.024 | 1.01 | 717.45 | 21,524 |

**TABLE B2-1**
**SEEP B FLUME DATA - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Time | Water Level (kPa) | Water Level (ft) | Flow Rate (gpm) | Flow Volume (Gallon) |
|---|---|---|---|---|---|
| 7/28/2021 | 2:30:00 AM | 3.013 | 1.01 | 710.61 | 21,318 |
| 7/28/2021 | 3:00:00 AM | 2.935 | 0.98 | 663.24 | 19,897 |
| 7/28/2021 | 3:30:00 AM | 2.934 | 0.98 | 662.65 | 19,879 |
| 7/28/2021 | 4:00:00 AM | 2.851 | 0.95 | 614.48 | 18,434 |
| 7/28/2021 | 4:30:00 AM | 2.821 | 0.94 | 597.62 | 17,929 |
| 7/28/2021 | 5:00:00 AM | 2.743 | 0.92 | 555.13 | 16,654 |
| 7/28/2021 | 5:30:00 AM | 2.743 | 0.92 | 555.13 | 16,654 |
| 7/28/2021 | 6:00:00 AM | 2.742 | 0.92 | 554.60 | 16,638 |
| 7/28/2021 | 6:30:00 AM | 2.571 | 0.86 | 468.20 | 14,046 |
| 7/28/2021 | 7:00:00 AM | 2.523 | 0.84 | 445.56 | 13,367 |
| 7/28/2021 | 7:30:00 AM | 2.43 | 0.81 | 403.65 | 12,110 |
| 7/28/2021 | 8:00:00 AM | 2.394 | 0.80 | 388.11 | 11,643 |
| 7/28/2021 | 8:30:00 AM | 2.361 | 0.79 | 374.20 | 11,226 |
| 7/28/2021 | 9:00:00 AM | 2.315 | 0.77 | 355.33 | 10,660 |
| 7/28/2021 | 9:30:00 AM | 2.269 | 0.76 | 337.06 | 10,112 |
| 7/28/2021 | 10:00:00 AM | 2.226 | 0.74 | 320.52 | 9,616 |
| 7/28/2021 | 10:30:00 AM | 2.125 | 0.71 | 283.67 | 8,510 |
| 7/28/2021 | 11:00:00 AM | 2.055 | 0.69 | 259.75 | 7,793 |
| 7/28/2021 | 11:30:00 AM | 1.982 | 0.66 | 236.18 | 7,085 |
| 7/28/2021 | 12:00:00 PM | 1.906 | 0.64 | 213.10 | 6,393 |
| 7/28/2021 | 12:30:00 PM | 1.903 | 0.64 | 212.22 | 6,367 |
| 7/28/2021 | 1:00:00 PM | 1.813 | 0.61 | 186.83 | 5,605 |
| **Total** | | | | | **652,835** |

Acronyms:
ft - feet
gal - gallons
gpm - gallons per minute
kPa - kilopascals
* - Flow volumes are calculated as the total volume of flow passing through the flume for the duration of the interval where the interval duration is calculated as the time between the present recording and the previous recording.

**TABLE B2-2**
**SEEP B FLUME DATA - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Time | Water Level (kPa) | Water Level (ft) | Flow Rate (gpm) | Flow Volume (Gallon) |
|---|---|---|---|---|---|
| 8/19/2021 | 12:27:38 AM | 1.753 | 0.59 | 171.01 | 5,130 |
| 8/19/2021 | 12:57:38 AM | 1.747 | 0.58 | 169.47 | 5,084 |
| 8/19/2021 | 1:27:38 AM | 1.706 | 0.57 | 159.21 | 4,776 |
| 8/19/2021 | 1:57:38 AM | 1.738 | 0.58 | 167.18 | 5,016 |
| 8/19/2021 | 2:27:38 AM | 1.696 | 0.57 | 156.77 | 4,703 |
| 8/19/2021 | 2:57:38 AM | 1.744 | 0.58 | 168.71 | 5,061 |
| 8/19/2021 | 3:27:38 AM | 1.727 | 0.58 | 164.42 | 4,932 |
| 8/19/2021 | 3:57:38 AM | 1.735 | 0.58 | 166.43 | 4,993 |
| 8/19/2021 | 4:27:38 AM | 1.734 | 0.58 | 166.17 | 4,985 |
| 8/19/2021 | 4:57:38 AM | 1.738 | 0.58 | 167.18 | 5,016 |
| 8/19/2021 | 5:27:38 AM | 1.754 | 0.59 | 171.26 | 5,138 |
| 8/19/2021 | 5:57:38 AM | 1.733 | 0.58 | 165.92 | 4,978 |
| 8/19/2021 | 6:27:38 AM | 1.757 | 0.59 | 172.03 | 5,161 |
| 8/19/2021 | 6:57:38 AM | 1.729 | 0.58 | 164.92 | 4,947 |
| 8/19/2021 | 7:27:38 AM | 1.725 | 0.58 | 163.91 | 4,917 |
| 8/19/2021 | 7:57:38 AM | 1.727 | 0.58 | 164.42 | 4,932 |
| 8/19/2021 | 8:27:38 AM | 1.724 | 0.58 | 163.66 | 4,910 |
| 8/19/2021 | 8:57:38 AM | 1.748 | 0.58 | 169.73 | 5,092 |
| 8/19/2021 | 9:27:38 AM | 1.72 | 0.58 | 162.67 | 4,880 |
| 8/19/2021 | 9:57:38 AM | 1.767 | 0.59 | 174.62 | 5,239 |
| 8/19/2021 | 10:27:38 AM | 1.727 | 0.58 | 164.42 | 4,932 |
| 8/19/2021 | 10:57:38 AM | 1.78 | 0.60 | 178.02 | 5,341 |
| 8/19/2021 | 11:27:38 AM | 1.763 | 0.59 | 173.58 | 5,207 |
| 8/19/2021 | 11:57:38 AM | 1.764 | 0.59 | 173.84 | 5,215 |
| 8/19/2021 | 12:27:38 PM | 1.676 | 0.56 | 151.95 | 4,559 |
| 8/19/2021 | 12:57:38 PM | 1.776 | 0.59 | 176.97 | 5,309 |
| 8/19/2021 | 1:27:38 PM | 1.72 | 0.58 | 162.67 | 4,880 |
| 8/19/2021 | 1:57:38 PM | 1.771 | 0.59 | 175.66 | 5,270 |
| 8/19/2021 | 2:27:38 PM | 1.703 | 0.57 | 158.47 | 4,754 |
| 8/19/2021 | 2:57:38 PM | 1.768 | 0.59 | 174.88 | 5,246 |
| 8/19/2021 | 3:27:38 PM | 1.677 | 0.56 | 152.19 | 4,566 |
| 8/19/2021 | 3:57:38 PM | 1.771 | 0.59 | 175.66 | 5,270 |
| 8/19/2021 | 4:27:38 PM | 1.711 | 0.57 | 160.44 | 4,813 |
| 8/19/2021 | 4:57:38 PM | 1.808 | 0.60 | 185.48 | 5,564 |
| 8/19/2021 | 5:27:38 PM | 1.869 | 0.63 | 202.39 | 6,072 |
| 8/19/2021 | 5:57:38 PM | 1.739 | 0.58 | 167.44 | 5,023 |
| 8/19/2021 | 6:27:38 PM | 1.597 | 0.53 | 133.83 | 4,015 |
| 8/19/2021 | 6:57:38 PM | 1.684 | 0.56 | 153.87 | 4,616 |
| 8/19/2021 | 7:27:38 PM | 1.768 | 0.59 | 174.88 | 5,246 |
| 8/19/2021 | 7:57:38 PM | 1.764 | 0.59 | 173.84 | 5,215 |
| 8/19/2021 | 8:27:38 PM | 1.843 | 0.62 | 195.07 | 5,852 |
| 8/19/2021 | 8:57:38 PM | 1.776 | 0.59 | 176.97 | 5,309 |
| 8/19/2021 | 9:27:38 PM | 1.862 | 0.62 | 200.41 | 6,012 |
| 8/19/2021 | 9:57:38 PM | 1.765 | 0.59 | 174.10 | 5,223 |
| 8/19/2021 | 10:27:38 PM | 1.779 | 0.60 | 177.76 | 5,333 |
| 8/19/2021 | 10:57:38 PM | 1.731 | 0.58 | 165.42 | 4,963 |
| 8/19/2021 | 11:27:38 PM | 2.112 | 0.71 | 279.13 | 8,374 |
| 8/19/2021 | 11:57:38 PM | 1.907 | 0.64 | 213.40 | 6,402 |
| 8/20/2021 | 12:27:38 AM | 1.756 | 0.59 | 171.78 | 5,153 |
| 8/20/2021 | 12:57:38 AM | 1.818 | 0.61 | 188.19 | 5,646 |
| 8/20/2021 | 1:27:38 AM | 1.769 | 0.59 | 175.14 | 5,254 |
| 8/20/2021 | 1:57:38 AM | 1.828 | 0.61 | 190.92 | 5,728 |
| 8/20/2021 | 2:27:38 AM | 1.753 | 0.59 | 171.01 | 5,130 |

**TABLE B2-2**
**SEEP B FLUME DATA - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Time | Water Level (kPa) | Water Level (ft) | Flow Rate (gpm) | Flow Volume (Gallon) |
|---|---|---|---|---|---|
| 8/20/2021 | 2:57:38 AM | 1.831 | 0.61 | 191.75 | 5,752 |
| 8/20/2021 | 3:27:38 AM | 1.79 | 0.60 | 180.66 | 5,420 |
| 8/20/2021 | 3:57:38 AM | 1.841 | 0.62 | 194.52 | 5,835 |
| 8/20/2021 | 4:27:38 AM | 1.833 | 0.61 | 192.30 | 5,769 |
| 8/20/2021 | 4:57:38 AM | 1.861 | 0.62 | 200.12 | 6,004 |
| 8/20/2021 | 5:27:38 AM | 1.87 | 0.63 | 202.68 | 6,080 |
| 8/20/2021 | 5:57:38 AM | 1.905 | 0.64 | 212.81 | 6,384 |
| 8/20/2021 | 6:27:38 AM | 1.925 | 0.64 | 218.73 | 6,562 |
| 8/20/2021 | 6:57:38 AM | 1.949 | 0.65 | 225.98 | 6,779 |
| 8/20/2021 | 7:27:38 AM | 1.985 | 0.66 | 237.12 | 7,114 |
| 8/20/2021 | 7:57:38 AM | 1.996 | 0.67 | 240.59 | 7,218 |
| 8/20/2021 | 8:27:38 AM | 2.022 | 0.68 | 248.92 | 7,468 |
| 8/20/2021 | 8:57:38 AM | 2.036 | 0.68 | 253.48 | 7,604 |
| 8/20/2021 | 9:27:38 AM | 2.013 | 0.67 | 246.02 | 7,381 |
| 8/20/2021 | 9:57:38 AM | 2.084 | 0.70 | 269.50 | 8,085 |
| 8/20/2021 | 10:27:38 AM | 2.128 | 0.71 | 284.73 | 8,542 |
| 8/20/2021 | 10:57:38 AM | 2.154 | 0.72 | 293.97 | 8,819 |
| 8/20/2021 | 11:27:38 AM | 2.156 | 0.72 | 294.69 | 8,841 |
| 8/20/2021 | 11:57:38 AM | 2.215 | 0.74 | 316.37 | 9,491 |
| 8/20/2021 | 12:27:38 PM | 2.206 | 0.74 | 313.00 | 9,390 |
| 8/20/2021 | 12:57:38 PM | 2.334 | 0.78 | 363.05 | 10,892 |
| 8/20/2021 | 1:27:38 PM | 2.374 | 0.79 | 379.64 | 11,389 |
| 8/20/2021 | 1:57:38 PM | 2.436 | 0.82 | 406.28 | 12,188 |
| 8/20/2021 | 2:27:38 PM | 2.436 | 0.82 | 406.28 | 12,188 |
| 8/20/2021 | 2:57:38 PM | 2.572 | 0.86 | 468.68 | 14,060 |
| 8/20/2021 | 3:27:38 PM | 2.515 | 0.84 | 441.85 | 13,256 |
| 8/20/2021 | 3:57:38 PM | 2.703 | 0.90 | 534.09 | 16,023 |
| 8/20/2021 | 4:27:38 PM | 2.73 | 0.91 | 548.24 | 16,447 |
| 8/20/2021 | 4:57:38 PM | 2.815 | 0.94 | 594.28 | 17,828 |
| 8/20/2021 | 5:27:38 PM | 2.939 | 0.98 | 665.62 | 19,969 |
| 8/20/2021 | 5:57:38 PM | 2.969 | 0.99 | 683.64 | 20,509 |
| 8/20/2021 | 6:27:38 PM | 2.998 | 1.00 | 701.34 | 21,040 |
| 8/20/2021 | 6:57:38 PM | 3.054 | 1.02 | 736.32 | 22,090 |
| 8/20/2021 | 7:27:38 PM | 3.161 | 1.06 | 806.12 | 24,184 |
| 8/20/2021 | 7:57:38 PM | 3.086 | 1.03 | 756.79 | 22,704 |
| 8/20/2021 | 8:27:38 PM | 3.162 | 1.06 | 806.79 | 24,204 |
| 8/20/2021 | 8:57:38 PM | 3.154 | 1.06 | 801.44 | 24,043 |
| 8/20/2021 | 9:27:38 PM | 3.256 | 1.09 | 871.41 | 26,142 |
| 8/20/2021 | 9:57:38 PM | 3.199 | 1.07 | 831.86 | 24,956 |
| 8/20/2021 | 10:27:38 PM | 3.238 | 1.08 | 858.80 | 25,764 |
| 8/20/2021 | 10:57:38 PM | 3.232 | 1.08 | 854.62 | 25,639 |
| 8/20/2021 | 11:27:38 PM | 3.275 | 1.10 | 884.85 | 26,545 |
| 8/20/2021 | 11:57:38 PM | 3.214 | 1.08 | 842.16 | 25,265 |
| **Total** | | | | | **301,599** |

Acronyms:
ft - feet
gal - gallons
gpm - gallons per minute
kPa - kilopascals
* - Flow volumes are calculated as the total volume of flow passing through the flume for the duration of the interval where the interval duration is calculated as the time between the present recording and the previous recording.

**TABLE B2-3**
**SEEP B FLUME DATA - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Time | Water Level (kPa) | Water Level (ft) | Flow Rate (gpm) | Flow Volume (Gallon) |
|---|---|---|---|---|---|
| 9/14/2021 | 12:17:43 AM | 1.521 | 0.51 | 117.72 | 3,532 |
| 9/14/2021 | 12:47:43 AM | 1.509 | 0.50 | 115.30 | 3,459 |
| 9/14/2021 | 1:17:43 AM | 1.51 | 0.51 | 115.50 | 3,465 |
| 9/14/2021 | 1:47:43 AM | 1.49 | 0.50 | 111.52 | 3,346 |
| 9/14/2021 | 2:17:43 AM | 1.498 | 0.50 | 113.10 | 3,393 |
| 9/14/2021 | 2:47:43 AM | 1.45 | 0.49 | 103.82 | 3,114 |
| 9/14/2021 | 3:17:43 AM | 1.517 | 0.51 | 116.91 | 3,507 |
| 9/14/2021 | 3:47:43 AM | 1.488 | 0.50 | 111.12 | 3,334 |
| 9/14/2021 | 4:17:43 AM | 1.508 | 0.50 | 115.10 | 3,453 |
| 9/14/2021 | 4:47:43 AM | 1.502 | 0.50 | 113.90 | 3,417 |
| 9/14/2021 | 5:17:43 AM | 1.519 | 0.51 | 117.32 | 3,520 |
| 9/14/2021 | 5:47:43 AM | 1.527 | 0.51 | 118.95 | 3,568 |
| 9/14/2021 | 6:17:43 AM | 1.532 | 0.51 | 119.98 | 3,599 |
| 9/14/2021 | 6:47:43 AM | 1.537 | 0.51 | 121.01 | 3,630 |
| 9/14/2021 | 7:17:43 AM | 1.56 | 0.52 | 125.83 | 3,775 |
| 9/14/2021 | 7:47:43 AM | 1.615 | 0.54 | 137.83 | 4,135 |
| 9/14/2021 | 8:17:43 AM | 1.526 | 0.51 | 118.74 | 3,562 |
| 9/14/2021 | 8:47:43 AM | 1.537 | 0.51 | 121.01 | 3,630 |
| 9/14/2021 | 9:17:43 AM | 1.535 | 0.51 | 120.59 | 3,618 |
| 9/14/2021 | 9:47:43 AM | 1.559 | 0.52 | 125.62 | 3,769 |
| 9/14/2021 | 10:17:43 AM | 1.549 | 0.52 | 123.51 | 3,705 |
| 9/14/2021 | 10:47:43 AM | 1.551 | 0.52 | 123.93 | 3,718 |
| 9/14/2021 | 11:17:43 AM | 1.554 | 0.52 | 124.56 | 3,737 |
| 9/14/2021 | 11:47:43 AM | 1.499 | 0.50 | 113.30 | 3,399 |
| 9/14/2021 | 12:17:43 PM | 1.558 | 0.52 | 125.41 | 3,762 |
| 9/14/2021 | 12:47:43 PM | 1.497 | 0.50 | 112.90 | 3,387 |
| 9/14/2021 | 1:17:43 PM | 1.541 | 0.52 | 121.84 | 3,655 |
| 9/14/2021 | 1:47:43 PM | 1.459 | 0.49 | 105.52 | 3,166 |
| 9/14/2021 | 2:17:43 PM | 1.571 | 0.53 | 128.18 | 3,845 |
| 9/14/2021 | 2:47:43 PM | 1.487 | 0.50 | 110.93 | 3,328 |
| 9/14/2021 | 3:17:43 PM | 1.566 | 0.52 | 127.11 | 3,813 |
| 9/14/2021 | 3:47:43 PM | 1.503 | 0.50 | 114.09 | 3,423 |
| 9/14/2021 | 4:17:43 PM | 1.597 | 0.53 | 133.83 | 4,015 |
| 9/14/2021 | 4:47:43 PM | 1.56 | 0.52 | 125.83 | 3,775 |
| 9/14/2021 | 5:17:43 PM | 1.643 | 0.55 | 144.21 | 4,326 |
| 9/14/2021 | 5:47:43 PM | 1.646 | 0.55 | 144.90 | 4,347 |
| 9/14/2021 | 6:17:43 PM | 1.623 | 0.54 | 139.64 | 4,189 |
| 9/14/2021 | 6:47:43 PM | 1.643 | 0.55 | 144.21 | 4,326 |
| 9/14/2021 | 7:17:43 PM | 1.593 | 0.53 | 132.95 | 3,989 |
| 9/14/2021 | 7:47:43 PM | 1.61 | 0.54 | 136.71 | 4,101 |
| 9/14/2021 | 8:17:43 PM | 1.62 | 0.54 | 138.96 | 4,169 |
| 9/14/2021 | 8:47:43 PM | 1.712 | 0.57 | 160.69 | 4,821 |
| 9/14/2021 | 9:17:43 PM | 1.585 | 0.53 | 131.20 | 3,936 |
| 9/14/2021 | 9:47:43 PM | 1.62 | 0.54 | 138.96 | 4,169 |
| 9/14/2021 | 10:17:43 PM | 1.573 | 0.53 | 128.61 | 3,858 |
| 9/14/2021 | 10:47:43 PM | 1.614 | 0.54 | 137.61 | 4,128 |
| 9/14/2021 | 11:17:43 PM | 1.556 | 0.52 | 124.98 | 3,749 |
| 9/14/2021 | 11:47:43 PM | 1.568 | 0.52 | 127.53 | 3,826 |
| 9/15/2021 | 12:17:43 AM | 1.495 | 0.50 | 112.50 | 3,375 |
| 9/15/2021 | 12:47:43 AM | 1.453 | 0.49 | 104.38 | 3,131 |
| 9/15/2021 | 1:17:43 AM | 1.528 | 0.51 | 119.15 | 3,575 |
| 9/15/2021 | 1:47:43 AM | 1.515 | 0.51 | 116.51 | 3,495 |
| 9/15/2021 | 2:17:43 AM | 1.529 | 0.51 | 119.36 | 3,581 |

**TABLE B2-3**
**SEEP B FLUME DATA - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Time | Water Level (kPa) | Water Level (ft) | Flow Rate (gpm) | Flow Volume (Gallon) |
|---|---|---|---|---|---|
| 9/15/2021 | 2:47:43 AM | 1.497 | 0.50 | 112.90 | 3,387 |
| 9/15/2021 | 3:17:43 AM | 1.515 | 0.51 | 116.51 | 3,495 |
| 9/15/2021 | 3:47:43 AM | 1.492 | 0.50 | 111.91 | 3,357 |
| 9/15/2021 | 4:17:43 AM | 1.543 | 0.52 | 122.25 | 3,668 |
| 9/15/2021 | 4:47:43 AM | 1.53 | 0.51 | 119.56 | 3,587 |
| 9/15/2021 | 5:17:43 AM | 1.541 | 0.52 | 121.84 | 3,655 |
| 9/15/2021 | 5:47:43 AM | 1.542 | 0.52 | 122.05 | 3,661 |
| 9/15/2021 | 6:17:43 AM | 1.597 | 0.53 | 133.83 | 4,015 |
| 9/15/2021 | 6:47:43 AM | 1.639 | 0.55 | 143.29 | 4,299 |
| 9/15/2021 | 7:17:43 AM | 1.557 | 0.52 | 125.19 | 3,756 |
| 9/15/2021 | 7:47:43 AM | 1.553 | 0.52 | 124.35 | 3,730 |
| 9/15/2021 | 8:17:43 AM | 1.557 | 0.52 | 125.19 | 3,756 |
| 9/15/2021 | 8:47:43 AM | 1.571 | 0.53 | 128.18 | 3,845 |
| 9/15/2021 | 9:17:43 AM | 1.586 | 0.53 | 131.42 | 3,943 |
| 9/15/2021 | 9:47:43 AM | 1.618 | 0.54 | 138.51 | 4,155 |
| 9/15/2021 | 10:17:43 AM | 1.569 | 0.52 | 127.75 | 3,832 |
| 9/15/2021 | 10:47:43 AM | 1.571 | 0.53 | 128.18 | 3,845 |
| 9/15/2021 | 11:17:43 AM | 1.584 | 0.53 | 130.98 | 3,930 |
| 9/15/2021 | 11:47:43 AM | 1.538 | 0.51 | 121.22 | 3,636 |
| 9/15/2021 | 12:17:43 PM | 1.601 | 0.54 | 134.71 | 4,041 |
| 9/15/2021 | 12:47:43 PM | 1.565 | 0.52 | 126.89 | 3,807 |
| 9/15/2021 | 1:17:43 PM | 1.582 | 0.53 | 130.55 | 3,916 |
| 9/15/2021 | 1:47:43 PM | 1.508 | 0.50 | 115.10 | 3,453 |
| 9/15/2021 | 2:17:43 PM | 1.582 | 0.53 | 130.55 | 3,916 |
| 9/15/2021 | 2:47:43 PM | 1.53 | 0.51 | 119.56 | 3,587 |
| 9/15/2021 | 3:17:43 PM | 1.608 | 0.54 | 136.27 | 4,088 |
| 9/15/2021 | 3:47:43 PM | 1.61 | 0.54 | 136.71 | 4,101 |
| 9/15/2021 | 4:17:43 PM | 1.603 | 0.54 | 135.16 | 4,055 |
| 9/15/2021 | 4:47:43 PM | 1.575 | 0.53 | 129.04 | 3,871 |
| 9/15/2021 | 5:17:43 PM | 1.655 | 0.55 | 146.99 | 4,410 |
| 9/15/2021 | 5:47:43 PM | 1.669 | 0.56 | 150.29 | 4,509 |
| 9/15/2021 | 6:17:43 PM | 1.67 | 0.56 | 150.52 | 4,516 |
| 9/15/2021 | 6:47:43 PM | 1.736 | 0.58 | 166.68 | 5,000 |
| 9/15/2021 | 7:17:43 PM | 1.636 | 0.55 | 142.60 | 4,278 |
| 9/15/2021 | 7:47:43 PM | 1.696 | 0.57 | 156.77 | 4,703 |
| 9/15/2021 | 8:17:43 PM | 1.638 | 0.55 | 143.06 | 4,292 |
| 9/15/2021 | 8:47:43 PM | 1.717 | 0.57 | 161.92 | 4,858 |
| 9/15/2021 | 9:17:43 PM | 1.652 | 0.55 | 146.29 | 4,389 |
| 9/15/2021 | 9:47:43 PM | 1.73 | 0.58 | 165.17 | 4,955 |
| 9/15/2021 | 10:17:43 PM | 1.587 | 0.53 | 131.64 | 3,949 |
| 9/15/2021 | 10:47:43 PM | 1.585 | 0.53 | 131.20 | 3,936 |
| 9/15/2021 | 11:17:43 PM | 1.588 | 0.53 | 131.86 | 3,956 |
| 9/15/2021 | 11:47:43 PM | 1.588 | 0.53 | 131.86 | 3,956 |
| **Total** | | | | | **177,134** |

Acronyms:
ft - feet
gal - gallons
gpm - gallons per minute
kPa - kilopascals
* - Flow volumes are calculated as the total volume of flow passing through the flume for the duration of the interval where the interval duration is calculated as the time between the present recording and the previous recording.

**TABLE B3-1**
**SEEP C FLUME DATA - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Time | Water Level (kPa) | Water Level (ft) | Flow Rate (gpm) | Flow Volume (Gallon) |
|---|---|---|---|---|---|
| 7/27/2021 | 12:23:46 AM | 0.885 | 0.30 | 28.34 | 850 |
| 7/27/2021 | 12:53:46 AM | 1.036 | 0.35 | 42.88 | 1,286 |
| 7/27/2021 | 1:23:46 AM | 0.828 | 0.28 | 23.78 | 714 |
| 7/27/2021 | 1:53:46 AM | 0.75 | 0.25 | 18.33 | 550 |
| 7/27/2021 | 2:23:46 AM | 0.901 | 0.30 | 29.70 | 891 |
| 7/27/2021 | 2:53:46 AM | 0.953 | 0.32 | 34.43 | 1,033 |
| 7/27/2021 | 3:23:46 AM | 0.854 | 0.29 | 25.80 | 774 |
| 7/27/2021 | 3:53:46 AM | 0.902 | 0.30 | 29.79 | 894 |
| 7/27/2021 | 4:23:46 AM | 0.885 | 0.30 | 28.34 | 850 |
| 7/27/2021 | 4:53:46 AM | 0.988 | 0.33 | 37.85 | 1,136 |
| 7/27/2021 | 5:23:46 AM | 0.969 | 0.32 | 35.97 | 1,079 |
| 7/27/2021 | 5:53:46 AM | 0.813 | 0.27 | 22.67 | 680 |
| 7/27/2021 | 6:23:46 AM | 0.915 | 0.31 | 30.93 | 928 |
| 7/27/2021 | 6:53:46 AM | 0.918 | 0.31 | 31.20 | 936 |
| 7/27/2021 | 7:23:46 AM | 0.881 | 0.29 | 28.00 | 840 |
| 7/27/2021 | 7:53:46 AM | 0.859 | 0.29 | 26.20 | 786 |
| 7/27/2021 | 8:23:46 AM | 0.867 | 0.29 | 26.84 | 805 |
| 7/27/2021 | 8:53:46 AM | 0.855 | 0.29 | 25.88 | 776 |
| 7/27/2021 | 9:23:46 AM | 0.921 | 0.31 | 31.47 | 944 |
| 7/27/2021 | 9:53:46 AM | 0.979 | 0.33 | 36.95 | 1,109 |
| 7/27/2021 | 10:23:46 AM | 0.922 | 0.31 | 31.56 | 947 |
| 7/27/2021 | 10:53:46 AM | 0.93 | 0.31 | 32.28 | 968 |
| 7/27/2021 | 11:23:46 AM | 0.946 | 0.32 | 33.76 | 1,013 |
| 7/27/2021 | 11:53:46 AM | 0.96 | 0.32 | 35.09 | 1,053 |
| 7/27/2021 | 12:23:46 PM | 0.907 | 0.30 | 30.23 | 907 |
| 7/27/2021 | 12:53:46 PM | 0.843 | 0.28 | 24.93 | 748 |
| 7/27/2021 | 1:23:46 PM | 0.892 | 0.30 | 28.93 | 868 |
| 7/27/2021 | 1:53:46 PM | 0.836 | 0.28 | 24.39 | 732 |
| 7/27/2021 | 2:23:46 PM | 0.911 | 0.30 | 30.58 | 917 |
| 7/27/2021 | 2:53:46 PM | 0.884 | 0.30 | 28.25 | 848 |
| 7/27/2021 | 3:23:46 PM | 0.932 | 0.31 | 32.47 | 974 |
| 7/27/2021 | 3:53:46 PM | 0.879 | 0.29 | 27.83 | 835 |
| 7/27/2021 | 4:23:46 PM | 0.934 | 0.31 | 32.65 | 979 |
| 7/27/2021 | 4:53:46 PM | 0.904 | 0.30 | 29.96 | 899 |
| 7/27/2021 | 5:23:46 PM | 0.913 | 0.31 | 30.75 | 923 |
| 7/27/2021 | 5:53:46 PM | 0.865 | 0.29 | 26.68 | 800 |
| 7/27/2021 | 6:23:46 PM | 1.046 | 0.35 | 43.98 | 1,319 |
| 7/27/2021 | 6:53:46 PM | 1.222 | 0.41 | 66.20 | 1,986 |
| 7/27/2021 | 7:23:46 PM | 0.867 | 0.29 | 26.84 | 805 |
| 7/27/2021 | 7:53:46 PM | 0.859 | 0.29 | 26.20 | 786 |
| 7/27/2021 | 8:23:46 PM | 0.885 | 0.30 | 28.34 | 850 |
| 7/27/2021 | 8:53:46 PM | 0.905 | 0.30 | 30.05 | 902 |
| 7/27/2021 | 9:23:46 PM | 0.859 | 0.29 | 26.20 | 786 |
| 7/27/2021 | 9:53:46 PM | 0.855 | 0.29 | 25.88 | 776 |
| 7/27/2021 | 10:23:46 PM | 0.889 | 0.30 | 28.67 | 860 |
| 7/27/2021 | 10:53:46 PM | 0.936 | 0.31 | 32.83 | 985 |
| 7/27/2021 | 11:23:46 PM | 0.877 | 0.29 | 27.67 | 830 |
| 7/27/2021 | 11:53:46 PM | 0.887 | 0.30 | 28.50 | 855 |
| 7/28/2021 | 12:23:46 AM | 0.873 | 0.29 | 27.34 | 820 |
| 7/28/2021 | 12:53:46 AM | 0.863 | 0.29 | 26.52 | 796 |
| 7/28/2021 | 1:23:46 AM | 0.861 | 0.29 | 26.36 | 791 |
| 7/28/2021 | 1:53:46 AM | 0.815 | 0.27 | 22.81 | 684 |
| 7/28/2021 | 2:23:46 AM | 0.878 | 0.29 | 27.75 | 832 |

**TABLE B3-1**
**SEEP C FLUME DATA - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Time | Water Level (kPa) | Water Level (ft) | Flow Rate (gpm) | Flow Volume (Gallon) |
|---|---|---|---|---|---|
| 7/28/2021 | 2:53:46 AM | 0.836 | 0.28 | 24.39 | 732 |
| 7/28/2021 | 3:23:46 AM | 0.896 | 0.30 | 29.27 | 878 |
| 7/28/2021 | 3:53:46 AM | 0.866 | 0.29 | 26.76 | 803 |
| 7/28/2021 | 4:23:46 AM | 0.874 | 0.29 | 27.42 | 823 |
| 7/28/2021 | 4:53:46 AM | 0.871 | 0.29 | 27.17 | 815 |
| 7/28/2021 | 5:23:46 AM | 0.901 | 0.30 | 29.70 | 891 |
| 7/28/2021 | 5:53:46 AM | 0.963 | 0.32 | 35.38 | 1,062 |
| 7/28/2021 | 6:23:46 AM | 0.889 | 0.30 | 28.67 | 860 |
| 7/28/2021 | 6:53:46 AM | 0.878 | 0.29 | 27.75 | 832 |
| 7/28/2021 | 7:23:46 AM | 0.868 | 0.29 | 26.93 | 808 |
| 7/28/2021 | 7:53:46 AM | 0.877 | 0.29 | 27.67 | 830 |
| 7/28/2021 | 8:23:46 AM | 0.887 | 0.30 | 28.50 | 855 |
| 7/28/2021 | 8:53:46 AM | 0.915 | 0.31 | 30.93 | 928 |
| 7/28/2021 | 9:23:46 AM | 0.913 | 0.31 | 30.75 | 923 |
| 7/28/2021 | 9:53:46 AM | 0.954 | 0.32 | 34.52 | 1,036 |
| 7/28/2021 | 10:23:46 AM | 0.922 | 0.31 | 31.56 | 947 |
| 7/28/2021 | 10:53:46 AM | 0.919 | 0.31 | 31.29 | 939 |
| 7/28/2021 | 11:23:46 AM | 0.903 | 0.30 | 29.88 | 896 |
| 7/28/2021 | 11:53:46 AM | 0.878 | 0.29 | 27.75 | 832 |
| 5/26/2021 | 12:15:22 PM | 1.014 | 0.34 | 40.53 | 1,216 |
| 5/26/2021 | 12:45:22 PM | 0.969 | 0.32 | 35.97 | 1,079 |
| 5/26/2021 | 1:15:22 PM | 0.973 | 0.33 | 36.36 | 1,091 |
| 5/26/2021 | 1:45:22 PM | 0.853 | 0.29 | 25.72 | 772 |
| 5/26/2021 | 2:15:22 PM | 0.976 | 0.33 | 36.65 | 1,100 |
| 5/26/2021 | 2:45:22 PM | 0.85 | 0.28 | 25.48 | 764 |
| 5/26/2021 | 3:15:22 PM | 1.033 | 0.35 | 42.55 | 1,277 |
| 5/26/2021 | 3:45:22 PM | 0.947 | 0.32 | 33.86 | 1,016 |
| 5/26/2021 | 4:15:22 PM | 1.017 | 0.34 | 40.84 | 1,225 |
| 5/26/2021 | 4:45:22 PM | 0.938 | 0.31 | 33.02 | 991 |
| 5/26/2021 | 5:15:22 PM | 1.059 | 0.35 | 45.43 | 1,363 |
| 5/26/2021 | 5:45:22 PM | 1.014 | 0.34 | 40.53 | 1,216 |
| 5/26/2021 | 6:15:22 PM | 1.036 | 0.35 | 42.88 | 1,286 |
| 5/26/2021 | 6:45:22 PM | 0.995 | 0.33 | 38.56 | 1,157 |
| 5/26/2021 | 7:15:22 PM | 0.982 | 0.33 | 37.25 | 1,117 |
| 5/26/2021 | 7:45:22 PM | 0.935 | 0.31 | 32.74 | 982 |
| 5/26/2021 | 8:15:22 PM | 0.916 | 0.31 | 31.02 | 931 |
| 5/26/2021 | 8:45:22 PM | 0.969 | 0.32 | 35.97 | 1,079 |
| 5/26/2021 | 9:15:22 PM | 0.884 | 0.30 | 28.25 | 848 |
| 5/26/2021 | 9:45:22 PM | 0.917 | 0.31 | 31.11 | 933 |
| 5/26/2021 | 10:15:22 PM | 0.854 | 0.29 | 25.80 | 774 |
| 5/26/2021 | 10:45:22 PM | 0.88 | 0.29 | 27.92 | 837 |
| 5/26/2021 | 11:15:22 PM | 0.828 | 0.28 | 23.78 | 714 |
| 5/26/2021 | 11:45:22 PM | 0.839 | 0.28 | 24.62 | 739 |
| **Total** | | | | | **42,140** |

Acronyms:
ft - feet
gal - gallons
gpm - gallons per minute
kPa - kilopascals
* - Flow volumes are calculated as the total volume of flow passing through the flume for the duration of the interval where the interval duration is calculated as the time between the present recording and the previous recording.

**TABLE B3-2**
**SEEP C FLUME DATA - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Time | Water Level (kPa) | Water Level (ft) | Flow Rate (gpm) | Flow Volume (Gallon) |
|---|---|---|---|---|---|
| 8/18/2021 | 12:07:06 AM | 1.031 | 0.34 | 42.34 | 1,270 |
| 8/18/2021 | 12:37:06 AM | 1.085 | 0.36 | 48.42 | 1,453 |
| 8/18/2021 | 1:07:06 AM | 1.004 | 0.34 | 39.48 | 1,185 |
| 8/18/2021 | 1:37:06 AM | 0.962 | 0.32 | 35.29 | 1,059 |
| 8/18/2021 | 2:07:06 AM | 0.989 | 0.33 | 37.95 | 1,139 |
| 8/18/2021 | 2:37:06 AM | 0.983 | 0.33 | 37.35 | 1,120 |
| 8/18/2021 | 3:07:06 AM | 1.02 | 0.34 | 41.16 | 1,235 |
| 8/18/2021 | 3:37:06 AM | 1.095 | 0.37 | 49.60 | 1,488 |
| 8/18/2021 | 4:07:06 AM | 1.015 | 0.34 | 40.63 | 1,219 |
| 8/18/2021 | 4:37:06 AM | 0.986 | 0.33 | 37.65 | 1,129 |
| 8/18/2021 | 5:07:06 AM | 1.007 | 0.34 | 39.80 | 1,194 |
| 8/18/2021 | 5:37:06 AM | 0.995 | 0.33 | 38.56 | 1,157 |
| 8/18/2021 | 6:07:06 AM | 1.043 | 0.35 | 43.65 | 1,309 |
| 8/18/2021 | 6:37:06 AM | 1.14 | 0.38 | 55.15 | 1,654 |
| 8/18/2021 | 7:07:06 AM | 1.005 | 0.34 | 39.59 | 1,188 |
| 8/18/2021 | 7:37:06 AM | 1.025 | 0.34 | 41.69 | 1,251 |
| 8/18/2021 | 8:07:06 AM | 1.032 | 0.35 | 42.45 | 1,273 |
| 8/18/2021 | 8:37:06 AM | 1.052 | 0.35 | 44.64 | 1,339 |
| 8/18/2021 | 9:07:06 AM | 1.039 | 0.35 | 43.21 | 1,296 |
| 8/18/2021 | 9:37:06 AM | 1.017 | 0.34 | 40.84 | 1,225 |
| 8/18/2021 | 10:07:06 AM | 1.083 | 0.36 | 48.19 | 1,446 |
| 8/18/2021 | 10:37:06 AM | 1.342 | 0.45 | 84.69 | 2,541 |
| 8/18/2021 | 11:07:06 AM | 1.257 | 0.42 | 71.30 | 2,139 |
| 8/18/2021 | 11:37:06 AM | 1.182 | 0.40 | 60.65 | 1,820 |
| 8/18/2021 | 12:07:06 PM | 1.147 | 0.38 | 56.04 | 1,681 |
| 8/18/2021 | 12:37:06 PM | 1.052 | 0.35 | 44.64 | 1,339 |
| 8/18/2021 | 1:07:06 PM | 1.109 | 0.37 | 51.29 | 1,539 |
| 8/18/2021 | 1:37:06 PM | 1.073 | 0.36 | 47.03 | 1,411 |
| 8/18/2021 | 2:07:06 PM | 1.085 | 0.36 | 48.42 | 1,453 |
| 8/18/2021 | 2:37:06 PM | 1.057 | 0.35 | 45.20 | 1,356 |
| 8/18/2021 | 3:07:06 PM | 1.027 | 0.34 | 41.91 | 1,257 |
| 8/18/2021 | 3:37:06 PM | 0.932 | 0.31 | 32.47 | 974 |
| 8/18/2021 | 4:07:06 PM | 1.049 | 0.35 | 44.31 | 1,329 |
| 8/18/2021 | 4:37:06 PM | 1.012 | 0.34 | 40.32 | 1,210 |
| 8/18/2021 | 5:07:06 PM | 1.035 | 0.35 | 42.77 | 1,283 |
| 8/18/2021 | 5:37:06 PM | 1.035 | 0.35 | 42.77 | 1,283 |
| 8/18/2021 | 6:07:06 PM | 1.001 | 0.33 | 39.17 | 1,175 |
| 8/18/2021 | 6:37:06 PM | 0.985 | 0.33 | 37.55 | 1,126 |
| 8/18/2021 | 7:07:06 PM | 1.032 | 0.35 | 42.45 | 1,273 |
| 8/18/2021 | 7:37:06 PM | 1.09 | 0.36 | 49.01 | 1,470 |
| 8/18/2021 | 8:07:06 PM | 1.003 | 0.34 | 39.38 | 1,181 |
| 8/18/2021 | 8:37:06 PM | 1.052 | 0.35 | 44.64 | 1,339 |
| 8/18/2021 | 9:07:06 PM | 0.976 | 0.33 | 36.65 | 1,100 |
| 8/18/2021 | 9:37:06 PM | 1.008 | 0.34 | 39.90 | 1,197 |
| 8/18/2021 | 10:07:06 PM | 0.978 | 0.33 | 36.85 | 1,106 |
| 8/18/2021 | 10:37:06 PM | 1 | 0.33 | 39.07 | 1,172 |
| 8/18/2021 | 11:07:06 PM | 0.961 | 0.32 | 35.19 | 1,056 |
| 8/18/2021 | 11:37:06 PM | 0.967 | 0.32 | 35.77 | 1,073 |
| 8/19/2021 | 12:07:06 AM | 0.965 | 0.32 | 35.58 | 1,067 |
| 8/19/2021 | 12:37:06 AM | 0.963 | 0.32 | 35.38 | 1,062 |
| 8/19/2021 | 1:07:06 AM | 0.953 | 0.32 | 34.43 | 1,033 |
| 8/19/2021 | 1:37:06 AM | 0.905 | 0.30 | 30.05 | 902 |
| 8/19/2021 | 2:07:06 AM | 0.963 | 0.32 | 35.38 | 1,062 |

**TABLE B3-2**
**SEEP C FLUME DATA - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Time | Water Level (kPa) | Water Level (ft) | Flow Rate (gpm) | Flow Volume (Gallon) |
|---|---|---|---|---|---|
| 8/19/2021 | 2:37:06 AM | 0.911 | 0.30 | 30.58 | 917 |
| 8/19/2021 | 3:07:06 AM | 0.976 | 0.33 | 36.65 | 1,100 |
| 8/19/2021 | 3:37:06 AM | 0.952 | 0.32 | 34.33 | 1,030 |
| 8/19/2021 | 4:07:06 AM | 0.969 | 0.32 | 35.97 | 1,079 |
| 8/19/2021 | 4:37:06 AM | 0.965 | 0.32 | 35.58 | 1,067 |
| 8/19/2021 | 5:07:06 AM | 0.984 | 0.33 | 37.45 | 1,123 |
| 8/19/2021 | 5:37:06 AM | 1 | 0.33 | 39.07 | 1,172 |
| 8/19/2021 | 6:07:06 AM | 0.959 | 0.32 | 35.00 | 1,050 |
| 8/19/2021 | 6:37:06 AM | 0.979 | 0.33 | 36.95 | 1,109 |
| 8/19/2021 | 7:07:06 AM | 0.946 | 0.32 | 33.76 | 1,013 |
| 8/19/2021 | 7:37:06 AM | 0.942 | 0.32 | 33.39 | 1,002 |
| 8/19/2021 | 8:07:06 AM | 0.942 | 0.32 | 33.39 | 1,002 |
| 8/19/2021 | 8:37:06 AM | 0.944 | 0.32 | 33.58 | 1,007 |
| 8/19/2021 | 9:07:06 AM | 0.978 | 0.33 | 36.85 | 1,106 |
| 8/19/2021 | 9:37:06 AM | 0.932 | 0.31 | 32.47 | 974 |
| 8/19/2021 | 10:07:06 AM | 0.985 | 0.33 | 37.55 | 1,126 |
| 8/19/2021 | 10:37:06 AM | 0.954 | 0.32 | 34.52 | 1,036 |
| 8/19/2021 | 11:07:06 AM | 0.997 | 0.33 | 38.76 | 1,163 |
| 8/19/2021 | 11:37:06 AM | 0.987 | 0.33 | 37.75 | 1,132 |
| 8/19/2021 | 12:07:06 PM | 0.96 | 0.32 | 35.09 | 1,053 |
| 8/19/2021 | 12:37:06 PM | 0.878 | 0.29 | 27.75 | 832 |
| 8/19/2021 | 1:07:06 PM | 0.981 | 0.33 | 37.15 | 1,114 |
| 8/19/2021 | 1:37:06 PM | 0.923 | 0.31 | 31.65 | 949 |
| 8/19/2021 | 2:07:06 PM | 0.969 | 0.32 | 35.97 | 1,079 |
| 8/19/2021 | 2:37:06 PM | 0.888 | 0.30 | 28.59 | 858 |
| 8/19/2021 | 3:07:06 PM | 0.957 | 0.32 | 34.81 | 1,044 |
| 8/19/2021 | 3:37:06 PM | 0.852 | 0.29 | 25.64 | 769 |
| 8/19/2021 | 4:07:06 PM | 0.957 | 0.32 | 34.81 | 1,044 |
| 8/19/2021 | 4:37:06 PM | 0.9 | 0.30 | 29.62 | 888 |
| 8/19/2021 | 5:07:06 PM | 0.984 | 0.33 | 37.45 | 1,123 |
| 8/19/2021 | 5:37:06 PM | 0.978 | 0.33 | 36.85 | 1,106 |
| 8/19/2021 | 6:07:06 PM | 0.953 | 0.32 | 34.43 | 1,033 |
| 8/19/2021 | 6:37:06 PM | 0.914 | 0.31 | 30.84 | 925 |
| 8/19/2021 | 7:07:06 PM | 0.964 | 0.32 | 35.48 | 1,064 |
| 8/19/2021 | 7:37:06 PM | 0.981 | 0.33 | 37.15 | 1,114 |
| 8/19/2021 | 8:07:06 PM | 0.97 | 0.32 | 36.06 | 1,082 |
| 8/19/2021 | 8:37:06 PM | 1.004 | 0.34 | 39.48 | 1,185 |
| 8/19/2021 | 9:07:06 PM | 0.974 | 0.33 | 36.46 | 1,094 |
| 8/19/2021 | 9:37:06 PM | 1.101 | 0.37 | 50.32 | 1,510 |
| 8/19/2021 | 10:07:06 PM | 0.96 | 0.32 | 35.09 | 1,053 |
| 8/19/2021 | 10:37:06 PM | 0.957 | 0.32 | 34.81 | 1,044 |
| 8/19/2021 | 11:07:06 PM | 0.974 | 0.33 | 36.46 | 1,094 |
| 8/19/2021 | 11:37:06 PM | 1.216 | 0.41 | 65.35 | 1,960 |
| **Total** | | | | | **57,759** |

Acronyms:
ft - feet
gal - gallons
gpm - gallons per minute
kPa - kilopascals
* - Flow volumes are calculated as the total volume of flow passing through the flume for the duration of the interval where the interval duration is calculated as the time between the present recording and the previous recording.

**TABLE B3-3**
**SEEP C FLUME DATA - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Time | Water Level (kPa) | Water Level (ft) | Flow Rate (gpm) | Flow Volume (Gallon) |
|---|---|---|---|---|---|
| 9/14/2021 | 12:16:29 AM | 0.951 | 0.32 | 34.24 | 1,027 |
| 9/14/2021 | 12:46:29 AM | 0.939 | 0.31 | 33.11 | 993 |
| 9/14/2021 | 1:16:29 AM | 0.942 | 0.32 | 33.39 | 1,002 |
| 9/14/2021 | 1:46:29 AM | 0.921 | 0.31 | 31.47 | 944 |
| 9/14/2021 | 2:16:29 AM | 0.933 | 0.31 | 32.56 | 977 |
| 9/14/2021 | 2:46:29 AM | 0.888 | 0.30 | 28.59 | 858 |
| 9/14/2021 | 3:16:29 AM | 0.955 | 0.32 | 34.62 | 1,038 |
| 9/14/2021 | 3:46:29 AM | 0.928 | 0.31 | 32.10 | 963 |
| 9/14/2021 | 4:16:29 AM | 0.942 | 0.32 | 33.39 | 1,002 |
| 9/14/2021 | 4:46:29 AM | 0.941 | 0.31 | 33.30 | 999 |
| 9/14/2021 | 5:16:29 AM | 0.957 | 0.32 | 34.81 | 1,044 |
| 9/14/2021 | 5:46:29 AM | 0.965 | 0.32 | 35.58 | 1,067 |
| 9/14/2021 | 6:16:29 AM | 0.967 | 0.32 | 35.77 | 1,073 |
| 9/14/2021 | 6:46:29 AM | 0.972 | 0.33 | 36.26 | 1,088 |
| 9/14/2021 | 7:16:29 AM | 0.993 | 0.33 | 38.36 | 1,151 |
| 9/14/2021 | 7:46:29 AM | 1.047 | 0.35 | 44.09 | 1,323 |
| 9/14/2021 | 8:16:29 AM | 0.961 | 0.32 | 35.19 | 1,056 |
| 9/14/2021 | 8:46:29 AM | 0.969 | 0.32 | 35.97 | 1,079 |
| 9/14/2021 | 9:16:29 AM | 0.968 | 0.32 | 35.87 | 1,076 |
| 9/14/2021 | 9:46:29 AM | 0.992 | 0.33 | 38.26 | 1,148 |
| 9/14/2021 | 10:16:29 AM | 0.984 | 0.33 | 37.45 | 1,123 |
| 9/14/2021 | 10:46:29 AM | 0.983 | 0.33 | 37.35 | 1,120 |
| 9/14/2021 | 11:16:29 AM | 0.989 | 0.33 | 37.95 | 1,139 |
| 9/14/2021 | 11:46:29 AM | 0.929 | 0.31 | 32.19 | 966 |
| 9/14/2021 | 12:16:29 PM | 0.995 | 0.33 | 38.56 | 1,157 |
| 9/14/2021 | 12:46:29 PM | 0.934 | 0.31 | 32.65 | 979 |
| 9/14/2021 | 1:16:29 PM | 0.973 | 0.33 | 36.36 | 1,091 |
| 9/14/2021 | 1:46:29 PM | 0.887 | 0.30 | 28.50 | 855 |
| 9/14/2021 | 2:16:29 PM | 0.998 | 0.33 | 38.87 | 1,166 |
| 9/14/2021 | 2:46:29 PM | 0.916 | 0.31 | 31.02 | 931 |
| 9/14/2021 | 3:16:29 PM | 0.983 | 0.33 | 37.35 | 1,120 |
| 9/14/2021 | 3:46:29 PM | 0.926 | 0.31 | 31.92 | 958 |
| 9/14/2021 | 4:16:29 PM | 1.019 | 0.34 | 41.05 | 1,232 |
| 9/14/2021 | 4:46:29 PM | 0.976 | 0.33 | 36.65 | 1,100 |
| 9/14/2021 | 5:16:29 PM | 1.05 | 0.35 | 44.42 | 1,333 |
| 9/14/2021 | 5:46:29 PM | 1.045 | 0.35 | 43.87 | 1,316 |
| 9/14/2021 | 6:16:29 PM | 1.019 | 0.34 | 41.05 | 1,232 |
| 9/14/2021 | 6:46:29 PM | 1.038 | 0.35 | 43.10 | 1,293 |
| 9/14/2021 | 7:16:29 PM | 0.993 | 0.33 | 38.36 | 1,151 |
| 9/14/2021 | 7:46:29 PM | 1.009 | 0.34 | 40.00 | 1,200 |
| 9/14/2021 | 8:16:29 PM | 1.009 | 0.34 | 40.00 | 1,200 |
| 9/14/2021 | 8:46:29 PM | 1.1 | 0.37 | 50.20 | 1,506 |
| 9/14/2021 | 9:16:29 PM | 0.98 | 0.33 | 37.05 | 1,111 |
| 9/14/2021 | 9:46:29 PM | 1.019 | 0.34 | 41.05 | 1,232 |
| 9/14/2021 | 10:16:29 PM | 0.976 | 0.33 | 36.65 | 1,100 |
| 9/14/2021 | 10:46:29 PM | 1.019 | 0.34 | 41.05 | 1,232 |
| 9/14/2021 | 11:16:29 PM | 0.966 | 0.32 | 35.67 | 1,070 |
| 9/14/2021 | 11:46:29 PM | 0.976 | 0.33 | 36.65 | 1,100 |
| 9/15/2021 | 12:16:29 AM | 0.907 | 0.30 | 30.23 | 907 |
| 9/15/2021 | 12:46:29 AM | 0.87 | 0.29 | 27.09 | 813 |
| 9/15/2021 | 1:16:29 AM | 0.94 | 0.31 | 33.20 | 996 |
| 9/15/2021 | 1:46:29 AM | 0.928 | 0.31 | 32.10 | 963 |
| 9/15/2021 | 2:16:29 AM | 0.951 | 0.32 | 34.24 | 1,027 |

**TABLE B3-3**
**SEEP C FLUME DATA - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Time | Water Level (kPa) | Water Level (ft) | Flow Rate (gpm) | Flow Volume (Gallon) |
|---|---|---|---|---|---|
| 9/15/2021 | 2:46:29 AM | 0.911 | 0.30 | 30.58 | 917 |
| 9/15/2021 | 3:16:29 AM | 0.933 | 0.31 | 32.56 | 977 |
| 9/15/2021 | 3:46:29 AM | 0.908 | 0.30 | 30.31 | 909 |
| 9/15/2021 | 4:16:29 AM | 0.958 | 0.32 | 34.90 | 1,047 |
| 9/15/2021 | 4:46:29 AM | 0.944 | 0.32 | 33.58 | 1,007 |
| 9/15/2021 | 5:16:29 AM | 0.954 | 0.32 | 34.52 | 1,036 |
| 9/15/2021 | 5:46:29 AM | 0.953 | 0.32 | 34.43 | 1,033 |
| 9/15/2021 | 6:16:29 AM | 1.004 | 0.34 | 39.48 | 1,185 |
| 9/15/2021 | 6:46:29 AM | 1.049 | 0.35 | 44.31 | 1,329 |
| 9/15/2021 | 7:16:29 AM | 0.965 | 0.32 | 35.58 | 1,067 |
| 9/15/2021 | 7:46:29 AM | 0.963 | 0.32 | 35.38 | 1,062 |
| 9/15/2021 | 8:16:29 AM | 0.965 | 0.32 | 35.58 | 1,067 |
| 9/15/2021 | 8:46:29 AM | 0.978 | 0.33 | 36.85 | 1,106 |
| 9/15/2021 | 9:16:29 AM | 0.989 | 0.33 | 37.95 | 1,139 |
| 9/15/2021 | 9:46:29 AM | 1.023 | 0.34 | 41.48 | 1,244 |
| 9/15/2021 | 10:16:29 AM | 0.982 | 0.33 | 37.25 | 1,117 |
| 9/15/2021 | 10:46:29 AM | 0.982 | 0.33 | 37.25 | 1,117 |
| 9/15/2021 | 11:16:29 AM | 0.982 | 0.33 | 37.25 | 1,117 |
| 9/15/2021 | 11:46:29 AM | 0.901 | 0.30 | 29.70 | 891 |
| 9/15/2021 | 12:16:29 PM | 0.958 | 0.32 | 34.90 | 1,047 |
| 9/15/2021 | 12:46:29 PM | 0.937 | 0.31 | 32.93 | 988 |
| 9/15/2021 | 1:16:29 PM | 0.904 | 0.30 | 29.96 | 899 |
| 9/15/2021 | 1:46:29 PM | 0.807 | 0.27 | 22.23 | 667 |
| 9/15/2021 | 2:16:29 PM | 0.941 | 0.31 | 33.30 | 999 |
| 9/15/2021 | 2:46:29 PM | 0.833 | 0.28 | 24.16 | 725 |
| 9/15/2021 | 3:16:29 PM | 0.905 | 0.30 | 30.05 | 902 |
| 9/15/2021 | 3:46:29 PM | 0.889 | 0.30 | 28.67 | 860 |
| 9/15/2021 | 4:16:29 PM | 0.882 | 0.30 | 28.08 | 842 |
| 9/15/2021 | 4:46:29 PM | 0.849 | 0.28 | 25.40 | 762 |
| 9/15/2021 | 5:16:29 PM | 0.925 | 0.31 | 31.83 | 955 |
| 9/15/2021 | 5:46:29 PM | 0.933 | 0.31 | 32.56 | 977 |
| 9/15/2021 | 6:16:29 PM | 0.973 | 0.33 | 36.36 | 1,091 |
| 9/15/2021 | 6:46:29 PM | 1.081 | 0.36 | 47.95 | 1,439 |
| 9/15/2021 | 7:16:29 PM | 1 | 0.33 | 39.07 | 1,172 |
| 9/15/2021 | 7:46:29 PM | 1.068 | 0.36 | 46.45 | 1,394 |
| 9/15/2021 | 8:16:29 PM | 1.02 | 0.34 | 41.16 | 1,235 |
| 9/15/2021 | 8:46:29 PM | 1.104 | 0.37 | 50.68 | 1,521 |
| 9/15/2021 | 9:16:29 PM | 1.038 | 0.35 | 43.10 | 1,293 |
| 9/15/2021 | 9:46:29 PM | 1.115 | 0.37 | 52.02 | 1,561 |
| 9/15/2021 | 10:16:29 PM | 0.978 | 0.33 | 36.85 | 1,106 |
| 9/15/2021 | 10:46:29 PM | 0.979 | 0.33 | 36.95 | 1,109 |
| 9/15/2021 | 11:16:29 PM | 0.98 | 0.33 | 37.05 | 1,111 |
| 9/15/2021 | 11:46:29 PM | 0.983 | 0.33 | 37.35 | 1,120 |
| **Total** | | | | | **51,089** |

Acronyms:
ft - feet
gal - gallons
gpm - gallons per minute
kPa - kilopascals
* - Flow volumes are calculated as the total volume of flow passing through the flume for the duration of the interval where the interval duration is calculated as the time between the present recording and the previous recording.

**TABLE B4-1**
**SEEP D FLUME DATA - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Time | Water Level (kPa) | Water Level (ft) | Flow Rate (gpm) | Flow Volume (Gallon) |
|---|---|---|---|---|---|
| 7/27/2021 | 12:13:57 AM | 1.488 | 0.50 | 111.12 | 3,334 |
| 7/27/2021 | 12:43:57 AM | 1.63 | 0.55 | 141.23 | 4,237 |
| 7/27/2021 | 1:13:57 AM | 1.482 | 0.50 | 109.95 | 3,298 |
| 7/27/2021 | 1:43:57 AM | 1.397 | 0.47 | 94.13 | 2,824 |
| 7/27/2021 | 2:13:57 AM | 1.494 | 0.50 | 112.31 | 3,369 |
| 7/27/2021 | 2:43:57 AM | 1.568 | 0.52 | 127.53 | 3,826 |
| 7/27/2021 | 3:13:57 AM | 1.488 | 0.50 | 111.12 | 3,334 |
| 7/27/2021 | 3:43:57 AM | 1.538 | 0.51 | 121.22 | 3,636 |
| 7/27/2021 | 4:13:57 AM | 1.507 | 0.50 | 114.89 | 3,447 |
| 7/27/2021 | 4:43:57 AM | 1.595 | 0.53 | 133.39 | 4,002 |
| 7/27/2021 | 5:13:57 AM | 1.764 | 0.59 | 173.84 | 5,215 |
| 7/27/2021 | 5:43:57 AM | 1.481 | 0.50 | 109.75 | 3,293 |
| 7/27/2021 | 6:13:57 AM | 1.542 | 0.52 | 122.05 | 3,661 |
| 7/27/2021 | 6:43:57 AM | 1.558 | 0.52 | 125.41 | 3,762 |
| 7/27/2021 | 7:13:57 AM | 1.549 | 0.52 | 123.51 | 3,705 |
| 7/27/2021 | 7:43:57 AM | 1.535 | 0.51 | 120.59 | 3,618 |
| 7/27/2021 | 8:13:57 AM | 1.557 | 0.52 | 125.19 | 3,756 |
| 7/27/2021 | 8:43:57 AM | 1.538 | 0.51 | 121.22 | 3,636 |
| 7/27/2021 | 9:13:57 AM | 1.587 | 0.53 | 131.64 | 3,949 |
| 7/27/2021 | 9:43:57 AM | 1.639 | 0.55 | 143.29 | 4,299 |
| 7/27/2021 | 10:13:57 AM | 1.602 | 0.54 | 134.94 | 4,048 |
| 7/27/2021 | 10:43:57 AM | 1.618 | 0.54 | 138.51 | 4,155 |
| 7/27/2021 | 11:13:57 AM | 1.624 | 0.54 | 139.86 | 4,196 |
| 7/27/2021 | 11:43:57 AM | 1.645 | 0.55 | 144.67 | 4,340 |
| 7/27/2021 | 12:13:57 PM | 1.616 | 0.54 | 138.06 | 4,142 |
| 7/27/2021 | 12:43:57 PM | 1.563 | 0.52 | 126.47 | 3,794 |
| 7/27/2021 | 1:13:57 PM | 1.606 | 0.54 | 135.82 | 4,075 |
| 7/27/2021 | 1:43:57 PM | 1.553 | 0.52 | 124.35 | 3,730 |
| 7/27/2021 | 2:13:57 PM | 1.628 | 0.54 | 140.77 | 4,223 |
| 7/27/2021 | 2:43:57 PM | 1.578 | 0.53 | 129.68 | 3,891 |
| 7/27/2021 | 3:13:57 PM | 1.645 | 0.55 | 144.67 | 4,340 |
| 7/27/2021 | 3:43:57 PM | 1.589 | 0.53 | 132.07 | 3,962 |
| 7/27/2021 | 4:13:57 PM | 1.627 | 0.54 | 140.54 | 4,216 |
| 7/27/2021 | 4:43:57 PM | 1.612 | 0.54 | 137.16 | 4,115 |
| 7/27/2021 | 5:13:57 PM | 1.612 | 0.54 | 137.16 | 4,115 |
| 7/27/2021 | 5:43:57 PM | 1.554 | 0.52 | 124.56 | 3,737 |
| 7/27/2021 | 6:13:57 PM | 1.645 | 0.55 | 144.67 | 4,340 |
| 7/27/2021 | 6:43:57 PM | 1.921 | 0.64 | 217.54 | 6,526 |
| 7/27/2021 | 7:13:57 PM | 1.576 | 0.53 | 129.25 | 3,878 |
| 7/27/2021 | 7:43:57 PM | 1.504 | 0.50 | 114.29 | 3,429 |
| 7/27/2021 | 8:13:57 PM | 1.564 | 0.52 | 126.68 | 3,800 |
| 7/27/2021 | 8:43:57 PM | 1.544 | 0.52 | 122.46 | 3,674 |
| 7/27/2021 | 9:13:57 PM | 1.556 | 0.52 | 124.98 | 3,749 |
| 7/27/2021 | 9:43:57 PM | 1.525 | 0.51 | 118.54 | 3,556 |
| 7/27/2021 | 10:13:57 PM | 1.556 | 0.52 | 124.98 | 3,749 |
| 7/27/2021 | 10:43:57 PM | 1.578 | 0.53 | 129.68 | 3,891 |
| 7/27/2021 | 11:13:57 PM | 1.547 | 0.52 | 123.09 | 3,693 |
| 7/27/2021 | 11:43:57 PM | 1.562 | 0.52 | 126.25 | 3,788 |
| 7/28/2021 | 12:13:57 AM | 1.545 | 0.52 | 122.67 | 3,680 |
| 7/28/2021 | 12:43:57 AM | 1.52 | 0.51 | 117.52 | 3,526 |
| 7/28/2021 | 1:13:57 AM | 1.539 | 0.51 | 121.42 | 3,643 |
| 7/28/2021 | 1:43:57 AM | 1.479 | 0.49 | 109.37 | 3,281 |
| 7/28/2021 | 2:13:57 AM | 1.548 | 0.52 | 123.30 | 3,699 |

**TABLE B4-1**
**SEEP D FLUME DATA - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Time | Water Level (kPa) | Water Level (ft) | Flow Rate (gpm) | Flow Volume (Gallon) |
|---|---|---|---|---|---|
| 7/28/2021 | 2:43:57 AM | 1.517 | 0.51 | 116.91 | 3,507 |
| 7/28/2021 | 3:13:57 AM | 1.554 | 0.52 | 124.56 | 3,737 |
| 7/28/2021 | 3:43:57 AM | 1.542 | 0.52 | 122.05 | 3,661 |
| 7/28/2021 | 4:13:57 AM | 1.552 | 0.52 | 124.14 | 3,724 |
| 7/28/2021 | 4:43:57 AM | 1.544 | 0.52 | 122.46 | 3,674 |
| 7/28/2021 | 5:13:57 AM | 1.562 | 0.52 | 126.25 | 3,788 |
| 7/28/2021 | 5:43:57 AM | 1.607 | 0.54 | 136.05 | 4,081 |
| 7/28/2021 | 6:13:57 AM | 1.553 | 0.52 | 124.35 | 3,730 |
| 7/28/2021 | 6:43:57 AM | 1.551 | 0.52 | 123.93 | 3,718 |
| 7/28/2021 | 7:13:57 AM | 1.56 | 0.52 | 125.83 | 3,775 |
| 7/28/2021 | 7:43:57 AM | 1.543 | 0.52 | 122.25 | 3,668 |
| 7/28/2021 | 8:13:57 AM | 1.562 | 0.52 | 126.25 | 3,788 |
| 7/28/2021 | 8:43:57 AM | 1.577 | 0.53 | 129.47 | 3,884 |
| 7/28/2021 | 9:13:57 AM | 1.576 | 0.53 | 129.25 | 3,878 |
| 7/28/2021 | 9:43:57 AM | 1.606 | 0.54 | 135.82 | 4,075 |
| 7/28/2021 | 10:13:57 AM | 1.577 | 0.53 | 129.47 | 3,884 |
| 7/28/2021 | 10:43:57 AM | 1.576 | 0.53 | 129.25 | 3,878 |
| 7/28/2021 | 11:13:57 AM | 1.592 | 0.53 | 132.73 | 3,982 |
| 7/28/2021 | 11:43:57 AM | 1.556 | 0.52 | 124.98 | 3,749 |
| 7/28/2021 | 12:13:57 PM | 1.617 | 0.54 | 138.28 | 4,149 |
| **Total** | | | | | **183,878** |

Acronyms:
ft - feet
gal - gallons
gpm - gallons per minute
kPa - kilopascals
* - Flow volumes are calculated as the total volume of flow passing through the flume for the duration of the interval where the interval duration is calculated as the time between the present recording and the previous recording.

**TABLE B4-2**
**SEEP D FLUME DATA - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Time | Water Level (kPa) | Water Level (ft) | Flow Rate (gpm) | Flow Volume (Gallon) |
|---|---|---|---|---|---|
| 8/18/2021 | 12:29:07 AM | 1.511 | 0.51 | 115.70 | 3,471 |
| 8/18/2021 | 12:59:07 AM | 1.435 | 0.48 | 101.01 | 3,030 |
| 8/18/2021 | 1:29:07 AM | 1.386 | 0.46 | 92.19 | 2,766 |
| 8/18/2021 | 1:59:07 AM | 1.434 | 0.48 | 100.83 | 3,025 |
| 8/18/2021 | 2:29:07 AM | 1.392 | 0.47 | 93.25 | 2,797 |
| 8/18/2021 | 2:59:07 AM | 1.446 | 0.48 | 103.06 | 3,092 |
| 8/18/2021 | 3:29:07 AM | 1.507 | 0.50 | 114.89 | 3,447 |
| 8/18/2021 | 3:59:07 AM | 1.443 | 0.48 | 102.50 | 3,075 |
| 8/18/2021 | 4:29:07 AM | 1.44 | 0.48 | 101.94 | 3,058 |
| 8/18/2021 | 4:59:07 AM | 1.449 | 0.48 | 103.63 | 3,109 |
| 8/18/2021 | 5:29:07 AM | 1.435 | 0.48 | 101.01 | 3,030 |
| 8/18/2021 | 5:59:07 AM | 1.468 | 0.49 | 107.24 | 3,217 |
| 8/18/2021 | 6:29:07 AM | 1.567 | 0.52 | 127.32 | 3,820 |
| 8/18/2021 | 6:59:07 AM | 1.459 | 0.49 | 105.52 | 3,166 |
| 8/18/2021 | 7:29:07 AM | 1.464 | 0.49 | 106.47 | 3,194 |
| 8/18/2021 | 7:59:07 AM | 1.468 | 0.49 | 107.24 | 3,217 |
| 8/18/2021 | 8:29:07 AM | 1.494 | 0.50 | 112.31 | 3,369 |
| 8/18/2021 | 8:59:07 AM | 1.493 | 0.50 | 112.11 | 3,363 |
| 8/18/2021 | 9:29:07 AM | 1.474 | 0.49 | 108.40 | 3,252 |
| 8/18/2021 | 9:59:07 AM | 1.5 | 0.50 | 113.50 | 3,405 |
| 8/18/2021 | 10:29:07 AM | 1.726 | 0.58 | 164.16 | 4,925 |
| 8/18/2021 | 10:59:07 AM | 1.55 | 0.52 | 123.72 | 3,712 |
| 8/18/2021 | 11:29:07 AM | 1.543 | 0.52 | 122.25 | 3,668 |
| 8/18/2021 | 11:59:07 AM | 1.54 | 0.52 | 121.63 | 3,649 |
| 8/18/2021 | 12:29:07 PM | 1.496 | 0.50 | 112.70 | 3,381 |
| 8/18/2021 | 12:59:07 PM | 1.563 | 0.52 | 126.47 | 3,794 |
| 8/18/2021 | 1:29:07 PM | 1.553 | 0.52 | 124.35 | 3,730 |
| 8/18/2021 | 1:59:07 PM | 1.573 | 0.53 | 128.61 | 3,858 |
| 8/18/2021 | 2:29:07 PM | 1.652 | 0.55 | 146.29 | 4,389 |
| 8/18/2021 | 2:59:07 PM | 1.877 | 0.63 | 204.68 | 6,140 |
| 8/18/2021 | 3:29:07 PM | 1.735 | 0.58 | 166.43 | 4,993 |
| 8/18/2021 | 3:59:07 PM | 1.695 | 0.57 | 156.52 | 4,696 |
| 8/18/2021 | 4:29:07 PM | 1.424 | 0.48 | 98.99 | 2,970 |
| 8/18/2021 | 4:59:07 PM | 2.396 | 0.80 | 388.97 | 11,669 |
| 8/18/2021 | 5:29:07 PM | 2.414 | 0.81 | 396.70 | 11,901 |
| 8/18/2021 | 5:59:07 PM | 2.368 | 0.79 | 377.13 | 11,314 |
| 8/18/2021 | 6:29:07 PM | 2.32 | 0.78 | 357.35 | 10,721 |
| 8/18/2021 | 6:59:07 PM | 2.337 | 0.78 | 364.28 | 10,928 |
| 8/18/2021 | 7:29:07 PM | 2.387 | 0.80 | 385.14 | 11,554 |
| 8/18/2021 | 7:59:07 PM | 2.286 | 0.76 | 343.74 | 10,312 |
| 8/18/2021 | 8:29:07 PM | 2.328 | 0.78 | 360.60 | 10,818 |
| 8/18/2021 | 8:59:07 PM | 2.254 | 0.75 | 331.23 | 9,937 |
| 8/18/2021 | 9:29:07 PM | 2.27 | 0.76 | 337.45 | 10,124 |
| 8/18/2021 | 9:59:07 PM | 2.237 | 0.75 | 324.70 | 9,741 |
| 8/18/2021 | 10:29:07 PM | 2.251 | 0.75 | 330.07 | 9,902 |
| 8/18/2021 | 10:59:07 PM | 2.202 | 0.74 | 311.51 | 9,345 |
| 8/18/2021 | 11:29:07 PM | 2.193 | 0.73 | 308.17 | 9,245 |
| 8/18/2021 | 11:59:07 PM | 2.188 | 0.73 | 306.33 | 9,190 |
| 8/19/2021 | 12:29:07 AM | 2.177 | 0.73 | 302.29 | 9,069 |
| 8/19/2021 | 12:59:07 AM | 2.159 | 0.72 | 295.77 | 8,873 |
| 8/19/2021 | 1:29:07 AM | 2.109 | 0.71 | 278.09 | 8,343 |
| 8/19/2021 | 1:59:07 AM | 2.141 | 0.72 | 289.32 | 8,680 |
| 8/19/2021 | 2:29:07 AM | 2.084 | 0.70 | 269.50 | 8,085 |

**TABLE B4-2**
**SEEP D FLUME DATA - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Time | Water Level (kPa) | Water Level (ft) | Flow Rate (gpm) | Flow Volume (Gallon) |
|---|---|---|---|---|---|
| 8/19/2021 | 2:59:07 AM | 2.124 | 0.71 | 283.32 | 8,500 |
| 8/19/2021 | 3:29:07 AM | 2.103 | 0.70 | 276.01 | 8,280 |
| 8/19/2021 | 3:59:07 AM | 2.098 | 0.70 | 274.29 | 8,229 |
| 8/19/2021 | 4:29:07 AM | 2.093 | 0.70 | 272.57 | 8,177 |
| 8/19/2021 | 4:59:07 AM | 2.087 | 0.70 | 270.52 | 8,116 |
| 8/19/2021 | 5:29:07 AM | 2.096 | 0.70 | 273.60 | 8,208 |
| 8/19/2021 | 5:59:07 AM | 2.065 | 0.69 | 263.09 | 7,893 |
| 8/19/2021 | 6:29:07 AM | 2.082 | 0.70 | 268.82 | 8,065 |
| 8/19/2021 | 6:59:07 AM | 2.041 | 0.68 | 255.12 | 7,654 |
| 8/19/2021 | 7:29:07 AM | 2.024 | 0.68 | 249.57 | 7,487 |
| 8/19/2021 | 7:59:07 AM | 2.024 | 0.68 | 249.57 | 7,487 |
| 8/19/2021 | 8:29:07 AM | 2.013 | 0.67 | 246.02 | 7,381 |
| 8/19/2021 | 8:59:07 AM | 2.029 | 0.68 | 251.20 | 7,536 |
| 8/19/2021 | 9:29:07 AM | 1.988 | 0.67 | 238.07 | 7,142 |
| 8/19/2021 | 9:59:07 AM | 2.029 | 0.68 | 251.20 | 7,536 |
| 8/19/2021 | 10:29:07 AM | 1.985 | 0.66 | 237.12 | 7,114 |
| 8/19/2021 | 10:59:07 AM | 2.031 | 0.68 | 251.85 | 7,555 |
| 8/19/2021 | 11:29:07 AM | 1.998 | 0.67 | 241.23 | 7,237 |
| 8/19/2021 | 11:59:07 AM | 1.987 | 0.66 | 237.75 | 7,133 |
| 8/19/2021 | 12:29:07 PM | 1.894 | 0.63 | 209.59 | 6,288 |
| 8/19/2021 | 12:59:07 PM | 1.984 | 0.66 | 236.81 | 7,104 |
| 8/19/2021 | 1:29:07 PM | 1.918 | 0.64 | 216.65 | 6,499 |
| 8/19/2021 | 1:59:07 PM | 1.959 | 0.66 | 229.04 | 6,871 |
| 8/19/2021 | 2:29:07 PM | 1.879 | 0.63 | 205.25 | 6,158 |
| 8/19/2021 | 2:59:07 PM | 1.944 | 0.65 | 224.46 | 6,734 |
| 8/19/2021 | 3:29:07 PM | 1.832 | 0.61 | 192.02 | 5,761 |
| 8/19/2021 | 3:59:07 PM | 1.931 | 0.65 | 220.53 | 6,616 |
| 8/19/2021 | 4:29:07 PM | 1.861 | 0.62 | 200.12 | 6,004 |
| 8/19/2021 | 4:59:07 PM | 1.927 | 0.64 | 219.33 | 6,580 |
| 8/19/2021 | 5:29:07 PM | 1.892 | 0.63 | 209.01 | 6,270 |
| 8/19/2021 | 5:59:07 PM | 1.889 | 0.63 | 208.14 | 6,244 |
| 8/19/2021 | 6:29:07 PM | 1.846 | 0.62 | 195.91 | 5,877 |
| 8/19/2021 | 6:59:07 PM | 1.865 | 0.62 | 201.26 | 6,038 |
| 8/19/2021 | 7:29:07 PM | 1.871 | 0.63 | 202.96 | 6,089 |
| 8/19/2021 | 7:59:07 PM | 1.836 | 0.61 | 193.13 | 5,794 |
| 8/19/2021 | 8:29:07 PM | 1.889 | 0.63 | 208.14 | 6,244 |
| 8/19/2021 | 8:59:07 PM | 1.821 | 0.61 | 189.01 | 5,670 |
| 8/19/2021 | 9:29:07 PM | 1.9 | 0.64 | 211.34 | 6,340 |
| 8/19/2021 | 9:59:07 PM | 1.806 | 0.60 | 184.94 | 5,548 |
| 8/19/2021 | 10:29:07 PM | 1.816 | 0.61 | 187.65 | 5,629 |
| 8/19/2021 | 10:59:07 PM | 1.761 | 0.59 | 173.07 | 5,192 |
| 8/19/2021 | 11:29:07 PM | 2.011 | 0.67 | 245.38 | 7,361 |
| 8/19/2021 | 11:59:07 PM | 1.841 | 0.62 | 194.52 | 5,835 |
| **Total** | | | | | **369,822** |

Acronyms:
ft - feet
gal - gallons
gpm - gallons per minute
kPa - kilopascals
* - Flow volumes are calculated as the total volume of flow passing through the flume for the duration of the interval where the interval duration is calculated as the time between the present recording and the previous recording.

**TABLE B4-3**
**SEEP D FLUME DATA - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Time | Water Level (kPa) | Water Level (ft) | Flow Rate (gpm) | Flow Volume (Gallon) |
|---|---|---|---|---|---|
| 9/14/2021 | 12:00:12 AM | 1.532 | 0.51 | 119.98 | 3,599 |
| 9/14/2021 | 12:30:12 AM | 1.524 | 0.51 | 118.34 | 3,550 |
| 9/14/2021 | 1:00:12 AM | 1.528 | 0.51 | 119.15 | 3,575 |
| 9/14/2021 | 1:30:12 AM | 1.506 | 0.50 | 114.69 | 3,441 |
| 9/14/2021 | 2:00:12 AM | 1.528 | 0.51 | 119.15 | 3,575 |
| 9/14/2021 | 2:30:12 AM | 1.496 | 0.50 | 112.70 | 3,381 |
| 9/14/2021 | 3:00:12 AM | 1.539 | 0.51 | 121.42 | 3,643 |
| 9/14/2021 | 3:30:12 AM | 1.527 | 0.51 | 118.95 | 3,568 |
| 9/14/2021 | 4:00:12 AM | 1.536 | 0.51 | 120.80 | 3,624 |
| 9/14/2021 | 4:30:12 AM | 1.523 | 0.51 | 118.13 | 3,544 |
| 9/14/2021 | 5:00:12 AM | 1.539 | 0.51 | 121.42 | 3,643 |
| 9/14/2021 | 5:30:12 AM | 1.546 | 0.52 | 122.88 | 3,686 |
| 9/14/2021 | 6:00:12 AM | 1.553 | 0.52 | 124.35 | 3,730 |
| 9/14/2021 | 6:30:12 AM | 1.557 | 0.52 | 125.19 | 3,756 |
| 9/14/2021 | 7:00:12 AM | 1.546 | 0.52 | 122.88 | 3,686 |
| 9/14/2021 | 7:30:12 AM | 1.617 | 0.54 | 138.28 | 4,149 |
| 9/14/2021 | 8:00:12 AM | 2.33 | 0.78 | 361.42 | 10,843 |
| 9/14/2021 | 8:30:12 AM | 2.57 | 0.86 | 467.72 | 14,032 |
| 9/14/2021 | 9:00:12 AM | 2.531 | 0.85 | 449.28 | 13,479 |
| 9/14/2021 | 9:30:12 AM | 2.482 | 0.83 | 426.77 | 12,803 |
| 9/14/2021 | 10:00:12 AM | 2.45 | 0.82 | 412.45 | 12,373 |
| 9/14/2021 | 10:30:12 AM | 2.532 | 0.85 | 449.75 | 13,493 |
| 9/14/2021 | 11:00:12 AM | 2.605 | 0.87 | 484.66 | 14,540 |
| 9/14/2021 | 11:30:12 AM | 2.509 | 0.84 | 439.09 | 13,173 |
| 9/14/2021 | 12:00:12 PM | 2.541 | 0.85 | 453.97 | 13,619 |
| 9/14/2021 | 12:30:12 PM | 1.615 | 0.54 | 137.83 | 4,135 |
| 9/14/2021 | 1:00:12 PM | 1.66 | 0.56 | 148.17 | 4,445 |
| 9/14/2021 | 1:30:12 PM | 1.305 | 0.44 | 78.69 | 2,361 |
| 9/14/2021 | 2:00:12 PM | 1.507 | 0.50 | 114.89 | 3,447 |
| 9/14/2021 | 2:30:12 PM | 1.184 | 0.40 | 60.92 | 1,828 |
| 9/14/2021 | 3:00:12 PM | 2.207 | 0.74 | 313.37 | 9,401 |
| 9/14/2021 | 3:30:12 PM | 2.689 | 0.90 | 526.85 | 15,805 |
| 9/14/2021 | 4:00:12 PM | 2.765 | 0.93 | 566.92 | 17,008 |
| 9/14/2021 | 4:30:12 PM | 2.703 | 0.90 | 534.09 | 16,023 |
| 9/14/2021 | 5:00:12 PM | 2.722 | 0.91 | 544.02 | 16,321 |
| 9/14/2021 | 5:30:12 PM | 2.696 | 0.90 | 530.46 | 15,914 |
| 9/14/2021 | 6:00:12 PM | 2.628 | 0.88 | 496.00 | 14,880 |
| 9/14/2021 | 6:30:12 PM | 2.614 | 0.87 | 489.08 | 14,672 |
| 9/14/2021 | 7:00:12 PM | 2.539 | 0.85 | 453.03 | 13,591 |
| 9/14/2021 | 7:30:12 PM | 2.513 | 0.84 | 440.93 | 13,228 |
| 9/14/2021 | 8:00:12 PM | 2.454 | 0.82 | 414.22 | 12,427 |
| 9/14/2021 | 8:30:12 PM | 2.495 | 0.83 | 432.67 | 12,980 |
| 9/14/2021 | 9:00:12 PM | 2.362 | 0.79 | 374.62 | 11,239 |
| 9/14/2021 | 9:30:12 PM | 2.362 | 0.79 | 374.62 | 11,239 |
| 9/14/2021 | 10:00:12 PM | 2.286 | 0.76 | 343.74 | 10,312 |
| 9/14/2021 | 10:30:12 PM | 2.28 | 0.76 | 341.37 | 10,241 |
| 9/14/2021 | 11:00:12 PM | 2.212 | 0.74 | 315.24 | 9,457 |
| 9/14/2021 | 11:30:12 PM | 2.19 | 0.73 | 307.07 | 9,212 |
| 9/15/2021 | 12:00:12 AM | 2.135 | 0.71 | 287.20 | 8,616 |
| 9/15/2021 | 12:30:12 AM | 2.042 | 0.68 | 255.45 | 7,664 |
| 9/15/2021 | 1:00:12 AM | 2.063 | 0.69 | 262.42 | 7,873 |
| 9/15/2021 | 1:30:12 AM | 2.003 | 0.67 | 242.82 | 7,285 |
| 9/15/2021 | 2:00:12 AM | 1.997 | 0.67 | 240.91 | 7,227 |

**TABLE B4-3**
**SEEP D FLUME DATA - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Time | Water Level (kPa) | Water Level (ft) | Flow Rate (gpm) | Flow Volume (Gallon) |
|---|---|---|---|---|---|
| 9/15/2021 | 2:30:12 AM | 1.939 | 0.65 | 222.94 | 6,688 |
| 9/15/2021 | 3:00:12 AM | 1.927 | 0.64 | 219.33 | 6,580 |
| 9/15/2021 | 3:30:12 AM | 1.871 | 0.63 | 202.96 | 6,089 |
| 9/15/2021 | 4:00:12 AM | 1.88 | 0.63 | 205.54 | 6,166 |
| 9/15/2021 | 4:30:12 AM | 1.853 | 0.62 | 197.87 | 5,936 |
| 9/15/2021 | 5:00:12 AM | 1.838 | 0.61 | 193.68 | 5,810 |
| 9/15/2021 | 5:30:12 AM | 1.809 | 0.61 | 185.75 | 5,572 |
| 9/15/2021 | 6:00:12 AM | 1.811 | 0.61 | 186.29 | 5,589 |
| 9/15/2021 | 6:30:12 AM | 1.857 | 0.62 | 198.99 | 5,970 |
| 9/15/2021 | 7:00:12 AM | 1.784 | 0.60 | 179.07 | 5,372 |
| 9/15/2021 | 7:30:12 AM | 1.791 | 0.60 | 180.93 | 5,428 |
| 9/15/2021 | 8:00:12 AM | 1.779 | 0.60 | 177.76 | 5,333 |
| 9/15/2021 | 8:30:12 AM | 1.77 | 0.59 | 175.40 | 5,262 |
| 9/15/2021 | 9:00:12 AM | 1.769 | 0.59 | 175.14 | 5,254 |
| 9/15/2021 | 9:30:12 AM | 1.797 | 0.60 | 182.53 | 5,476 |
| 9/15/2021 | 10:00:12 AM | 1.767 | 0.59 | 174.62 | 5,239 |
| 9/15/2021 | 10:30:12 AM | 1.742 | 0.58 | 168.20 | 5,046 |
| 9/15/2021 | 11:00:12 AM | 1.768 | 0.59 | 174.88 | 5,246 |
| 9/15/2021 | 11:30:12 AM | 1.727 | 0.58 | 164.42 | 4,932 |
| 9/15/2021 | 12:00:12 PM | 1.76 | 0.59 | 172.81 | 5,184 |
| 9/15/2021 | 12:30:12 PM | 1.744 | 0.58 | 168.71 | 5,061 |
| 9/15/2021 | 1:00:12 PM | 1.767 | 0.59 | 174.62 | 5,239 |
| 9/15/2021 | 1:30:12 PM | 1.681 | 0.56 | 153.15 | 4,594 |
| 9/15/2021 | 2:00:12 PM | 1.758 | 0.59 | 172.29 | 5,169 |
| 9/15/2021 | 2:30:12 PM | 1.686 | 0.56 | 154.35 | 4,630 |
| 9/15/2021 | 3:00:12 PM | 1.757 | 0.59 | 172.03 | 5,161 |
| 9/15/2021 | 3:30:12 PM | 1.721 | 0.58 | 162.92 | 4,888 |
| 9/15/2021 | 4:00:12 PM | 1.746 | 0.58 | 169.22 | 5,076 |
| 9/15/2021 | 4:30:12 PM | 1.708 | 0.57 | 159.70 | 4,791 |
| 9/15/2021 | 5:00:12 PM | 1.752 | 0.59 | 170.75 | 5,122 |
| 9/15/2021 | 5:30:12 PM | 1.765 | 0.59 | 174.10 | 5,223 |
| 9/15/2021 | 6:00:12 PM | 1.741 | 0.58 | 167.94 | 5,038 |
| 9/15/2021 | 6:30:12 PM | 1.8 | 0.60 | 183.33 | 5,500 |
| 9/15/2021 | 7:00:12 PM | 1.714 | 0.57 | 161.18 | 4,835 |
| 9/15/2021 | 7:30:12 PM | 1.769 | 0.59 | 175.14 | 5,254 |
| 9/15/2021 | 8:00:12 PM | 1.7 | 0.57 | 157.74 | 4,732 |
| 9/15/2021 | 8:30:12 PM | 1.771 | 0.59 | 175.66 | 5,270 |
| 9/15/2021 | 9:00:12 PM | 1.699 | 0.57 | 157.50 | 4,725 |
| 9/15/2021 | 9:30:12 PM | 1.785 | 0.60 | 179.34 | 5,380 |
| 9/15/2021 | 10:00:12 PM | 1.684 | 0.56 | 153.87 | 4,616 |
| 9/15/2021 | 10:30:12 PM | 1.682 | 0.56 | 153.39 | 4,602 |
| 9/15/2021 | 11:00:12 PM | 1.678 | 0.56 | 152.43 | 4,573 |
| 9/15/2021 | 11:30:12 PM | 1.685 | 0.56 | 154.11 | 4,623 |
| **Total** | | | | | **466,955** |

Acronyms:
ft - feet
gal - gallons
gpm - gallons per minute
kPa - kilopascals
* - Flow volumes are calculated as the total volume of flow passing through the flume for the duration of the interval where the interval duration is calculated as the time between the present recording and the previous recording.

**TABLE B5**
**HISTORICAL SEEP A FLUME DATA - Q3 2020 WET WEATHER EVENTS**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate (gpm) | Flow Rate ($ft^3/s$) | Gage Height (ft) |
|---|---|---|---|
| 7/7/2020 14:00 | 116 | 0.26 | 2.1 |
| 7/7/2020 14:30 | 132 | 0.29 | 2.1 |
| 7/7/2020 15:00 | 112 | 0.25 | 2.1 |
| 7/7/2020 15:30 | 135 | 0.30 | 2.1 |
| 7/7/2020 17:00 | 124 | 0.28 | 2.1 |
| 7/7/2020 17:30 | 141 | 0.32 | 2.1 |
| 7/7/2020 18:00 | 133 | 0.30 | 2.1 |
| 7/7/2020 18:30 | 142 | 0.32 | 2.1 |
| 7/7/2020 19:00 | 139 | 0.31 | 2.1 |
| 7/7/2020 19:30 | 135 | 0.30 | 2.1 |
| 7/7/2020 20:00 | 133 | 0.30 | 2.2 |
| 7/7/2020 20:30 | 137 | 0.31 | 2.2 |
| 7/7/2020 21:00 | 141 | 0.31 | 2.2 |
| 7/7/2020 21:30 | 144 | 0.32 | 2.2 |
| 7/7/2020 22:00 | 151 | 0.34 | 2.2 |
| 7/7/2020 22:30 | 135 | 0.30 | 2.2 |
| 7/7/2020 23:00 | 136 | 0.30 | 2.2 |
| 7/7/2020 23:30 | 134 | 0.30 | 2.2 |
| 7/8/2020 0:00 | 125 | 0.28 | 2.2 |
| 7/8/2020 0:30 | 129 | 0.29 | 2.2 |
| 7/8/2020 1:00 | 123 | 0.27 | 2.3 |
| 7/8/2020 1:30 | 124 | 0.28 | 2.3 |
| 7/8/2020 2:00 | 103 | 0.23 | 2.3 |
| 7/8/2020 2:30 | 124 | 0.28 | 2.3 |
| 7/8/2020 3:00 | 121 | 0.27 | 2.3 |
| 7/8/2020 3:30 | 133 | 0.30 | 2.3 |
| 7/8/2020 4:00 | 128 | 0.29 | 2.3 |
| 7/8/2020 4:30 | 134 | 0.30 | 2.3 |
| 7/8/2020 5:00 | 129 | 0.29 | 2.3 |
| 7/8/2020 5:30 | 138 | 0.31 | 2.3 |
| 7/8/2020 6:00 | 146 | 0.33 | 2.3 |
| 7/8/2020 6:30 | 135 | 0.30 | 2.3 |
| 7/8/2020 7:00 | 141 | 0.31 | 2.3 |
| 7/8/2020 7:30 | 130 | 0.29 | 2.3 |
| 7/8/2020 8:00 | 126 | 0.28 | 2.3 |
| 7/8/2020 8:30 | 135 | 0.30 | 2.3 |
| 7/8/2020 9:00 | 142 | 0.32 | 2.3 |
| 7/8/2020 9:30 | 134 | 0.30 | 2.3 |
| 7/8/2020 10:00 | 136 | 0.30 | 2.3 |
| 7/8/2020 10:30 | 133 | 0.30 | 2.3 |
| 7/8/2020 11:00 | 127 | 0.28 | 2.3 |
| 7/8/2020 11:30 | 134 | 0.30 | 2.3 |
| 7/8/2020 12:00 | 124 | 0.28 | 2.3 |
| 7/8/2020 12:30 | 126 | 0.28 | 2.3 |
| 7/8/2020 13:00 | 115 | 0.26 | 2.3 |
| 7/8/2020 13:30 | 134 | 0.30 | 2.3 |
| 7/8/2020 14:00 | 124 | 0.28 | 2.3 |
| 7/8/2020 14:30 | 130 | 0.29 | 2.3 |
| 7/8/2020 15:00 | 111 | 0.25 | 2.3 |
| 7/8/2020 15:30 | 135 | 0.30 | 2.3 |

**TABLE B5**
**HISTORICAL SEEP A FLUME DATA - Q3 2020 WET WEATHER EVENTS**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate (gpm) | Flow Rate ($ft^3/s$) | Gage Height (ft) |
|---|---|---|---|
| 7/8/2020 17:00 | 98 | 0.22 | -- |
| 7/8/2020 17:30 | 136 | 0.30 | -- |
| 7/8/2020 18:00 | 140 | 0.31 | -- |
| 7/8/2020 18:30 | 126 | 0.28 | -- |
| 7/8/2020 19:00 | 133 | 0.30 | -- |
| 7/8/2020 19:30 | 131 | 0.29 | -- |
| 7/8/2020 20:00 | 155 | 0.35 | -- |
| 7/8/2020 20:30 | 130 | 0.29 | -- |
| 7/8/2020 21:00 | 136 | 0.30 | -- |
| 7/8/2020 21:30 | 128 | 0.29 | -- |
| 7/8/2020 22:00 | 138 | 0.31 | -- |
| 7/8/2020 22:30 | 123 | 0.27 | -- |
| 7/8/2020 23:00 | 125 | 0.28 | -- |
| 7/8/2020 23:30 | 123 | 0.27 | -- |
| 7/9/2020 0:00 | 115 | 0.26 | -- |
| 7/9/2020 0:30 | 123 | 0.27 | -- |
| 7/9/2020 1:00 | 124 | 0.28 | -- |
| 7/9/2020 1:30 | 119 | 0.26 | -- |
| 7/9/2020 2:00 | 101 | 0.23 | -- |
| 7/9/2020 2:30 | 118 | 0.26 | -- |
| 7/9/2020 18:00 | 129 | 0.29 | 2.5 |
| 7/9/2020 18:30 | 125 | 0.28 | 2.4 |
| 7/9/2020 19:00 | 125 | 0.28 | 2.4 |
| 7/9/2020 19:30 | 126 | 0.28 | 2.4 |
| 7/9/2020 20:00 | 136 | 0.30 | 2.5 |
| 7/9/2020 20:30 | 128 | 0.28 | 2.4 |
| 7/9/2020 21:00 | 132 | 0.29 | 2.4 |
| 7/9/2020 21:30 | 126 | 0.28 | 2.4 |
| 7/9/2020 22:00 | 141 | 0.31 | 2.4 |
| 7/9/2020 22:30 | 122 | 0.27 | 2.4 |
| 7/9/2020 23:00 | 126 | 0.28 | 2.4 |
| 7/9/2020 23:30 | 126 | 0.28 | 2.4 |
| 7/10/2020 0:00 | 125 | 0.28 | 2.4 |
| 7/10/2020 0:30 | 117 | 0.26 | 2.4 |
| 7/10/2020 1:00 | 108 | 0.24 | 2.4 |
| 7/10/2020 1:30 | 125 | 0.28 | 2.4 |
| 7/10/2020 2:00 | 130 | 0.29 | 2.4 |
| 7/10/2020 2:30 | 126 | 0.28 | 2.4 |
| 7/10/2020 3:00 | 132 | 0.29 | 2.4 |
| 7/10/2020 3:30 | 125 | 0.28 | 2.4 |
| 7/10/2020 4:00 | 122 | 0.27 | 2.4 |
| 7/10/2020 4:30 | 120 | 0.27 | 2.4 |
| 7/10/2020 5:00 | 116 | 0.26 | 2.4 |
| 7/10/2020 5:30 | 128 | 0.28 | 2.4 |
| 7/10/2020 6:00 | 133 | 0.30 | 2.4 |
| 7/10/2020 6:30 | 131 | 0.29 | 2.4 |
| 7/10/2020 7:00 | 139 | 0.31 | 2.4 |
| 7/10/2020 7:30 | 131 | 0.29 | 2.4 |
| 7/10/2020 8:00 | 143 | 0.32 | 2.4 |
| 7/10/2020 8:30 | 129 | 0.29 | 2.4 |

**TABLE B5**
**HISTORICAL SEEP A FLUME DATA - Q3 2020 WET WEATHER EVENTS**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate (gpm) | Flow Rate ($ft^3/s$) | Gage Height (ft) |
|---|---|---|---|
| 7/10/2020 9:00 | 128 | 0.28 | 2.3 |
| 7/10/2020 9:30 | 129 | 0.29 | 2.3 |
| 7/10/2020 10:00 | 126 | 0.28 | 2.3 |
| 7/10/2020 10:30 | 125 | 0.28 | 2.3 |
| 7/10/2020 11:00 | 119 | 0.26 | 2.3 |
| 7/10/2020 11:30 | 126 | 0.28 | 2.3 |
| 7/10/2020 12:00 | 124 | 0.28 | 2.3 |
| 7/10/2020 12:30 | 135 | 0.30 | 2.3 |
| 7/10/2020 13:00 | 126 | 0.28 | 2.3 |
| 7/10/2020 13:30 | 132 | 0.29 | 2.3 |
| 7/10/2020 14:00 | 115 | 0.26 | 2.3 |
| 7/10/2020 14:30 | 127 | 0.28 | 2.3 |
| 7/10/2020 15:00 | 113 | 0.25 | 2.3 |
| 7/10/2020 15:30 | 129 | 0.29 | 2.3 |
| 7/10/2020 17:00 | 116 | 0.26 | 2.3 |
| 7/10/2020 17:30 | 128 | 0.29 | 2.3 |
| 7/11/2020 0:30 | 625 | 1.39 | 2.3 |
| 7/11/2020 1:00 | 619 | 1.38 | 2.3 |
| 7/11/2020 1:30 | 807 | 1.80 | 2.3 |
| 7/11/2020 2:00 | 714 | 1.59 | 2.3 |
| 7/11/2020 2:30 | 632 | 1.41 | 2.3 |
| 7/11/2020 3:00 | 537 | 1.20 | 2.3 |
| 7/11/2020 3:30 | 467 | 1.04 | 2.3 |
| 7/11/2020 4:00 | 393 | 0.88 | 2.3 |
| 7/11/2020 4:30 | 332 | 0.74 | 2.4 |
| 7/11/2020 5:00 | 268 | 0.60 | 2.4 |
| 7/11/2020 5:30 | 266 | 0.59 | 2.4 |
| 7/11/2020 6:00 | 236 | 0.52 | 2.4 |
| 7/11/2020 6:30 | 237 | 0.53 | 2.4 |
| 7/11/2020 7:00 | 249 | 0.55 | 2.4 |
| 7/11/2020 7:30 | 209 | 0.47 | 2.4 |
| 7/11/2020 8:00 | 216 | 0.48 | 2.4 |
| 7/11/2020 8:30 | 191 | 0.43 | 2.4 |
| 7/11/2020 9:00 | 193 | 0.43 | 2.4 |
| 7/11/2020 9:30 | 196 | 0.44 | 2.4 |
| 7/11/2020 10:00 | 183 | 0.41 | 2.4 |
| 7/11/2020 10:30 | 188 | 0.42 | 2.4 |
| 7/11/2020 11:00 | 190 | 0.42 | 2.4 |
| 7/11/2020 11:30 | 177 | 0.39 | 2.4 |
| 7/11/2020 12:00 | 168 | 0.38 | 2.4 |
| 7/11/2020 12:30 | 174 | 0.39 | 2.4 |
| 7/11/2020 13:00 | 148 | 0.33 | 2.4 |
| 7/11/2020 13:30 | 157 | 0.35 | 2.4 |
| 7/11/2020 14:00 | 140 | 0.31 | 2.4 |
| 7/11/2020 14:30 | 157 | 0.35 | 2.4 |
| 7/11/2020 15:00 | 148 | 0.33 | 2.4 |
| 7/11/2020 15:30 | 152 | 0.34 | 2.4 |
| 7/11/2020 17:00 | 141 | 0.31 | 2.4 |
| 7/11/2020 17:30 | 144 | 0.32 | 2.4 |
| 7/11/2020 18:00 | 143 | 0.32 | 2.4 |

**TABLE B5**
**HISTORICAL SEEP A FLUME DATA - Q3 2020 WET WEATHER EVENTS**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate (gpm) | Flow Rate ($ft^3/s$) | Gage Height (ft) |
|---|---|---|---|
| 7/11/2020 18:30 | 151 | 0.34 | 2.4 |
| 7/11/2020 19:00 | 148 | 0.33 | 2.4 |
| 7/11/2020 19:30 | 147 | 0.33 | 2.4 |
| 7/11/2020 20:00 | 158 | 0.35 | 2.4 |
| 7/11/2020 20:30 | 141 | 0.32 | 2.4 |
| 7/11/2020 21:00 | 150 | 0.33 | 2.4 |
| 7/11/2020 21:30 | 137 | 0.31 | 2.4 |
| 7/11/2020 22:00 | 159 | 0.35 | 2.3 |
| 7/11/2020 22:30 | 132 | 0.29 | 2.3 |
| 7/11/2020 23:00 | 139 | 0.31 | 2.3 |
| 7/11/2020 23:30 | 133 | 0.30 | 2.3 |
| 7/12/2020 0:00 | 131 | 0.29 | 2.3 |
| 7/12/2020 0:30 | 129 | 0.29 | 2.3 |
| 7/12/2020 1:00 | 120 | 0.27 | 2.3 |
| 7/13/2020 6:00 | 179 | 0.40 | 2.3 |
| 7/13/2020 6:30 | 159 | 0.35 | 2.3 |
| 7/13/2020 7:00 | 153 | 0.34 | 2.3 |
| 7/13/2020 7:30 | 145 | 0.32 | 2.3 |
| 7/13/2020 8:00 | 146 | 0.33 | 2.4 |
| 7/13/2020 8:30 | 144 | 0.32 | 2.4 |
| 7/13/2020 9:00 | 142 | 0.32 | 2.4 |
| 7/13/2020 9:30 | 148 | 0.33 | 2.4 |
| 7/13/2020 10:00 | 154 | 0.34 | 2.4 |
| 7/13/2020 10:30 | 153 | 0.34 | 2.4 |
| 7/13/2020 11:00 | 155 | 0.34 | 2.4 |
| 7/13/2020 11:30 | 156 | 0.35 | 2.4 |
| 7/13/2020 12:00 | 155 | 0.34 | 2.4 |
| 7/13/2020 12:30 | 157 | 0.35 | 2.4 |
| 7/13/2020 13:00 | 143 | 0.32 | 2.4 |
| 7/13/2020 13:30 | 146 | 0.32 | 2.4 |
| 7/13/2020 14:00 | 121 | 0.27 | 2.4 |
| 7/13/2020 14:30 | 146 | 0.33 | 2.5 |
| 7/13/2020 15:00 | 145 | 0.32 | 2.5 |
| 7/13/2020 15:30 | 153 | 0.34 | 2.5 |
| 7/13/2020 17:00 | 231 | 0.51 | 2.5 |
| 7/13/2020 17:30 | 461 | 1.03 | 2.5 |
| 7/13/2020 18:00 | 314 | 0.70 | 2.5 |
| 7/13/2020 18:30 | 266 | 0.59 | 2.5 |
| 7/13/2020 19:00 | 237 | 0.53 | 2.5 |
| 7/13/2020 19:30 | 248 | 0.55 | 2.5 |
| 7/13/2020 20:00 | 250 | 0.56 | 2.5 |
| 7/13/2020 20:30 | 207 | 0.46 | -- |
| 7/13/2020 21:00 | 204 | 0.45 | 2.5 |
| 7/13/2020 21:30 | 202 | 0.45 | 2.5 |
| 7/13/2020 22:00 | 246 | 0.55 | 2.5 |
| 7/13/2020 22:30 | 194 | 0.43 | 2.5 |
| 7/13/2020 23:00 | 197 | 0.44 | 2.5 |
| 7/13/2020 23:30 | 179 | 0.40 | 2.5 |
| 7/14/2020 0:00 | 167 | 0.37 | 2.5 |
| 7/14/2020 0:30 | 176 | 0.39 | 2.5 |

**TABLE B5**
**HISTORICAL SEEP A FLUME DATA - Q3 2020 WET WEATHER EVENTS**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate (gpm) | Flow Rate ($ft^3/s$) | Gage Height (ft) |
|---|---|---|---|
| 7/14/2020 1:00 | 167 | 0.37 | 2.5 |
| 7/14/2020 1:30 | 172 | 0.38 | 2.5 |
| 7/14/2020 2:00 | 170 | 0.38 | 2.5 |
| 7/14/2020 2:30 | 164 | 0.37 | 2.5 |
| 7/14/2020 3:00 | 158 | 0.35 | 2.5 |
| 7/14/2020 3:30 | 168 | 0.37 | 2.5 |
| 7/14/2020 4:00 | 178 | 0.40 | 2.5 |
| 7/14/2020 4:30 | 165 | 0.37 | 2.5 |
| 7/14/2020 5:00 | 169 | 0.38 | 2.5 |
| 7/14/2020 5:30 | 163 | 0.36 | 2.5 |
| 7/14/2020 6:00 | 181 | 0.40 | 2.5 |
| 7/14/2020 6:30 | 160 | 0.36 | 2.5 |
| 7/14/2020 7:00 | 166 | 0.37 | 2.5 |
| 7/14/2020 7:30 | 158 | 0.35 | 2.5 |
| 7/14/2020 8:00 | 164 | 0.36 | 2.5 |
| 7/14/2020 8:30 | 156 | 0.35 | 2.4 |
| 7/14/2020 9:00 | 175 | 0.39 | 2.4 |
| 7/14/2020 9:30 | 164 | 0.37 | 2.4 |
| 7/14/2020 10:00 | 88 | 0.20 | 2.4 |
| 7/14/2020 10:15 | 2 | 0.00 | 2.4 |
| 7/14/2020 10:45 | 167 | 0.37 | 2.4 |
| 7/14/2020 11:15 | 164 | 0.37 | 2.4 |
| 7/14/2020 11:45 | 169 | 0.38 | 2.4 |
| 7/14/2020 12:15 | 165 | 0.37 | 2.4 |
| 7/14/2020 12:45 | 156 | 0.35 | 2.4 |
| 7/14/2020 13:15 | 153 | 0.34 | 2.4 |
| 7/14/2020 13:45 | 148 | 0.33 | 2.4 |
| 7/14/2020 14:15 | 144 | 0.32 | 2.4 |
| 7/14/2020 14:45 | 152 | 0.34 | 2.4 |
| 7/14/2020 15:15 | 143 | 0.32 | 2.4 |
| 7/14/2020 15:45 | 153 | 0.34 | 2.4 |
| 7/14/2020 16:15 | 141 | 0.31 | -- |
| 7/20/2020 22:15 | 651 | 1.45 | 2.1 |
| 7/20/2020 22:45 | 603 | 1.34 | 2.1 |
| 7/20/2020 23:15 | 543 | 1.21 | 2.1 |
| 7/20/2020 23:45 | 392 | 0.87 | 2.1 |
| 7/21/2020 0:15 | 310 | 0.69 | 2.1 |
| 7/21/2020 0:45 | 323 | 0.72 | 2.1 |
| 7/21/2020 1:15 | 292 | 0.65 | 2.1 |
| 7/21/2020 1:45 | 254 | 0.57 | 2.1 |
| 7/21/2020 2:15 | 236 | 0.53 | 2.1 |
| 7/21/2020 2:45 | 216 | 0.48 | 2.2 |
| 7/21/2020 3:15 | 204 | 0.45 | 2.2 |
| 7/21/2020 3:45 | 212 | 0.47 | 2.2 |
| 7/21/2020 4:15 | 199 | 0.44 | 2.2 |
| 7/21/2020 4:45 | 207 | 0.46 | 2.2 |
| 7/21/2020 5:15 | 211 | 0.47 | 2.2 |
| 7/21/2020 5:45 | 196 | 0.44 | 2.2 |
| 7/21/2020 6:15 | 200 | 0.45 | 2.2 |
| 7/21/2020 6:45 | 197 | 0.44 | 2.2 |

**TABLE B5**
**HISTORICAL SEEP A FLUME DATA - Q3 2020 WET WEATHER EVENTS**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate (gpm) | Flow Rate ($ft^3/s$) | Gage Height (ft) |
|---|---|---|---|
| 7/21/2020 7:15 | 213 | 0.47 | 2.2 |
| 7/21/2020 7:45 | 191 | 0.43 | 2.2 |
| 7/21/2020 8:15 | 208 | 0.46 | 2.2 |
| 7/21/2020 8:45 | 193 | 0.43 | 2.2 |
| 7/21/2020 9:15 | 198 | 0.44 | 2.2 |
| 7/21/2020 9:45 | 187 | 0.42 | 2.2 |
| 7/21/2020 10:15 | 191 | 0.43 | 2.2 |
| 7/21/2020 10:45 | 182 | 0.41 | 2.2 |
| 7/21/2020 11:15 | 183 | 0.41 | 2.2 |
| 7/21/2020 11:45 | 175 | 0.39 | 2.2 |
| 7/21/2020 12:15 | 171 | 0.38 | 2.2 |
| 7/21/2020 12:45 | 173 | 0.39 | 2.2 |
| 7/21/2020 13:15 | 160 | 0.36 | 2.2 |
| 7/21/2020 13:45 | 171 | 0.38 | 2.2 |
| 7/21/2020 14:15 | 149 | 0.33 | 2.2 |
| 7/21/2020 14:45 | 163 | 0.36 | 2.2 |
| 7/21/2020 15:15 | 139 | 0.31 | 2.2 |
| 7/21/2020 15:45 | 148 | 0.33 | 2.2 |
| 7/21/2020 16:15 | 133 | 0.30 | -- |
| 7/21/2020 16:45 | 144 | 0.32 | 2.2 |
| 7/21/2020 17:15 | 128 | 0.29 | 2.2 |
| 7/21/2020 17:45 | 145 | 0.32 | 2.2 |
| 7/21/2020 18:15 | 134 | 0.30 | 2.2 |
| 7/21/2020 18:45 | 163 | 0.36 | 2.2 |
| 7/21/2020 19:15 | 160 | 0.36 | 2.2 |
| 7/21/2020 19:45 | 183 | 0.41 | 2.2 |
| 7/21/2020 20:15 | 196 | 0.44 | 2.2 |
| 7/21/2020 20:45 | 145 | 0.32 | 2.2 |
| 7/21/2020 21:15 | 158 | 0.35 | 2.2 |
| 7/21/2020 21:45 | 146 | 0.33 | 2.2 |
| 7/21/2020 22:15 | 151 | 0.34 | 2.2 |
| 7/21/2020 22:45 | 148 | 0.33 | 2.2 |
| 7/21/2020 23:15 | 156 | 0.35 | 2.2 |
| 7/21/2020 23:45 | 140 | 0.31 | 2.2 |
| 7/23/2020 20:45 | 221 | 0.49 | 1.8 |
| 7/23/2020 21:15 | 468 | 1.04 | 1.8 |
| 7/23/2020 21:45 | 523 | 1.16 | 1.9 |
| 7/23/2020 23:15 | 681 | 1.52 | 1.8 |
| 7/23/2020 23:45 | 626 | 1.39 | 1.8 |
| 7/24/2020 0:15 | 605 | 1.35 | 1.9 |
| 7/24/2020 0:45 | 620 | 1.38 | 2.0 |
| 7/24/2020 1:15 | 592 | 1.32 | 1.9 |
| 7/24/2020 1:45 | 443 | 0.99 | 1.9 |
| 7/24/2020 2:15 | 357 | 0.80 | 1.9 |
| 7/24/2020 2:45 | 358 | 0.80 | 1.9 |
| 7/24/2020 3:15 | 298 | 0.66 | 1.9 |
| 7/24/2020 3:45 | 290 | 0.65 | 1.9 |
| 7/24/2020 4:15 | 246 | 0.55 | 1.9 |
| 7/24/2020 4:45 | 235 | 0.52 | 1.9 |
| 7/24/2020 5:15 | 211 | 0.47 | 2.0 |

**TABLE B5**
**HISTORICAL SEEP A FLUME DATA - Q3 2020 WET WEATHER EVENTS**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate (gpm) | Flow Rate ($ft^3/s$) | Gage Height (ft) |
|---|---|---|---|
| 7/24/2020 5:45 | 247 | 0.55 | 2.0 |
| 7/24/2020 6:15 | 250 | 0.56 | 2.0 |
| 7/24/2020 6:45 | 239 | 0.53 | 2.0 |
| 7/24/2020 7:15 | 267 | 0.60 | 2.0 |
| 7/24/2020 7:45 | 207 | 0.46 | 2.0 |
| 7/24/2020 8:15 | 214 | 0.48 | 2.0 |
| 7/24/2020 8:45 | 198 | 0.44 | 2.0 |
| 7/24/2020 9:15 | 210 | 0.47 | 2.0 |
| 7/24/2020 9:45 | 187 | 0.42 | 2.0 |
| 7/24/2020 10:15 | 184 | 0.41 | 2.0 |
| 7/24/2020 10:45 | 183 | 0.41 | 2.0 |
| 7/24/2020 11:15 | 180 | 0.40 | 2.0 |
| 7/24/2020 11:45 | 172 | 0.38 | 2.0 |
| 7/24/2020 12:15 | 171 | 0.38 | 2.1 |
| 7/24/2020 12:45 | 166 | 0.37 | 2.1 |
| 7/24/2020 13:15 | 169 | 0.38 | 2.1 |
| 7/24/2020 13:45 | 157 | 0.35 | 2.1 |
| 7/24/2020 14:15 | 117 | 0.26 | 2.1 |
| 7/24/2020 14:45 | 166 | 0.37 | 2.2 |
| 7/24/2020 15:15 | 141 | 0.31 | 2.2 |
| 7/24/2020 15:45 | 165 | 0.37 | 2.2 |
| 7/24/2020 16:15 | 157 | 0.35 | -- |
| 7/24/2020 16:45 | 188 | 0.42 | 2.2 |
| 7/24/2020 17:15 | 198 | 0.44 | 2.3 |
| 7/24/2020 17:45 | 177 | 0.39 | 2.3 |
| 7/24/2020 18:15 | 184 | 0.41 | 2.3 |
| 7/24/2020 18:45 | 178 | 0.40 | 2.3 |
| 7/24/2020 19:15 | 189 | 0.42 | 2.3 |
| 7/24/2020 19:45 | 182 | 0.40 | 2.3 |
| 7/24/2020 20:15 | 185 | 0.41 | 2.3 |
| 7/24/2020 20:45 | 194 | 0.43 | 2.3 |
| 7/24/2020 21:15 | 198 | 0.44 | 2.4 |
| 7/24/2020 21:45 | 195 | 0.43 | 2.4 |
| 7/24/2020 22:15 | 197 | 0.44 | 2.4 |
| 7/24/2020 22:45 | 206 | 0.46 | 2.4 |
| 7/24/2020 23:15 | 217 | 0.48 | 2.5 |
| 7/24/2020 23:45 | 169 | 0.38 | 2.5 |
| 7/25/2020 0:15 | 162 | 0.36 | 2.6 |
| 7/25/2020 0:45 | 162 | 0.36 | 2.6 |
| 7/25/2020 1:15 | 156 | 0.35 | 2.6 |
| 7/25/2020 1:45 | 169 | 0.38 | 2.6 |
| 7/25/2020 2:15 | 163 | 0.36 | 2.6 |
| 7/25/2020 2:45 | 163 | 0.36 | 2.7 |
| 7/25/2020 3:15 | 158 | 0.35 | 2.7 |
| 7/25/2020 3:45 | 160 | 0.36 | 2.7 |
| 7/25/2020 4:15 | 163 | 0.36 | 2.7 |
| 7/25/2020 4:45 | 163 | 0.36 | 2.7 |
| 7/25/2020 5:15 | 164 | 0.37 | 2.7 |
| 7/25/2020 5:45 | 155 | 0.34 | 2.7 |
| 7/25/2020 6:15 | 154 | 0.34 | 2.8 |

**TABLE B5**
**HISTORICAL SEEP A FLUME DATA - Q3 2020 WET WEATHER EVENTS**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate (gpm) | Flow Rate ($ft^3/s$) | Gage Height (ft) |
|---|---|---|---|
| 7/25/2020 6:45 | 165 | 0.37 | 2.8 |
| 7/25/2020 7:15 | 180 | 0.40 | 2.8 |
| 7/25/2020 7:45 | 162 | 0.36 | 2.8 |
| 7/25/2020 8:15 | 166 | 0.37 | 2.8 |
| 7/25/2020 8:45 | 160 | 0.36 | 2.8 |
| 7/25/2020 9:15 | 163 | 0.36 | 2.8 |
| 7/25/2020 9:45 | 164 | 0.37 | 2.8 |
| 7/25/2020 10:15 | 166 | 0.37 | 2.8 |
| 7/25/2020 10:45 | 164 | 0.37 | 2.8 |
| 7/25/2020 11:15 | 164 | 0.37 | 2.8 |
| 7/25/2020 11:45 | 158 | 0.35 | 2.8 |
| 7/25/2020 12:15 | 154 | 0.34 | 2.8 |
| 7/25/2020 12:45 | 156 | 0.35 | 2.8 |
| 7/25/2020 13:15 | 147 | 0.33 | 2.8 |
| 7/25/2020 13:45 | 158 | 0.35 | 2.8 |
| 7/25/2020 14:15 | 132 | 0.29 | 2.8 |
| 7/25/2020 14:45 | 145 | 0.32 | 2.8 |
| 7/25/2020 15:15 | 122 | 0.27 | 2.8 |
| 7/25/2020 15:45 | 157 | 0.35 | 2.8 |
| 7/25/2020 16:15 | 129 | 0.29 | -- |
| 7/25/2020 16:45 | 159 | 0.36 | 2.8 |
| 7/25/2020 17:15 | 154 | 0.34 | 2.8 |
| 7/25/2020 17:45 | 154 | 0.34 | 2.8 |
| 7/25/2020 18:15 | 153 | 0.34 | 2.8 |
| 7/25/2020 18:45 | 155 | 0.35 | 2.8 |
| 7/25/2020 19:15 | 163 | 0.36 | 2.8 |
| 7/25/2020 19:45 | 171 | 0.38 | 2.8 |
| 7/25/2020 20:15 | 204 | 0.45 | 2.8 |
| 7/25/2020 20:45 | 151 | 0.34 | 2.8 |
| 7/25/2020 21:15 | 168 | 0.37 | 2.8 |
| 7/25/2020 21:45 | 140 | 0.31 | 2.8 |
| 7/25/2020 22:15 | 153 | 0.34 | 2.8 |
| 7/25/2020 22:45 | 150 | 0.33 | 2.8 |
| 7/25/2020 23:15 | 159 | 0.36 | 2.8 |
| 7/25/2020 23:45 | 148 | 0.33 | 2.7 |
| 7/29/2020 18:00 | 157 | 0.35 | 2.7 |
| 7/29/2020 18:30 | 109 | 0.24 | 2.7 |
| 7/29/2020 19:00 | 102 | 0.23 | 2.7 |
| 7/29/2020 19:30 | 108 | 0.24 | 2.8 |
| 7/29/2020 20:00 | 91 | 0.20 | 2.8 |
| 7/29/2020 20:30 | 112 | 0.25 | 2.8 |
| 7/29/2020 21:00 | 115 | 0.26 | 2.8 |
| 7/29/2020 21:30 | 110 | 0.24 | 2.8 |
| 7/29/2020 22:00 | 120 | 0.27 | 2.8 |
| 7/29/2020 22:30 | 110 | 0.24 | 2.8 |
| 7/29/2020 23:00 | 121 | 0.27 | 2.8 |
| 7/29/2020 23:30 | 110 | 0.24 | 2.8 |
| 7/30/2020 0:00 | 108 | 0.24 | 2.9 |
| 7/30/2020 0:30 | 109 | 0.24 | 2.9 |
| 7/30/2020 1:00 | 99 | 0.22 | 2.9 |

**TABLE B5**
**HISTORICAL SEEP A FLUME DATA - Q3 2020 WET WEATHER EVENTS**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate (gpm) | Flow Rate ($ft^3/s$) | Gage Height (ft) |
|---|---|---|---|
| 7/30/2020 1:30 | 109 | 0.24 | 3.0 |
| 7/30/2020 2:00 | 89 | 0.20 | 3.0 |
| 7/30/2020 2:30 | 114 | 0.25 | 3.0 |
| 7/30/2020 3:00 | 114 | 0.25 | 3.0 |
| 7/30/2020 3:30 | 113 | 0.25 | 3.0 |
| 7/30/2020 4:00 | 113 | 0.25 | 3.1 |
| 7/30/2020 4:30 | 113 | 0.25 | 3.1 |
| 7/30/2020 5:00 | 117 | 0.26 | 3.1 |
| 7/30/2020 5:30 | 113 | 0.25 | 3.1 |
| 7/30/2020 6:00 | 110 | 0.24 | 3.1 |
| 7/30/2020 6:30 | 117 | 0.26 | 3.1 |
| 7/30/2020 7:00 | 127 | 0.28 | 3.1 |
| 7/30/2020 7:30 | 118 | 0.26 | 3.1 |
| 7/30/2020 8:00 | 128 | 0.29 | 3.1 |
| 7/30/2020 8:30 | 118 | 0.26 | 3.1 |
| 7/30/2020 9:00 | 124 | 0.28 | 3.1 |
| 7/30/2020 9:30 | 121 | 0.27 | 3.1 |
| 7/30/2020 10:00 | 120 | 0.27 | 3.1 |
| 7/30/2020 10:30 | 122 | 0.27 | 3.1 |
| 7/30/2020 11:00 | 124 | 0.28 | 3.1 |
| 7/30/2020 11:30 | 122 | 0.27 | 3.1 |
| 7/30/2020 12:00 | 111 | 0.25 | 3.1 |
| 7/30/2020 12:30 | 125 | 0.28 | 3.1 |
| 7/30/2020 13:00 | 109 | 0.24 | 3.1 |
| 7/30/2020 13:30 | 128 | 0.29 | 3.1 |
| 7/30/2020 14:00 | 109 | 0.24 | 3.1 |
| 7/30/2020 14:30 | 131 | 0.29 | 3.1 |
| 7/30/2020 15:00 | 112 | 0.25 | 3.1 |
| 7/30/2020 15:30 | 134 | 0.30 | 3.1 |
| 7/30/2020 16:00 | 118 | 0.26 | -- |
| 7/30/2020 16:30 | 128 | 0.29 | -- |
| 7/30/2020 17:00 | 123 | 0.27 | 3.2 |
| 7/30/2020 17:30 | 122 | 0.27 | 3.2 |
| 8/4/2020 3:00 | 1 | 0.00 | 2.3 |
| 9/11/2020 14:45 | 181 | 0.40 | 1.9 |
| 9/11/2020 15:15 | 113 | 0.25 | 1.9 |
| 9/11/2020 15:45 | 136 | 0.30 | 1.9 |
| 9/11/2020 16:15 | 146 | 0.33 | -- |
| 9/11/2020 16:45 | 111 | 0.25 | -- |
| 9/11/2020 17:15 | 106 | 0.24 | -- |
| 9/11/2020 17:45 | 118 | 0.26 | -- |
| 9/11/2020 18:15 | 136 | 0.30 | -- |
| 9/11/2020 18:45 | 128 | 0.29 | -- |
| 9/11/2020 19:15 | 129 | 0.29 | -- |
| 9/11/2020 19:45 | 138 | 0.31 | -- |
| 9/11/2020 20:15 | 149 | 0.33 | -- |
| 9/11/2020 20:45 | 129 | 0.29 | -- |
| 9/11/2020 21:15 | 126 | 0.28 | -- |
| 9/11/2020 21:45 | 127 | 0.28 | -- |
| 9/11/2020 22:15 | 133 | 0.30 | -- |

**TABLE B5**
**HISTORICAL SEEP A FLUME DATA - Q3 2020 WET WEATHER EVENTS**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate (gpm) | Flow Rate ($ft^3/s$) | Gage Height (ft) |
|---|---|---|---|
| 9/11/2020 22:45 | 111 | 0.25 | -- |
| 9/11/2020 23:15 | 103 | 0.23 | -- |
| 9/11/2020 23:45 | 117 | 0.26 | -- |
| 9/12/2020 0:15 | 118 | 0.26 | -- |
| 9/12/2020 0:45 | 103 | 0.23 | -- |
| 9/12/2020 1:15 | 94 | 0.21 | -- |
| 9/12/2020 1:45 | 107 | 0.24 | -- |
| 9/12/2020 2:15 | 108 | 0.24 | -- |
| 9/12/2020 2:45 | 106 | 0.24 | -- |
| 9/12/2020 3:15 | 101 | 0.22 | -- |
| 9/12/2020 3:45 | 103 | 0.23 | -- |
| 9/12/2020 4:15 | 102 | 0.23 | -- |
| 9/12/2020 4:45 | 101 | 0.22 | -- |
| 9/12/2020 5:15 | 99 | 0.22 | -- |
| 9/12/2020 5:45 | 102 | 0.23 | -- |
| 9/12/2020 6:15 | 103 | 0.23 | -- |
| 9/12/2020 6:45 | 110 | 0.25 | -- |
| 9/12/2020 7:15 | 118 | 0.26 | -- |
| 9/12/2020 7:45 | 105 | 0.23 | -- |
| 9/12/2020 8:15 | 120 | 0.27 | -- |
| 9/12/2020 8:45 | 102 | 0.23 | -- |
| 9/12/2020 9:15 | 105 | 0.23 | -- |
| 9/12/2020 9:45 | 102 | 0.23 | -- |
| 9/12/2020 10:15 | 111 | 0.25 | -- |
| 9/12/2020 10:45 | 101 | 0.22 | -- |
| 9/12/2020 11:15 | 96 | 0.21 | -- |
| 9/12/2020 11:45 | 103 | 0.23 | -- |
| 9/12/2020 12:15 | 100 | 0.22 | -- |
| 9/12/2020 12:45 | 94 | 0.21 | -- |
| 9/12/2020 13:15 | 88 | 0.20 | -- |
| 9/12/2020 13:45 | 93 | 0.21 | -- |
| 9/12/2020 14:15 | 85 | 0.19 | -- |
| 9/12/2020 14:45 | 89 | 0.20 | -- |
| 9/12/2020 15:15 | 78 | 0.17 | -- |
| 9/12/2020 15:45 | 84 | 0.19 | -- |
| 9/12/2020 16:15 | 78 | 0.17 | -- |
| 9/12/2020 16:45 | 90 | 0.20 | 2.4 |
| 9/12/2020 17:15 | 91 | 0.20 | 2.4 |
| 9/12/2020 17:45 | 100 | 0.22 | 2.4 |
| 9/12/2020 18:15 | 110 | 0.25 | 2.4 |
| 9/12/2020 18:45 | 93 | 0.21 | 2.4 |
| 9/16/2020 20:45 | 98 | 0.22 | 1.8 |
| 9/16/2020 21:15 | 96 | 0.21 | 1.8 |
| 9/16/2020 21:45 | 96 | 0.21 | 1.8 |
| 9/16/2020 22:15 | 98 | 0.22 | 1.8 |
| 9/16/2020 22:45 | 98 | 0.22 | 1.8 |
| 9/16/2020 23:15 | 94 | 0.21 | 1.8 |
| 9/16/2020 23:45 | 92 | 0.21 | 1.8 |
| 9/17/2020 0:15 | 79 | 0.18 | 1.8 |
| 9/17/2020 0:45 | 92 | 0.21 | 1.8 |

**TABLE B5**
**HISTORICAL SEEP A FLUME DATA - Q3 2020 WET WEATHER EVENTS**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate (gpm) | Flow Rate ($ft^3/s$) | Gage Height (ft) |
|---|---|---|---|
| 9/17/2020 1:15 | 86 | 0.19 | 1.8 |
| 9/17/2020 1:45 | 90 | 0.20 | 1.8 |
| 9/17/2020 2:15 | 78 | 0.17 | 1.8 |
| 9/17/2020 2:45 | 94 | 0.21 | 1.8 |
| 9/17/2020 3:15 | 80 | 0.18 | 1.8 |
| 9/17/2020 3:45 | 99 | 0.22 | 1.8 |
| 9/17/2020 4:15 | 90 | 0.20 | 1.8 |
| 9/17/2020 4:45 | 103 | 0.23 | 1.8 |
| 9/17/2020 5:15 | 109 | 0.24 | 1.8 |
| 9/17/2020 5:45 | 112 | 0.25 | 1.8 |
| 9/17/2020 6:15 | 112 | 0.25 | 1.8 |
| 9/17/2020 6:45 | 111 | 0.25 | 1.8 |
| 9/17/2020 7:15 | 105 | 0.23 | 1.8 |
| 9/17/2020 7:45 | 108 | 0.24 | 1.8 |
| 9/17/2020 8:15 | 104 | 0.23 | 1.8 |
| 9/17/2020 8:45 | 108 | 0.24 | 1.8 |
| 9/17/2020 9:15 | 107 | 0.24 | 1.8 |
| 9/17/2020 9:45 | 114 | 0.25 | 1.8 |
| 9/17/2020 10:15 | 125 | 0.28 | 1.8 |
| 9/17/2020 10:45 | 129 | 0.29 | 1.8 |
| 9/17/2020 11:15 | 117 | 0.26 | 1.8 |
| 9/17/2020 11:45 | 124 | 0.28 | 1.8 |
| 9/17/2020 12:15 | 115 | 0.26 | 1.8 |
| 9/17/2020 12:45 | 154 | 0.34 | 1.8 |
| 9/17/2020 13:15 | 150 | 0.33 | 1.8 |
| 9/17/2020 13:45 | 190 | 0.42 | 1.8 |
| 9/17/2020 14:15 | 199 | 0.44 | 1.8 |
| 9/17/2020 14:45 | 253 | 0.56 | 1.8 |
| 9/17/2020 15:15 | 338 | 0.75 | 1.8 |
| 9/17/2020 15:45 | 562 | 1.25 | 1.8 |
| 9/17/2020 16:15 | 515 | 1.15 | -- |
| 9/17/2020 16:45 | 577 | 1.29 | 1.8 |
| 9/17/2020 17:15 | 533 | 1.19 | 1.8 |
| 9/17/2020 18:15 | 645 | 1.44 | 1.8 |
| 9/17/2020 18:45 | 566 | 1.26 | 1.9 |
| 9/17/2020 19:15 | 523 | 1.16 | 1.9 |
| 9/17/2020 19:45 | 466 | 1.04 | 1.9 |
| 9/17/2020 20:15 | 426 | 0.95 | 1.9 |
| 9/17/2020 20:45 | 386 | 0.86 | 1.9 |
| 9/17/2020 21:15 | 349 | 0.78 | 2.0 |
| 9/17/2020 21:45 | 302 | 0.67 | 2.0 |
| 9/17/2020 22:15 | 274 | 0.61 | 2.1 |
| 9/17/2020 22:45 | 267 | 0.60 | 2.1 |
| 9/17/2020 23:15 | 262 | 0.58 | 2.1 |
| 9/17/2020 23:45 | 236 | 0.53 | 2.2 |
| 9/18/2020 0:15 | 224 | 0.50 | 2.2 |
| 9/18/2020 0:45 | 207 | 0.46 | 2.3 |
| 9/18/2020 1:15 | 193 | 0.43 | 2.3 |
| 9/18/2020 1:45 | 219 | 0.49 | 2.3 |
| 9/18/2020 2:15 | 218 | 0.49 | 2.3 |

**TABLE B5**
**HISTORICAL SEEP A FLUME DATA - Q3 2020 WET WEATHER EVENTS**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate (gpm) | Flow Rate ($ft^3/s$) | Gage Height (ft) |
|---|---|---|---|
| 9/18/2020 2:45 | 189 | 0.42 | 2.4 |
| 9/18/2020 3:15 | 188 | 0.42 | 2.4 |
| 9/18/2020 3:45 | 182 | 0.40 | 2.4 |
| 9/18/2020 4:15 | 183 | 0.41 | 2.4 |
| 9/18/2020 4:45 | 180 | 0.40 | 2.5 |
| 9/18/2020 5:15 | 197 | 0.44 | 2.5 |
| 9/18/2020 5:45 | 182 | 0.41 | 2.5 |
| 9/18/2020 6:15 | 198 | 0.44 | 2.5 |
| 9/18/2020 6:45 | 179 | 0.40 | 2.6 |
| 9/18/2020 7:15 | 191 | 0.43 | 2.6 |
| 9/18/2020 7:45 | 177 | 0.40 | 2.6 |
| 9/18/2020 8:15 | 191 | 0.43 | 2.6 |
| 9/18/2020 8:45 | 168 | 0.37 | 2.6 |
| 9/18/2020 9:15 | 184 | 0.41 | 2.6 |
| 9/18/2020 9:45 | 174 | 0.39 | 2.6 |
| 9/18/2020 10:15 | 211 | 0.47 | 2.7 |
| 9/18/2020 10:45 | 162 | 0.36 | 2.7 |
| 9/18/2020 11:15 | 188 | 0.42 | 2.7 |
| 9/18/2020 11:45 | 156 | 0.35 | 2.7 |
| 9/18/2020 12:15 | 155 | 0.35 | 2.7 |
| 9/18/2020 12:45 | 151 | 0.34 | 2.7 |
| 9/18/2020 13:15 | 149 | 0.33 | 2.7 |
| 9/18/2020 13:45 | 148 | 0.33 | 2.8 |
| 9/18/2020 14:15 | 140 | 0.31 | 2.8 |
| 9/18/2020 14:45 | 147 | 0.33 | 2.8 |
| 9/18/2020 15:15 | 152 | 0.34 | 2.8 |
| 9/18/2020 15:45 | 143 | 0.32 | 2.8 |
| 9/18/2020 16:15 | 143 | 0.32 | -- |
| 9/18/2020 16:45 | 144 | 0.32 | 2.9 |
| 9/18/2020 17:15 | 155 | 0.34 | 2.9 |
| 9/18/2020 17:45 | 139 | 0.31 | 2.9 |
| 9/18/2020 18:15 | 157 | 0.35 | 2.9 |
| 9/18/2020 18:45 | 142 | 0.32 | 2.9 |
| 9/18/2020 19:15 | 161 | 0.36 | 3.0 |
| 9/18/2020 19:45 | 141 | 0.31 | 3.0 |
| 9/18/2020 20:15 | 159 | 0.35 | 3.0 |
| 9/18/2020 20:45 | 134 | 0.30 | 3.0 |
| 9/18/2020 21:15 | 149 | 0.33 | 3.0 |
| 9/18/2020 21:45 | 133 | 0.30 | 3.0 |
| 9/18/2020 22:15 | 154 | 0.34 | 3.0 |
| 9/18/2020 22:45 | 123 | 0.27 | 3.0 |
| 9/18/2020 23:15 | 134 | 0.30 | 3.1 |
| 9/18/2020 23:45 | 125 | 0.28 | 3.1 |
| 9/19/2020 0:15 | 134 | 0.30 | 3.1 |
| 9/19/2020 0:45 | 123 | 0.27 | 3.1 |
| 9/19/2020 1:15 | 126 | 0.28 | 3.1 |
| 9/19/2020 1:45 | 121 | 0.27 | 3.1 |
| 9/19/2020 2:15 | 125 | 0.28 | 3.1 |
| 9/19/2020 2:45 | 110 | 0.24 | 3.2 |
| 9/19/2020 3:15 | 108 | 0.24 | 3.2 |

**TABLE B5**
**HISTORICAL SEEP A FLUME DATA - Q3 2020 WET WEATHER EVENTS**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate (gpm) | Flow Rate ($ft^3/s$) | Gage Height (ft) |
|---|---|---|---|
| 9/19/2020 3:45 | 115 | 0.26 | 3.2 |
| 9/19/2020 4:15 | 131 | 0.29 | 3.2 |
| 9/19/2020 4:45 | 127 | 0.28 | 3.2 |
| 9/19/2020 5:15 | 143 | 0.32 | 3.2 |
| 9/19/2020 5:45 | 124 | 0.28 | 3.2 |
| 9/19/2020 6:15 | 139 | 0.31 | 3.2 |
| 9/19/2020 6:45 | 132 | 0.29 | 3.2 |
| 9/19/2020 7:15 | 154 | 0.34 | 3.2 |
| 9/19/2020 7:45 | 127 | 0.28 | 3.3 |
| 9/19/2020 8:15 | 151 | 0.34 | 3.3 |
| 9/19/2020 8:45 | 122 | 0.27 | 3.3 |
| 9/19/2020 9:15 | 145 | 0.32 | 3.3 |
| 9/19/2020 9:45 | 122 | 0.27 | 3.3 |
| 9/19/2020 10:15 | 133 | 0.30 | 3.3 |
| 9/19/2020 10:45 | 130 | 0.29 | 3.3 |
| 9/19/2020 11:15 | 139 | 0.31 | 3.3 |
| 9/25/2020 6:15 | 52 | 0.12 | 3.3 |
| 9/25/2020 6:45 | 48 | 0.11 | 3.3 |
| 9/25/2020 7:15 | 51 | 0.11 | 3.3 |
| 9/25/2020 7:45 | 54 | 0.12 | 3.3 |
| 9/25/2020 8:15 | 61 | 0.14 | 3.3 |
| 9/25/2020 8:45 | 51 | 0.11 | 3.3 |
| 9/25/2020 9:15 | 67 | 0.15 | 3.3 |
| 9/25/2020 9:45 | 75 | 0.17 | 3.3 |
| 9/25/2020 10:15 | 71 | 0.16 | 3.3 |
| 9/25/2020 10:45 | 67 | 0.15 | 3.3 |
| 9/25/2020 11:15 | 62 | 0.14 | 3.3 |
| 9/25/2020 11:45 | 63 | 0.14 | 3.3 |
| 9/25/2020 12:15 | 52 | 0.12 | 3.3 |
| 9/25/2020 12:45 | 70 | 0.16 | 3.3 |
| 9/25/2020 13:15 | 67 | 0.15 | 3.3 |
| 9/25/2020 13:45 | 63 | 0.14 | 3.3 |
| 9/25/2020 14:15 | 56 | 0.12 | 3.3 |
| 9/25/2020 14:45 | 68 | 0.15 | 3.3 |
| 9/25/2020 15:15 | 71 | 0.16 | 3.3 |
| 9/25/2020 15:45 | 91 | 0.20 | 3.3 |
| 9/25/2020 16:15 | 83 | 0.19 | -- |
| 9/25/2020 16:45 | 314 | 0.70 | 3.3 |
| 9/25/2020 17:15 | 652 | 1.45 | 3.3 |
| 9/25/2020 17:45 | 473 | 1.05 | 3.3 |
| 9/25/2020 18:15 | 449 | 1.00 | 3.3 |
| 9/25/2020 18:45 | 386 | 0.86 | 3.3 |
| 9/25/2020 19:15 | 339 | 0.76 | 3.4 |
| 9/25/2020 19:45 | 324 | 0.72 | 3.4 |
| 9/25/2020 20:15 | 309 | 0.69 | 3.4 |
| 9/25/2020 20:45 | 257 | 0.57 | 3.4 |
| 9/25/2020 21:15 | 242 | 0.54 | 3.5 |
| 9/25/2020 21:45 | 198 | 0.44 | 3.6 |
| 9/25/2020 22:15 | 185 | 0.41 | 3.6 |
| 9/25/2020 22:45 | 168 | 0.37 | 3.6 |

**TABLE B5**
**HISTORICAL SEEP A FLUME DATA - Q3 2020 WET WEATHER EVENTS**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate (gpm) | Flow Rate ($ft^3/s$) | Gage Height (ft) |
|---|---|---|---|
| 9/25/2020 23:15 | 169 | 0.38 | 3.7 |
| 9/25/2020 23:45 | 142 | 0.32 | 3.7 |
| 9/26/2020 0:15 | 131 | 0.29 | 3.8 |
| 9/26/2020 0:45 | 120 | 0.27 | 3.8 |
| 9/26/2020 1:15 | 98 | 0.22 | 3.9 |
| 9/26/2020 1:45 | 112 | 0.25 | 3.9 |
| 9/26/2020 2:15 | 95 | 0.21 | 4.0 |
| 9/26/2020 2:45 | 100 | 0.22 | 4.0 |
| 9/26/2020 3:15 | 87 | 0.19 | 4.1 |
| 9/26/2020 3:45 | 95 | 0.21 | 4.1 |
| 9/26/2020 4:15 | 91 | 0.20 | 4.2 |
| 9/26/2020 4:45 | 92 | 0.21 | 4.2 |
| 9/26/2020 5:15 | 96 | 0.21 | 4.2 |
| 9/26/2020 5:45 | 89 | 0.20 | 4.3 |
| 9/26/2020 6:15 | 105 | 0.23 | 4.3 |
| 9/26/2020 6:45 | 83 | 0.19 | 4.4 |
| 9/26/2020 7:15 | 94 | 0.21 | 4.4 |
| 9/26/2020 7:45 | 84 | 0.19 | 4.4 |
| 9/26/2020 8:15 | 93 | 0.21 | 4.5 |
| 9/26/2020 8:45 | 79 | 0.18 | 4.5 |
| 9/26/2020 9:15 | 81 | 0.18 | 4.5 |
| 9/26/2020 9:45 | 74 | 0.16 | 4.6 |
| 9/26/2020 10:15 | 76 | 0.17 | 4.6 |
| 9/26/2020 10:45 | 72 | 0.16 | 4.6 |
| 9/26/2020 11:15 | 72 | 0.16 | 4.7 |
| 9/26/2020 11:45 | 68 | 0.15 | 4.7 |
| 9/26/2020 12:15 | 62 | 0.14 | 4.7 |
| 9/26/2020 12:45 | 64 | 0.14 | 4.7 |
| 9/26/2020 13:15 | 51 | 0.11 | 4.7 |
| 9/26/2020 13:45 | 62 | 0.14 | 4.8 |
| 9/26/2020 14:15 | 51 | 0.11 | 4.8 |
| 9/26/2020 14:45 | 64 | 0.14 | 4.8 |
| 9/26/2020 15:15 | 57 | 0.13 | 4.8 |
| 9/26/2020 15:45 | 63 | 0.14 | 4.9 |
| 9/26/2020 16:15 | 62 | 0.14 | -- |
| 9/26/2020 16:45 | 68 | 0.15 | 4.9 |
| 9/26/2020 17:15 | 72 | 0.16 | 5.0 |
| 9/26/2020 17:45 | 67 | 0.15 | 5.0 |
| 9/26/2020 18:15 | 75 | 0.17 | 5.0 |
| 9/26/2020 18:45 | 63 | 0.14 | 5.1 |
| 9/26/2020 19:15 | 71 | 0.16 | 5.1 |
| 9/26/2020 19:45 | 71 | 0.16 | 5.1 |
| 9/26/2020 20:15 | 89 | 0.20 | 5.2 |
| 9/26/2020 20:45 | 88 | 0.20 | 5.2 |
| 9/26/2020 21:15 | 106 | 0.24 | 5.2 |
| 9/26/2020 21:45 | 105 | 0.23 | 5.2 |
| 9/26/2020 22:15 | 114 | 0.25 | 5.3 |
| 9/26/2020 22:45 | 128 | 0.29 | 5.3 |
| 9/28/2020 8:45 | 60 | 0.13 | 5.3 |
| 9/28/2020 9:15 | 64 | 0.14 | 5.3 |

**TABLE B5**
**HISTORICAL SEEP A FLUME DATA - Q3 2020 WET WEATHER EVENTS**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate (gpm) | Flow Rate ($ft^3/s$) | Gage Height (ft) |
|---|---|---|---|
| 9/28/2020 9:45 | 58 | 0.13 | 5.3 |
| 9/28/2020 10:15 | 57 | 0.13 | 5.3 |
| 9/28/2020 10:45 | 59 | 0.13 | 5.2 |
| 9/28/2020 11:15 | 56 | 0.12 | 5.2 |
| 9/28/2020 11:45 | 59 | 0.13 | 5.2 |
| 9/28/2020 12:15 | 57 | 0.13 | 5.2 |
| 9/28/2020 12:45 | 53 | 0.12 | 5.2 |
| 9/28/2020 13:15 | 48 | 0.11 | 5.2 |
| 9/28/2020 13:45 | 52 | 0.11 | 5.2 |
| 9/28/2020 14:15 | 47 | 0.10 | 5.2 |
| 9/28/2020 14:45 | 54 | 0.12 | 5.1 |
| 9/28/2020 15:15 | 49 | 0.11 | 5.1 |
| 9/28/2020 15:45 | 53 | 0.12 | 5.1 |
| 9/28/2020 16:15 | 53 | 0.12 | -- |
| 9/28/2020 16:45 | 53 | 0.12 | 5.1 |
| 9/28/2020 17:15 | 53 | 0.12 | 5.1 |
| 9/28/2020 17:45 | 50 | 0.11 | 5.1 |
| 9/28/2020 18:15 | 49 | 0.11 | 5.1 |
| 9/28/2020 18:45 | 57 | 0.13 | 5.1 |
| 9/28/2020 19:15 | 53 | 0.12 | 5.1 |
| 9/28/2020 19:45 | 55 | 0.12 | 5.1 |
| 9/28/2020 20:15 | 53 | 0.12 | 5.1 |
| 9/28/2020 20:45 | 57 | 0.13 | 5.1 |
| 9/28/2020 21:15 | 57 | 0.13 | 5.1 |
| 9/28/2020 21:45 | 65 | 0.14 | 5.1 |
| 9/28/2020 22:15 | 66 | 0.15 | 5.2 |
| 9/28/2020 22:45 | 62 | 0.14 | 5.2 |
| 9/28/2020 23:15 | 64 | 0.14 | 5.2 |
| 9/28/2020 23:45 | 60 | 0.13 | 5.2 |
| 9/29/2020 0:15 | 54 | 0.12 | 5.2 |
| 9/29/2020 0:45 | 58 | 0.13 | 5.2 |
| 9/29/2020 1:15 | 52 | 0.12 | 5.2 |
| 9/29/2020 1:45 | 57 | 0.13 | 5.2 |
| 9/29/2020 2:15 | 49 | 0.11 | 5.2 |
| 9/29/2020 2:45 | 55 | 0.12 | 5.2 |
| 9/29/2020 3:15 | 44 | 0.10 | 5.2 |
| 9/29/2020 3:45 | 61 | 0.14 | 5.2 |
| 9/29/2020 4:15 | 55 | 0.12 | 5.2 |
| 9/29/2020 4:45 | 58 | 0.13 | 5.2 |
| 9/29/2020 5:15 | 54 | 0.12 | 5.2 |
| 9/29/2020 5:45 | 59 | 0.13 | 5.2 |
| 9/29/2020 6:15 | 58 | 0.13 | 5.2 |
| 9/29/2020 6:45 | 58 | 0.13 | 5.2 |
| 9/29/2020 7:15 | 63 | 0.14 | 5.2 |
| 9/29/2020 7:45 | 56 | 0.13 | 5.2 |
| 9/29/2020 8:15 | 60 | 0.13 | 5.2 |
| 9/29/2020 8:45 | 54 | 0.12 | 5.1 |
| 9/29/2020 9:15 | 47 | 0.10 | 5.1 |
| 9/29/2020 9:45 | 57 | 0.13 | 5.1 |
| 9/29/2020 10:15 | 52 | 0.12 | 5.1 |

**TABLE B5**
**HISTORICAL SEEP A FLUME DATA - Q3 2020 WET WEATHER EVENTS**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate (gpm) | Flow Rate ($ft^3/s$) | Gage Height (ft) |
|---|---|---|---|
| 9/29/2020 10:45 | 55 | 0.12 | 5.1 |
| 9/29/2020 11:15 | 51 | 0.11 | 5.1 |
| 9/29/2020 11:45 | 52 | 0.12 | 5.1 |
| 9/29/2020 12:15 | 42 | 0.09 | 5.1 |
| 9/29/2020 12:45 | 49 | 0.11 | 5.1 |
| 9/29/2020 13:15 | 36 | 0.08 | 5.1 |
| 9/29/2020 13:45 | 48 | 0.11 | 5.1 |
| 9/29/2020 14:15 | 34 | 0.08 | 5.1 |
| 9/29/2020 14:45 | 48 | 0.11 | 5.1 |
| 9/29/2020 15:15 | 41 | 0.09 | 5.1 |
| 9/29/2020 15:45 | 52 | 0.12 | 5.1 |
| 9/29/2020 16:15 | 51 | 0.11 | -- |
| 9/29/2020 16:45 | 58 | 0.13 | 5.0 |
| 9/29/2020 17:15 | 55 | 0.12 | 5.0 |
| 9/29/2020 17:45 | 65 | 0.14 | 5.0 |
| 9/29/2020 18:15 | 57 | 0.13 | 5.0 |
| 9/29/2020 18:45 | 83 | 0.18 | 5.0 |
| 9/29/2020 19:15 | 102 | 0.23 | 5.0 |
| 9/29/2020 19:45 | 303 | 0.68 | 5.0 |
| 9/29/2020 20:15 | 662 | 1.48 | 5.0 |
| 9/29/2020 20:45 | 512 | 1.14 | 5.0 |
| 9/29/2020 21:15 | 638 | 1.42 | 5.0 |
| 9/29/2020 21:45 | 535 | 1.19 | 5.0 |
| 9/29/2020 22:15 | 494 | 1.10 | 4.9 |
| 9/29/2020 22:45 | 446 | 0.99 | 4.9 |
| 9/29/2020 23:15 | 378 | 0.84 | 4.9 |
| 9/29/2020 23:45 | 390 | 0.87 | 4.9 |
| 9/30/2020 0:15 | 441 | 0.98 | 5.2 |
| 9/30/2020 0:45 | 303 | 0.68 | 5.2 |
| 9/30/2020 1:15 | 293 | 0.65 | 5.2 |
| 9/30/2020 1:45 | 254 | 0.57 | 5.2 |
| 9/30/2020 2:15 | 244 | 0.54 | 5.3 |
| 9/30/2020 2:45 | 202 | 0.45 | 5.3 |
| **Median Flow Rate** | 134.49 | 0.30 | |

***Notes***

Measurements are recorded from the flume at Seep A.

$ft^3$/sec - cubic feet per second

ft - feet

gpm - gallons per minute

**TABLE B6-1**
**OLD OUTFALL 002 VOLUMETRIC DISCHARGE CALCULATIONS - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Measurement Point | Distance Along Measured Cross Section | Measured Water Column Depth | Calculated Creek Cell Area[2] | Measured Creek Velocity | Cell Velocity | Calculated Discharge Through Creek Cell Area[1] |
|---|---|---|---|---|---|---|
| | (ft) | (ft) | ($ft^2$) | (ft/s) | (ft/s) | ($ft^3/s$) |
| Stream Bank-North | 0 | NM | NA | NA | NA | NA |
| Top | 1 | 0.00 | 0.38 | 0.03 | 0.84 | 0.31 |
| Middle | 1 | 0.13 | | 0.33 | | |
| Bottom | 1 | 0.25 | | 0.24 | | |
| Top | 2 | 0.00 | 0.55 | 1.33 | 1.56 | 0.86 |
| Middle | 2 | 0.25 | | 1.34 | | |
| Bottom | 2 | 0.50 | | 0.74 | | |
| Top | 3 | 0.00 | | 1.65 | | |
| Middle | 3 | 0.30 | | 1.77 | | |
| Bottom | 3 | 0.60 | | 1.64 | | |
| Stream Bank-South | 4 | NM | | NA | | |
| | | | **Total Volumetric Discharge** | | | |
| | | | **($ft^3/s$)** | | | 1.2 |
| | | | **(gpm)** | | | 524 |
| | | | **(L/s)** | | | 33 |

***Associated Measurement Notes***
Location: Chemours Fayetteville
Station: OLDOF-1
Date: July 27, 2021

***Acronyms***
- - data not measured or calculated
ft - feet
$ft^2$ - square feet
$ft^3/s$ - cubic feet per second
gpm - gallons per minute
L/s - liters per second
NM - Not Measured
NA - Not Applicable

***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 B6-2**
**OLD OUTFALL 002 VOLUMETRIC DISCHARGE CALCULATIONS - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Measurement Point | Distance Along Measured Cross Section | Measured Water Column Depth | Calculated Creek Cell Area[2] | Measured Creek Velocity | Cell Velocity | Calculated Discharge Through Creek Cell Area[1] |
|---|---|---|---|---|---|---|
| | (ft) | (ft) | ($ft^2$) | (ft/s) | (ft/s) | ($ft^3/s$) |
| Top | 0.3 | 0.00 | | 1.29 | | |
| Middle | 0.3 | 0.35 | | 1.30 | | |
| Bottom | 0.3 | 0.70 | 0.21 | 0.46 | 1.27 | 0.27 |
| Top | 0.6 | 0.00 | | 1.21 | | |
| Middle | 0.6 | 0.35 | | 1.23 | | |
| Bottom | 0.6 | 0.70 | 0.20 | 0.84 | 1.26 | 0.25 |
| Top | 0.9 | 0.00 | | 1.15 | | |
| Middle | 0.9 | 0.33 | | 1.28 | | |
| Bottom | 0.9 | 0.65 | 0.20 | 0.89 | 1.20 | 0.23 |
| Top | 1.2 | 0.00 | | 1.13 | | |
| Middle | 1.2 | 0.33 | | 1.12 | | |
| Bottom | 1.2 | 0.65 | 0.20 | 0.52 | 1.09 | 0.22 |
| Top | 1.5 | 0.00 | | 1.15 | | |
| Middle | 1.5 | 0.35 | | 1.06 | | |
| Bottom | 1.5 | 0.70 | 0.20 | 0.56 | 1.03 | 0.20 |
| Top | 1.8 | 0.00 | | 0.96 | | |
| Middle | 1.8 | 0.32 | | 1.00 | | |
| Bottom | 1.8 | 0.63 | 0.18 | 0.54 | 0.90 | 0.16 |
| Top | 2.1 | 0.00 | | 1.02 | | |
| Middle | 2.1 | 0.28 | | 0.80 | | |
| Bottom | 2.1 | 0.55 | 0.17 | 0.82 | 0.73 | 0.12 |
| Top | 2.4 | 0.00 | | 0.70 | | |
| Middle | 2.4 | 0.28 | | 0.65 | | |
| Bottom | 2.4 | 0.55 | | 0.39 | | |
| | | | **Total Volumetric Discharge** | | | |
| | | | **($ft^3/s$)** | | | 1.5 |
| | | | **(gpm)** | | | 654 |
| | | | **(L/s)** | | | 41 |

***Associated Measurement Notes***
Location: Chemours Fayetteville
Station: OLDOF-1
Date: August 18, 2021

***Acronyms***
- - data not measured or calculated
ft - feet
$ft^2$ - square feet
$ft^3/s$ - 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 B6-3**

**OLD OUTFALL 002 VOLUMETRIC DISCHARGE CALCULATIONS - SEPTEMBER 2021**

**Chemours Fayetteville Works, North Carolina**

| Measurement Point | Distance Along Measured Cross Section | Measured Water Column Depth | Calculated Creek Cell Area[2] | Measured Creek Velocity | Cell Velocity | Calculated Discharge Through Creek Cell Area[1] |
|---|---|---|---|---|---|---|
| | (ft) | (ft) | ($ft^2$) | (ft/s) | (ft/s) | ($ft^3/s$) |
| South Bank | 0 | 0.00 | 0.13 | 0.00 | 0.70 | 0.09 |
| Top | 0.5 | 0.00 | | 1.50 | | |
| Middle | 0.5 | 0.25 | | 1.40 | | |
| Bottom | 0.5 | 0.50 | 0.26 | 0.80 | 1.50 | 0.39 |
| Top | 1 | 0.00 | | 1.68 | | |
| Middle | 1 | 0.28 | | 1.60 | | |
| Bottom | 1 | 0.55 | 0.34 | 1.00 | 1.36 | 0.46 |
| Top | 1.5 | 0.00 | | 1.40 | | |
| Middle | 1.5 | 0.40 | | 1.12 | | |
| Bottom | 1.5 | 0.80 | 0.38 | 0.41 | 1.06 | 0.40 |
| Top | 2 | 0.00 | | 1.23 | | |
| Middle | 2 | 0.35 | | 1.00 | | |
| Bottom | 2 | 0.70 | 0.31 | 0.35 | 0.85 | 0.27 |
| Top | 2.5 | 0.00 | | 0.92 | | |
| Middle | 2.5 | 0.28 | | 0.70 | | |
| Bottom | 2.5 | 0.55 | 0.24 | 0.33 | 0.59 | 0.14 |
| Top | 3 | 0.00 | | 0.46 | | |
| Middle | 3 | 0.20 | | 0.48 | | |
| Bottom | 3 | 0.40 | 0.08 | 0.42 | 0.24 | 0.02 |
| North Bank | 3.4 | 0.00 | | 0.00 | | |
| | | | **Total Volumetric Discharge** | | | |
| | | | **($ft^3/s$)** | | | 1.8 |
| | | | **(gpm)** | | | 791 |
| | | | **(L/s)** | | | 50 |

***Associated Measurement Notes***

Location: Chemours Fayetteville

Station: OLDOF-1

Date: September 15, 2021

***Acronyms***

- - data not measured or calculated

ft - feet

$ft^2$ - square feet

$ft^3/s$ - 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 B7-1**
**WILLIS CREEK VOLUMETRIC DISCHARGE CALCULATIONS - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Measurement Point | Distance Along Measured Cross Section | Measured Water Column Depth | Calculated Creek Cell Area[2] | Measured Creek Velocity | Cell Velocity | Calculated Discharge Through Creek Cell Area[1] |
|---|---|---|---|---|---|---|
| | (ft) | (ft) | ($ft^2$) | (ft/s) | (ft/s) | ($ft^3/s$) |
| Stream Bank-North | 0 | NM | NA | NA | NA | NA |
| Top | 1 | 0.00 | 0.63 | 0.12 | 0.04 | 0.03 |
| Bottom | 1 | 0.40 | | 0.01 | | |
| Top | 2 | 0.00 | 0.93 | 0.05 | 0.08 | 0.07 |
| Middle | 2 | 0.40 | | 0.02 | | |
| Bottom | 2 | 0.85 | | 0.04 | | |
| Top | 3 | 0.00 | 0.88 | 0.20 | 0.34 | 0.29 |
| Middle | 3 | 0.50 | | 0.14 | | |
| Bottom | 3 | 1.00 | | 0.14 | | |
| Top | 4 | 0.00 | 0.93 | 0.57 | 0.61 | 0.56 |
| Middle | 4 | 0.38 | | 0.53 | | |
| Bottom | 4 | 0.75 | | 0.43 | | |
| Top | 5 | 0.00 | 0.99 | 0.62 | 0.70 | 0.69 |
| Middle | 5 | 0.55 | | 0.68 | | |
| Bottom | 5 | 1.10 | | 0.50 | | |
| Top | 6 | 0.00 | 0.81 | 0.78 | 0.74 | 0.60 |
| Middle | 6 | 0.44 | | 0.72 | | |
| Bottom | 6 | 0.88 | | 0.42 | | |
| Top | 7 | 0.00 | 0.81 | 0.82 | 0.80 | 0.65 |
| Middle | 7 | 0.38 | | 0.75 | | |
| Bottom | 7 | 0.75 | | 0.68 | | |
| Top | 8 | 0.00 | 1.13 | 0.81 | 0.85 | 0.95 |
| Middle | 8 | 0.44 | | 0.85 | | |
| Bottom | 8 | 0.88 | | 0.71 | | |
| Top | 9 | 0.00 | 1.44 | 0.62 | 0.90 | 1.29 |
| Middle | 9 | 0.69 | | 0.84 | | |
| Bottom | 9 | 1.38 | | 0.65 | | |
| Top | 10 | 0.00 | 1.56 | 0.65 | 0.88 | 1.38 |
| Middle | 10 | 0.75 | | 0.95 | | |
| Bottom | 10 | 1.50 | | 0.70 | | |
| Top | 11 | 0.00 | 1.63 | 0.58 | 0.76 | 1.24 |
| Middle | 11 | 0.81 | | 0.81 | | |
| Bottom | 11 | 1.63 | | 0.60 | | |
| Top | 12 | 0.00 | 2.01 | 0.43 | 0.75 | 1.51 |
| Middle | 12 | 0.81 | | 0.71 | | |
| Bottom | 12 | 1.63 | | 0.43 | | |
| Top | 13 | 0.00 | 2.20 | 0.73 | 0.65 | 1.42 |
| Middle | 13 | 1.20 | | 0.79 | | |
| Bottom | 13 | 2.40 | | 0.43 | | |
| Top | 14 | 0.00 | 1.75 | 0.69 | 0.45 | 0.79 |
| Middle | 14 | 1.00 | | 0.50 | | |
| Bottom | 14 | 2.00 | | 0.34 | | |
| Top | 15 | 0.00 | 1.45 | 0.31 | 0.41 | 0.59 |
| Middle | 15 | 0.75 | | 0.40 | | |
| Bottom | 15 | 1.50 | | 0.18 | | |
| Top | 16 | 0.00 | 1.5 | 0.22 | 0.24 | 0.36 |
| Middle | 16 | 0.70 | | 0.42 | | |
| Bottom | 16 | 1.40 | | 0.26 | | |
| Top | 17 | 0.00 | 1.65 | 0.25 | 0.08 | 0.13 |
| Middle | 17 | 0.80 | | 0.06 | | |
| Bottom | 17 | 1.60 | | -0.21 | | |
| Top | 18 | 0.00 | 1.45 | -0.11 | 0.04 | 0.06 |
| Middle | 18 | 0.85 | | 0.10 | | |
| Bottom | 18 | 1.70 | | -0.18 | | |
| Top | 19 | 0.00 | 1.05 | -0.14 | -0.065 | -0.07 |
| Middle | 19 | 0.60 | | -0.02 | | |

**TABLE B7-1**
**WILLIS CREEK VOLUMETRIC DISCHARGE CALCULATIONS - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Measurement Point | Distance Along Measured Cross Section | Measured Water Column Depth | Calculated Creek Cell Area[2] | Measured Creek Velocity | Cell Velocity | Calculated Discharge Through Creek Cell Area[1] |
|---|---|---|---|---|---|---|
| | (ft) | (ft) | ($ft^2$) | (ft/s) | (ft/s) | ($ft^3/s$) |
| Bottom | 19 | 1.20 | | -0.13 | | |
| Top | 20 | 0.00 | 0.7 | -0.06 | -0.07 | -0.05 |
| Middle | 20 | 0.45 | | -0.11 | | |
| Bottom | 20 | 0.90 | | -0.12 | | |
| Top | 21 | 0.00 | | -0.05 | | |
| Middle | 21 | 0.25 | | -0.03 | | |
| Bottom | 21 | 0.50 | | -0.12 | | |
| Stream Bank-South | 22 | NM | | NA | | |
| | | | **Total Volumetric Discharge** | | | |
| | | | **($ft^3/s$)** | | | 12.6 |
| | | | **(gpm)** | | | 5655 |
| | | | **(L/s)** | | | 357 |

***Associated Measurement Notes***
Location: Chemours Fayetteville
Station: Willis Creek 01 (SW-WC-01)
Date: July 27, 2021

***Acronyms***
- - data not measured or calculated
ft - feet
$ft^2$ - square feet
$ft^3/s$ - cubic feet per second
gpm - gallons per minute
L/s - liters per second
NM - Not Measured
NA - Not Applicable

***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 B7-2**
**WILLIS CREEK VOLUMETRIC DISCHARGE CALCULATIONS - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Location | Distance Along Measured Cross Section | Measured Water Column Depth | Calculated Creek Cell Area[2] | Measured Creek Velocity | Cell Velocity | Calculated Discharge Through Creek Cell Area[1] |
|---|---|---|---|---|---|---|
| | (ft) | (ft) | ($ft^2$) | (ft/s) | (ft/s) | ($ft^3/s$) |
| South Bank | 0 | 0.00 | 1.20 | 0.00 | 0.53 | 0.63 |
| Top | 3 | 0.00 | | 1.17 | | |
| Middle | 3 | 0.40 | | 1.05 | | |
| Bottom | 3 | 0.80 | 2.03 | 0.47 | 1.29 | 2.60 |
| Top | 6 | 0.00 | | 1.57 | | |
| Middle | 6 | 0.28 | | 1.52 | | |
| Bottom | 6 | 0.55 | 1.58 | 0.78 | 1.58 | 2.49 |
| Top | 9 | 0.00 | | 1.67 | | |
| Middle | 9 | 0.25 | | 1.64 | | |
| Bottom | 9 | 0.50 | 1.80 | 1.09 | 1.49 | 2.67 |
| Top | 12 | 0.00 | | 1.47 | | |
| Middle | 12 | 0.35 | | 1.33 | | |
| Bottom | 12 | 0.70 | 1.95 | 0.85 | 1.53 | 2.97 |
| Top | 15 | 0.00 | | 1.82 | | |
| Middle | 15 | 0.30 | | 1.72 | | |
| Bottom | 15 | 0.60 | 1.50 | 1.08 | 1.38 | 2.07 |
| Top | 18 | 0.00 | | 1.10 | | |
| Middle | 18 | 0.20 | | 1.04 | | |
| Bottom | 18 | 0.40 | 0.40 | 0.42 | 0.52 | 0.21 |
| North Bank | 20 | 0.00 | | 0.00 | | |
| | | | **Total Volumetric Discharge** | | | |
| | | | **($ft^3/s$)** | | | 13.6 |
| | | | **(gpm)** | | | 6124 |
| | | | **(L/s)** | | | 386 |

***Associated Measurement Notes***
Location: Chemours Fayetteville
Station: Willis Creek 01 (SW-WC-01)
Date: August 18, 2021

***Acronyms***
- - data not measured or calculated
ft - feet
$ft^2$ - square feet
$ft^3/s$ - 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 B7-3**

**WILLIS CREEK VOLUMETRIC DISCHARGE CALCULATIONS - SEPTEMBER 2021**

**Chemours Fayetteville Works, North Carolina**

| Measurement Point | Distance Along Measured Cross Section | Measured Water Column Depth | Calculated Creek Cell Area[2] | Measured Creek Velocity | Cell Velocity | Calculated Discharge Through Creek Cell Area[1] |
|---|---|---|---|---|---|---|
| | (ft) | (ft) | ($ft^2$) | (ft/s) | (ft/s) | ($ft^3/s$) |
| South Bank | 0 | 0.00 | 0.74 | 0.00 | 0.44 | 0.33 |
| Top | 2.7 | 0.00 | | 0.99 | | |
| Middle | 2.7 | 0.28 | | 0.88 | | |
| Bottom | 2.7 | 0.55 | 1.42 | 0.48 | 0.89 | 1.26 |
| Top | 5.4 | 0.00 | | 1.10 | | |
| Middle | 5.4 | 0.25 | | 0.90 | | |
| Bottom | 5.4 | 0.50 | 1.28 | 0.70 | 0.99 | 1.26 |
| Top | 8.1 | 0.00 | | 1.15 | | |
| Middle | 8.1 | 0.23 | | 1.07 | | |
| Bottom | 8.1 | 0.45 | 1.22 | 0.84 | 1.09 | 1.32 |
| Top | 10.8 | 0.00 | | 1.26 | | |
| Middle | 10.8 | 0.23 | | 1.11 | | |
| Bottom | 10.8 | 0.45 | 1.15 | 1.08 | 1.11 | 1.27 |
| Top | 13.5 | 0.00 | | 1.11 | | |
| Middle | 13.5 | 0.20 | | 1.11 | | |
| Bottom | 13.5 | 0.40 | 1.15 | 0.92 | 0.75 | 0.85 |
| Top | 16.2 | 0.00 | | 0.60 | | |
| Middle | 16.2 | 0.23 | | 0.38 | | |
| Bottom | 16.2 | 0.45 | 0.59 | 0.20 | 0.19 | 0.11 |
| North Bank | 18.8 | 0.00 | | 0.00 | | |
| | | | **Total Volumetric Discharge** | | | |
| | | | **($ft^3/s$)** | | | 6 |
| | | | **(gpm)** | | | 2879 |
| | | | **(L/s)** | | | 182 |

***Associated Measurement Notes***

Location: Chemours Fayetteville

Station: Willis Creek 01 (SW-WC-01)

Date: September 14, 2021

***Acronyms***

- - data not measured or calculated

ft - feet

$ft^2$ - square feet

$ft^3/s$ - 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 B8-1**

**GEORGIA BRANCH CREEK VOLUMETRIC DISCHARGE CALCULATIONS - JULY 2021**

**Chemours Fayetteville Works, North Carolina**

| Location | Distance Along Measured Cross Section | Measured Water Column Depth | Calculated Creek Cell Area[2] | Measured Creek Velocity | Cell Velocity | Calculated Discharge Through Creek Cell Area[1] |
|---|---|---|---|---|---|---|
| | (ft) | (ft) | ($ft^2$) | (ft/s) | (ft/s) | ($ft^3/s$) |
| | | | | | | |
| Top | 2 | 0.00 | | 0.33 | | |
| Middle | 2 | 0.70 | | 0.21 | | |
| Bottom | 2 | 1.40 | 2.70 | 0.12 | 0.47 | 1.27 |
| Top | 4 | 0.00 | | 0.88 | | |
| Middle | 4 | 0.65 | | 0.73 | | |
| Bottom | 4 | 1.30 | 2.80 | 0.28 | 0.78 | 2.18 |
| Top | 6 | 0.00 | | 0.92 | | |
| Middle | 6 | 0.58 | | 0.83 | | |
| Bottom | 6 | 1.50 | 2.55 | 0.50 | 0.90 | 2.30 |
| Top | 8 | 0.00 | | 1.01 | | |
| Middle | 8 | 0.53 | | 0.97 | | |
| Bottom | 8 | 1.05 | 1.95 | 0.21 | 0.84 | 1.63 |
| Top | 10 | 0.00 | | 0.79 | | |
| Middle | 10 | 0.45 | | 0.70 | | |
| Bottom | 10 | 0.90 | 1.40 | 0.15 | 0.55 | 0.77 |
| Top | 12 | 0.00 | | 0.55 | | |
| Middle | 12 | 0.25 | | 0.40 | | |
| Bottom | 12 | 0.50 | | 0.16 | | |
| | | | **Total Volumetric Discharge ($ft^3/s$)** | | | 8.1 |
| | | | **(gpm)** | | | 3656 |
| | | | **(L/s)** | | | 231 |

***Associated Measurement Notes***

Location: Chemours Fayetteville

Station: Georgia Branch 01 (SW-GB-01)

Date: July 27, 2021

***Acronyms***

- - data not measured or calculated

ft - feet

$ft^2$ - square feet

$ft^3/s$ - 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 B8-2**

**GEORGIA BRANCH CREEK VOLUMETRIC DISCHARGE CALCULATIONS - AUGUST 2021**

**Chemours Fayetteville Works, North Carolina**

| Location | Distance Along Measured Cross Section | Measured Water Column Depth | Calculated Creek Cell Area[2] | Measured Creek Velocity | Cell Velocity | Calculated Discharge Through Creek Cell Area[1] |
|---|---|---|---|---|---|---|
| | (ft) | (ft) | ($ft^2$) | (ft/s) | (ft/s) | ($ft^3/s$) |
| Top | 2.5 | 0.00 | | 0.89 | | |
| Middle | 2.5 | 0.50 | | 0.95 | | |
| Bottom | 2.5 | 1.00 | 2.50 | 0.68 | 0.74 | 1.84 |
| Top | 5 | 0.00 | | 0.60 | | |
| Middle | 5 | 0.50 | | 0.52 | | |
| Bottom | 5 | 1.00 | 2.38 | 0.30 | 0.62 | 1.47 |
| Top | 7.5 | 0.00 | | 0.72 | | |
| Middle | 7.5 | 0.45 | | 0.72 | | |
| Bottom | 7.5 | 0.90 | 2.38 | 0.33 | 0.69 | 1.63 |
| Top | 10 | 0.00 | | 0.69 | | |
| Middle | 10 | 0.50 | | 0.65 | | |
| Bottom | 10 | 1.00 | 2.09 | 0.12 | 0.86 | 1.80 |
| Top | 12.5 | 0.00 | | 1.29 | | |
| Middle | 12.5 | 0.33 | | 1.07 | | |
| Bottom (Obstructed) | 12.5 | 0.68 | | 0.02 | | |

| Total Volumetric Discharge | |
|---|---|
| ($ft^3/s$) | 6.7 |
| (gpm) | 3024 |
| (L/s) | 191 |

***Associated Measurement Notes***

Location: Chemours Fayetteville

Station: Georgia Branch 01 (SW-GB-01)

Date: August 18, 2021

***Acronyms***

- - data not measured or calculated

ft - feet

$ft^2$ - square feet

$ft^3/s$ - 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 B8-3**

**GEORGIA BRANCH CREEK VOLUMETRIC DISCHARGE CALCULATIONS - SEPTEMBER 2021**

**Chemours Fayetteville Works, North Carolina**

| Location | Distance Along Measured Cross Section | Measured Water Column Depth | Calculated Creek Cell Area[2] | Measured Creek Velocity | Cell Velocity | Calculated Discharge Through Creek Cell Area[1] |
|---|---|---|---|---|---|---|
| | (ft) | (ft) | ($ft^2$) | (ft/s) | (ft/s) | ($ft^3/s$) |
| South Bank | 0 | 0.00 | 0.25 | 0.00 | 0.40 | 0.10 |
| Top | 1 | 0.00 | | 0.95 | | |
| Middle | 1 | 0.25 | | 0.80 | | |
| Bottom | 1 | 0.50 | 0.50 | 0.45 | 0.83 | 0.41 |
| Top | 2 | 0.00 | | 1.10 | | |
| Middle | 2 | 0.25 | | 0.85 | | |
| Bottom | 2 | 0.50 | 0.50 | 0.80 | 0.83 | 0.41 |
| Top | 3 | 0.00 | | 0.95 | | |
| Middle | 3 | 0.25 | | 0.80 | | |
| Bottom | 3 | 0.50 | 0.48 | 0.80 | 1.30 | 0.62 |
| Top | 4 | 0.00 | | 1.95 | | |
| Middle | 4 | 0.23 | | 1.80 | | |
| Bottom | 4 | 0.45 | 0.45 | 1.60 | 1.80 | 0.81 |
| Top | 5 | 0.00 | | 2.05 | | |
| Middle | 5 | 0.23 | | 1.80 | | |
| Bottom | 5 | 0.45 | 0.43 | 1.60 | 1.76 | 0.75 |
| Top | 6 | 0.00 | | 1.85 | | |
| Middle | 6 | 0.20 | | 1.71 | | |
| Bottom | 6 | 0.40 | 0.33 | 1.47 | 1.56 | 0.51 |
| Top | 7 | 0.00 | | 1.60 | | |
| Bottom | 7 | 0.25 | 0.23 | 1.20 | 1.08 | 0.24 |
| Bottom | 8 | 0.20 | 0.18 | 0.75 | 0.58 | 0.10 |
| Bottom | 9 | 0.15 | 0.15 | 0.40 | 0.68 | 0.10 |
| Bottom | 10 | 0.15 | 0.18 | 0.95 | 1.09 | 0.19 |
| Bottom | 11 | 0.20 | 0.20 | 1.23 | 0.88 | 0.18 |
| Bottom | 12 | 0.20 | 0.10 | 0.53 | 0.27 | 0.03 |
| North Bank | 13 | 0.00 | | 0.00 | | |

| Total Volumetric Discharge | |
|---|---|
| ($ft^3/s$) | 4.4 |
| (gpm) | 1993 |
| (L/s) | 126 |

***Associated Measurement Notes***

Location: Chemours Fayetteville

Station: Georgia Branch 01 (SW-GB-01)

Date: September 15, 2021

***Acronyms***

- - data not measured or calculated

ft - feet

$ft^2$ - square feet

$ft^3/s$ - 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 B9-1**
**LOCK AND DAM SEEP VOLUMETRIC DISCHARGE CALCULATIONS - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Location | Distance Along Measured Cross Section | Measured Water Column Depth | Calculated Creek Cell Area[2] | Measured Creek Velocity | Cell Velocity | Calculated Discharge Through Creek Cell Area[1] |
|---|---|---|---|---|---|---|
| | (ft) | (ft) | ($ft^2$) | (ft/s) | (ft/s) | ($ft^3/s$) |
| Stream Bank-North | 0 | NM | NA | NA | NA | NA |
| Bottom | 0.5 | 0.10 | 0.05 | 0.19 | 0.15 | 0.01 |
| Bottom | 1 | 0.10 | 0.02 | 0.10 | 0.10 | 0.00 |
| Bottom | 1.2 | 0.10 | 0.03 | 0.09 | 0.16 | 0.00 |
| Bottom | 1.6 | 0.05 | NA | 0.23 | NA | NA |
| Stream Bank-South | 1.8 | NM | | NA | | |
| | | | **Total Volumetric Discharge** | | | |
| | | | **($ft^3/s$)** | | | 0.01 |
| | | | **(gpm)** | | | 6 |
| | | | **(L/s)** | | | 0.4 |

***Associated Measurement Notes***
Location: Chemours Fayetteville
Station: Lock and Dam Seep
Date: July 27, 2021

***Acronyms***
- - data not measured or calculated
ft - feet
$ft^2$ - square feet
$ft^3/s$ - 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 B9-2**

**LOCK AND DAM SEEP VOLUMETRIC DISCHARGE CALCULATIONS - AUGUST 2021**

**Chemours Fayetteville Works, North Carolina**

| Location | Distance Along Measured Cross Section | Measured Water Column Depth | Calculated Creek Cell Area[2] | Measured Creek Velocity | Cell Velocity | Calculated Discharge Through Creek Cell Area[1] |
|---|---|---|---|---|---|---|
| | (ft) | (ft) | ($ft^2$) | (ft/s) | (ft/s) | ($ft^3/s$) |
| Top | 0.3 | 0.00 | | 0.20 | | |
| Bottom | 0.3 | 0.30 | 0.09 | 0.04 | 0.15 | 0.01 |
| Top | 0.5 | 0.00 | | 0.27 | | |
| Middle | 0.5 | 0.30 | | 0.18 | | |
| Bottom | 0.5 | 0.60 | 0.11 | 0.10 | 0.16 | 0.02 |
| Top | 0.7 | 0.00 | | 0.15 | | |
| Middle | 0.7 | 0.25 | | 0.13 | | |
| Bottom | 0.7 | 0.50 | | 0.02 | | |
| | | | **Total Volumetric Discharge** | | | |
| | | | **($ft^3/s$)** | | | 0.03 |
| | | | **(gpm)** | | | 14 |
| | | | **(L/s)** | | | 0.9 |

***Associated Measurement Notes***

Location: Chemours Fayetteville

Station: Lock and Dam Seep

Date: August 18, 2021

***Acronyms***

- - data not measured or calculated

ft - feet

$ft^2$ - square feet

$ft^3/s$ - 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 B9-3**
**OUTFALL 002 FLOW RATE - Q3 2021**
**Chemours Fayetteville Works, North Carolina**

| Q2 2021 Monthly Event | Date | Outfall 002 Flow (MGD) | Total Daily Volume (gal) | Hours of Sample Collection | Approximate Total Volume during 24 hour Sample Collection (gal) |
|---|---|---|---|---|---|
| July 2021[1] | 07/27/2021 | 16.457 | 16,457,000 | 17.7 | 12,137,038 |
| | 07/28/2021 | 16.446 | 16,446,000 | 5.3 | 3,631,825 |
| | 7/27/2021 6:18:00 AM to 7/28/2021 5:18:00 AM | | | 23 | 15,768,863 |
| August 2021[2] | 8/19/2021 | 12.961 | 12,961,000 | 9.4 | 5,094,393 |
| | 8/20/2021 | 12.994 | 12,994,000 | 13.6 | 7,345,219 |
| | 8/19/2021 2:34:00 PM to 8/20/2021 1:34:00 PM | | | 23 | 12,439,613 |
| September 2021[3] | 9/14/2021 | 14.826 | 14,826,000 | 16.4 | 10,131,100 |
| | 9/15/2021 | 16.040 | 16,040,000 | 6.6 | 4,411,000 |
| | 9/14/2021 7:36:00 AM to 9/15/2021 6:36:00 AM | | | 23 | 14,542,100 |

***Notes:***

Daily flow rates collected from facility Discharge Monitoring Reports.

1 - Total flow volume for 24-hour temporal composite sample collected at 5:18 am on 7/28/2021 approximated based on flow rates for 7/27/2021 and 7/28/2021

2 - Total flow volume for 24-hour temporal composite sample collected at 1:34 pm on 8/20/2021 approximated based on flow rates for 8/19/2021 and 8/20/2021

3 - Total flow volume for 24-hour temporal composite sample collected at 6:36 am on 9/15/2021 approximated based on flow rates for 9/14/2021 and 9/14/2021

***Acronyms:***

gal - gallons

MGD - millions of gallons per day

**TABLE B10-1**
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC - Q3 2021**
**Chemours Fayetteville Works, North Carolina**

| Q3 2021 Monthly Event | Pathway/ Location | Sample Collection Timepoint | Flow Gauging Location[1] | Travel Time Offset (hr)[2] | Adjusted Flow Gauging Timepoint | Composite Sample 24-Hour Flow Volume (MGD)[3] | Grab Sample Instantaneous Flow Rate ($ft^3/s$)[4] |
|---|---|---|---|---|---|---|---|
| July 2021 | Upstream River Water and Groundwater | 7/27/2021 10:10 | William O Huske Lock and Dam | -- | 7/27/2021 10:10 | -- | 2,120 |
| | Tarheel (Composite Sample) | 7/29/2021 16:45 | William O Huske Lock and Dam | 7 | 7/29/2021 9:30 | 2,922 | -- |
| | Tarheel (Grab Sample) | 7/28/2021 8:50 | William O Huske Lock and Dam | 7 | 7/28/2021 3:45 | -- | 4,220 |
| | Bladen Bluff | 7/27/2021 16:51 | William O Huske Lock and Dam | 5 | 7/27/2021 12:00 | -- | 2,640 |
| | Kings Bluff | 7/30/2021 11:10 | Cape Fear River Lock and Dam #1 | -- | 7/30/2021 11:10 | -- | 3,070 |
| August 2021 | Upstream River Water and Groundwater | 8/18/2021 12:50 | William O Huske Lock and Dam | -- | 8/18/2021 12:50 | -- | 1,840 |
| | Tarheel (Composite Sample) | 8/20/2021 7:30 | William O Huske Lock and Dam | 7 | 8/20/2021 1:15 | 2,645 | -- |
| | Tarheel (Grab Sample) | 8/19/2021 9:50 | William O Huske Lock and Dam | 7 | 8/19/2021 2:00 | -- | 2,270 |
| | Bladen Bluff | 8/19/2021 9:20 | William O Huske Lock and Dam | 5 | 8/19/2021 4:00 | -- | 2,330 |
| | Kings Bluff | 8/25/2021 10:40 | Cape Fear River Lock and Dam #1 | -- | 8/25/2021 10:40 | -- | 3,720 |
| September 2021 | Upstream River Water and Groundwater | 9/14/2021 12:10 | William O Huske Lock and Dam | -- | 9/14/2021 12:10 | -- | 1,140 |
| | Tarheel (Composite Sample) | 9/15/2021 20:36 | William O Huske Lock and Dam | 7 | 9/15/2021 6:15 | 1,013 | -- |
| | Tarheel (Grab Sample) | 9/15/2021 9:00 | William O Huske Lock and Dam | 7 | 9/14/2021 19:00 | -- | 1,120 |
| | Bladen Bluff | 9/14/2021 17:45 | William O Huske Lock and Dam | 5 | 9/14/2021 8:30 | -- | 1,140 |
| | Kings Bluff | 9/21/2021 13:55 | Cape Fear River Lock and Dam #1 | -- | 9/21/2021 13:55 | -- | 1,100 |

***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 Tarheel 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:***

$ft^3/s$ - cubic feet per second
hr - hours
MGD - millions of gallons per day

**TABLE B10-2**
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate ($ft^3$/sec) | Flow Volume (gal) | Gage Height (ft) | Precipitation (in)[1] |
|---|---|---|---|---|
| 7/27/2021 0:00 | 1,700 | 11,445,165 | 1.90 | 0 |
| 7/27/2021 0:15 | 1,680 | 11,310,516 | 1.89 | 0 |
| 7/27/2021 0:30 | 1,700 | 11,445,165 | 1.90 | 0 |
| 7/27/2021 0:45 | 1,700 | 11,445,165 | 1.90 | 0 |
| 7/27/2021 1:00 | 1,680 | 11,310,516 | 1.89 | 0 |
| 7/27/2021 1:15 | 1,680 | 11,310,516 | 1.89 | 0 |
| 7/27/2021 1:30 | 1,670 | 11,243,191 | 1.88 | 0 |
| 7/27/2021 1:45 | 1,680 | 11,310,516 | 1.89 | 0 |
| 7/27/2021 2:00 | 1,670 | 11,243,191 | 1.88 | 0 |
| 7/27/2021 2:15 | 1,680 | 11,310,516 | 1.89 | 0 |
| 7/27/2021 2:30 | 1,670 | 11,243,192 | 1.88 | 0 |
| 7/27/2021 2:45 | 1,670 | 11,243,191 | 1.88 | 0 |
| 7/27/2021 3:00 | 1,670 | 11,243,191 | 1.88 | 0 |
| 7/27/2021 3:15 | 1,670 | 11,243,192 | 1.88 | 0 |
| 7/27/2021 3:30 | 1,670 | 11,243,191 | 1.88 | 0 |
| 7/27/2021 3:45 | 1,670 | 11,243,191 | 1.88 | 0 |
| 7/27/2021 4:00 | 1,650 | 11,108,543 | 1.87 | 0 |
| 7/27/2021 4:15 | 1,670 | 11,243,191 | 1.88 | 0 |
| 7/27/2021 4:30 | 1,670 | 11,243,191 | 1.88 | 0 |
| 7/27/2021 4:45 | 1,720 | 11,579,814 | 1.92 | 0 |
| 7/27/2021 5:00 | 1,680 | 11,310,516 | 1.89 | 0 |
| 7/27/2021 5:15 | 1,650 | 11,108,542 | 1.87 | 0 |
| 7/27/2021 5:30 | 1,650 | 11,108,543 | 1.87 | 0 |
| 7/27/2021 5:45 | 1,650 | 11,108,542 | 1.87 | 0 |
| 7/27/2021 6:00 | 1,670 | 11,243,191 | 1.88 | 0 |
| 7/27/2021 6:15 | 1,680 | 11,310,516 | 1.89 | 0 |
| 7/27/2021 6:30 | 1,680 | 11,310,516 | 1.89 | 0 |
| 7/27/2021 6:45 | 1,690 | 11,377,840 | 1.90 | 0 |
| 7/27/2021 7:00 | 1,710 | 11,512,490 | 1.91 | 0 |
| 7/27/2021 7:15 | 1,720 | 11,579,814 | 1.92 | 0 |
| 7/27/2021 7:30 | 1,710 | 11,512,489 | 1.91 | 0 |
| 7/27/2021 7:45 | 1,740 | 11,714,463 | 1.93 | 0 |
| 7/27/2021 8:00 | 1,760 | 11,849,112 | 1.95 | 0 |
| 7/27/2021 8:15 | 1,780 | 11,983,761 | 1.96 | 0 |
| 7/27/2021 8:30 | 1,810 | 12,185,735 | 1.98 | 0 |
| 7/27/2021 8:45 | 1,850 | 12,455,032 | 2.01 | 0 |
| 7/27/2021 9:00 | 1,880 | 12,657,006 | 2.03 | 0 |
| 7/27/2021 9:15 | 1,920 | 12,926,304 | 2.06 | 0 |
| 7/27/2021 9:30 | 1,970 | 13,262,926 | 2.09 | 0 |
| 7/27/2021 9:45 | 2,010 | 13,532,224 | 2.12 | 0 |
| 7/27/2021 10:00 | 2,060 | 13,868,847 | 2.15 | 0 |
| 7/27/2021 10:15 | 2,120 | 14,272,794 | 2.19 | 0 |
| 7/27/2021 10:30 | 2,190 | 14,744,065 | 2.23 | 0 |
| 7/27/2021 10:45 | 2,270 | 15,282,662 | 2.28 | 0 |
| 7/27/2021 11:00 | 2,330 | 15,686,608 | 2.32 | 0 |
| 7/27/2021 11:15 | 2,420 | 16,292,529 | 2.37 | 0 |
| 7/27/2021 11:30 | 2,490 | 16,763,801 | 2.41 | 0 |
| 7/27/2021 11:45 | 2,570 | 17,302,396 | 2.46 | 0 |
| 7/27/2021 12:00 | 2,640 | 17,773,668 | 2.50 | 0 |
| 7/27/2021 12:15 | 2,730 | 18,379,589 | 2.55 | 0 |
| 7/27/2021 12:30 | 2,810 | 18,918,184 | 2.59 | 0 |

**TABLE B10-2**
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate ($ft^3$/sec) | Flow Volume (gal) | Gage Height (ft) | Precipitation (in)[1] |
|---|---|---|---|---|
| 7/27/2021 12:45 | 2,880 | 19,389,456 | 2.63 | 0 |
| 7/27/2021 13:00 | 2,960 | 19,928,052 | 2.67 | 0 |
| 7/27/2021 13:15 | 3,040 | 20,466,648 | 2.71 | 0 |
| 7/27/2021 13:30 | 3,110 | 20,937,919 | 2.75 | 0 |
| 7/27/2021 13:45 | 3,190 | 21,476,516 | 2.79 | 0 |
| 7/27/2021 14:00 | 3,250 | 21,880,462 | 2.82 | 0 |
| 7/27/2021 14:15 | 3,330 | 22,419,058 | 2.86 | 0 |
| 7/27/2021 14:30 | 3,400 | 22,890,330 | 2.89 | 0 |
| 7/27/2021 14:45 | 3,480 | 23,428,926 | 2.93 | 0 |
| 7/27/2021 15:00 | 3,520 | 23,698,224 | 2.95 | 0 |
| 7/27/2021 15:15 | 3,610 | 24,304,145 | 2.99 | 0 |
| 7/27/2021 15:30 | 3,650 | 24,573,442 | 3.01 | 0 |
| 7/27/2021 15:45 | 3,710 | 24,977,389 | 3.04 | 0 |
| 7/27/2021 16:00 | 3,800 | 25,583,310 | 3.08 | 0 |
| 7/27/2021 16:15 | 3,800 | 25,583,310 | 3.08 | 0 |
| 7/27/2021 16:30 | 3,860 | 25,987,257 | 3.11 | 0 |
| 7/27/2021 16:45 | 3,900 | 26,256,555 | 3.13 | 0 |
| 7/27/2021 17:00 | 3,950 | 26,593,177 | 3.15 | 0 |
| 7/27/2021 17:15 | 3,990 | 26,862,475 | 3.17 | 0 |
| 7/27/2021 17:30 | 4,060 | 27,333,747 | 3.20 | 0 |
| 7/27/2021 17:45 | 4,100 | 27,603,045 | 3.22 | 0 |
| 7/27/2021 18:00 | 4,150 | 27,939,667 | 3.24 | 0 |
| 7/27/2021 18:15 | 4,170 | 28,074,317 | 3.25 | 0 |
| 7/27/2021 18:30 | 4,170 | 28,074,316 | 3.25 | 0 |
| 7/27/2021 18:45 | 4,220 | 28,410,939 | 3.27 | 0 |
| 7/27/2021 19:00 | 4,190 | 28,208,966 | 3.26 | 0 |
| 7/27/2021 19:15 | 4,260 | 28,680,237 | 3.29 | 0 |
| 7/27/2021 19:30 | 4,310 | 29,016,859 | 3.31 | 0 |
| 7/27/2021 19:45 | 4,330 | 29,151,509 | 3.32 | 0 |
| 7/27/2021 20:00 | 4,350 | 29,286,157 | 3.33 | 0 |
| 7/27/2021 20:15 | 4,380 | 29,488,131 | 3.34 | 0 |
| 7/27/2021 20:30 | 4,420 | 29,757,429 | 3.36 | 0 |
| 7/27/2021 20:45 | 4,420 | 29,757,429 | 3.36 | 0 |
| 7/27/2021 21:00 | 4,420 | 29,757,429 | 3.36 | 0 |
| 7/27/2021 21:15 | 4,450 | 29,959,403 | 3.37 | 0 |
| 7/27/2021 21:30 | 4,470 | 30,094,051 | 3.38 | 0 |
| 7/27/2021 21:45 | 4,450 | 29,959,402 | 3.37 | 0 |
| 7/27/2021 22:00 | 4,470 | 30,094,052 | 3.38 | 0 |
| 7/27/2021 22:15 | 4,470 | 30,094,051 | 3.38 | 0 |
| 7/27/2021 22:30 | 4,470 | 30,094,051 | 3.38 | 0 |
| 7/27/2021 22:45 | 4,500 | 30,296,025 | 3.39 | 0 |
| 7/27/2021 23:00 | 4,470 | 30,094,051 | 3.38 | 0 |
| 7/27/2021 23:15 | 4,450 | 29,959,402 | 3.37 | 0 |
| 7/27/2021 23:30 | 4,470 | 30,094,052 | 3.38 | 0 |
| 7/27/2021 23:45 | 4,450 | 29,959,402 | 3.37 | 0 |
| 7/28/2021 0:00 | 4,450 | 29,959,402 | 3.37 | 0 |
| 7/28/2021 0:15 | 4,450 | 29,959,403 | 3.37 | 0 |
| 7/28/2021 0:30 | 4,420 | 29,757,429 | 3.36 | 0 |
| 7/28/2021 0:45 | 4,420 | 29,757,429 | 3.36 | 0 |
| 7/28/2021 1:00 | 4,400 | 29,622,780 | 3.35 | 0 |
| 7/28/2021 1:15 | 4,400 | 29,622,780 | 3.35 | 0 |

**TABLE B10-2**
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate ($ft^3$/sec) | Flow Volume (gal) | Gage Height (ft) | Precipitation (in)[1] |
|---|---|---|---|---|
| 7/28/2021 1:30 | 4,350 | 29,286,157 | 3.33 | 0 |
| 7/28/2021 1:45 | 4,380 | 29,488,131 | 3.34 | 0 |
| 7/28/2021 2:00 | 4,350 | 29,286,157 | 3.33 | 0 |
| 7/28/2021 2:15 | 4,350 | 29,286,157 | 3.33 | 0 |
| 7/28/2021 2:30 | 4,310 | 29,016,860 | 3.31 | 0 |
| 7/28/2021 2:45 | 4,310 | 29,016,859 | 3.31 | 0 |
| 7/28/2021 3:00 | 4,290 | 28,882,210 | 3.30 | 0 |
| 7/28/2021 3:15 | 4,260 | 28,680,237 | 3.29 | 0 |
| 7/28/2021 3:30 | 4,260 | 28,680,237 | 3.29 | 0 |
| 7/28/2021 3:45 | 4,220 | 28,410,939 | 3.27 | 0 |
| 7/28/2021 4:00 | 4,220 | 28,410,939 | 3.27 | 0 |
| 7/28/2021 4:15 | 4,190 | 28,208,965 | 3.26 | 0 |
| 7/28/2021 4:30 | 4,170 | 28,074,316 | 3.25 | 0 |
| 7/28/2021 4:45 | 4,150 | 27,939,668 | 3.24 | 0 |
| 7/28/2021 5:00 | 4,130 | 27,805,018 | 3.23 | 0 |
| 7/28/2021 5:15 | 4,100 | 27,603,045 | 3.22 | 0 |
| 7/28/2021 5:30 | 4,080 | 27,468,396 | 3.21 | 0 |
| 7/28/2021 5:45 | 4,060 | 27,333,747 | 3.20 | 0 |
| 7/28/2021 6:00 | 4,040 | 27,199,098 | 3.19 | 0 |
| 7/28/2021 6:15 | 3,990 | 26,862,476 | 3.17 | 0 |
| 7/28/2021 6:30 | 3,970 | 26,727,826 | 3.16 | 0 |
| 7/28/2021 6:45 | 3,950 | 26,593,177 | 3.15 | 0 |
| 7/28/2021 7:00 | 3,950 | 26,593,178 | 3.15 | 0 |
| 7/28/2021 7:15 | 3,910 | 26,323,879 | 3.13 | 0 |
| 7/28/2021 7:30 | 3,880 | 26,121,906 | 3.12 | 0 |
| 7/28/2021 7:45 | 3,880 | 26,121,906 | 3.12 | 0 |
| 7/28/2021 8:00 | 3,860 | 25,987,257 | 3.11 | 0 |
| 7/28/2021 8:15 | 3,820 | 25,717,959 | 3.09 | 0 |
| 7/28/2021 8:30 | 3,820 | 25,717,959 | 3.09 | 0 |
| 7/28/2021 8:45 | 3,780 | 25,448,661 | 3.07 | 0 |
| 7/28/2021 9:00 | 3,780 | 25,448,661 | 3.07 | 0 |
| 7/28/2021 9:15 | 3,750 | 25,246,688 | 3.06 | 0 |
| 7/28/2021 9:30 | 3,730 | 25,112,038 | 3.05 | 0 |
| 7/28/2021 9:45 | 3,710 | 24,977,389 | 3.04 | 0 |
| 7/28/2021 10:00 | 3,670 | 24,708,092 | 3.02 | 0 |
| 7/28/2021 10:15 | 3,650 | 24,573,442 | 3.01 | 0 |
| 7/28/2021 10:30 | 3,630 | 24,438,793 | 3.00 | 0 |
| 7/28/2021 10:45 | 3,610 | 24,304,145 | 2.99 | 0 |
| 7/28/2021 11:00 | 3,580 | 24,102,171 | 2.98 | 0 |
| 7/28/2021 11:15 | 3,540 | 23,832,873 | 2.96 | 0 |
| 7/28/2021 11:30 | 3,540 | 23,832,873 | 2.96 | 0 |
| 7/28/2021 11:45 | 3,520 | 23,698,224 | 2.95 | 0 |
| 7/28/2021 12:00 | 3,500 | 23,563,575 | 2.94 | 0 |
| 7/28/2021 12:15 | 3,480 | 23,428,926 | 2.93 | 0 |
| 7/28/2021 12:30 | 3,460 | 23,294,277 | 2.92 | 0 |
| 7/28/2021 12:45 | 3,440 | 23,159,628 | 2.91 | 0 |
| 7/28/2021 13:00 | 3,420 | 23,024,979 | 2.90 | 0 |
| 7/28/2021 13:15 | 3,400 | 22,890,330 | 2.89 | 0 |
| 7/28/2021 13:30 | 3,380 | 22,755,681 | 2.88 | 0 |
| 7/28/2021 13:45 | 3,350 | 22,553,708 | 2.87 | 0 |
| 7/28/2021 14:00 | 3,330 | 22,419,058 | 2.86 | 0 |

**TABLE B10-2**
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate ($ft^3$/sec) | Flow Volume (gal) | Gage Height (ft) | Precipitation (in)[1] |
|---|---|---|---|---|
| 7/28/2021 14:15 | 3,310 | 22,284,409 | 2.85 | 0 |
| 7/28/2021 14:30 | 3,290 | 22,149,761 | 2.84 | 0 |
| 7/28/2021 14:45 | 3,270 | 22,015,111 | 2.83 | 0 |
| 7/28/2021 15:00 | 3,250 | 21,880,462 | 2.82 | 0 |
| 7/28/2021 15:15 | 3,230 | 21,745,814 | 2.81 | 0 |
| 7/28/2021 15:30 | 3,210 | 21,611,164 | 2.80 | 0 |
| 7/28/2021 15:45 | 3,190 | 21,476,515 | 2.79 | 0 |
| 7/28/2021 16:00 | 3,170 | 21,341,867 | 2.78 | 0 |
| 7/28/2021 16:15 | 3,150 | 21,207,217 | 2.77 | 0 |
| 7/28/2021 16:30 | 3,130 | 21,072,568 | 2.76 | 0 |
| 7/28/2021 16:45 | 3,130 | 21,072,569 | 2.76 | 0 |
| 7/28/2021 17:00 | 3,090 | 20,803,270 | 2.74 | 0 |
| 7/28/2021 17:15 | 3,070 | 20,668,621 | 2.73 | 0 |
| 7/28/2021 17:30 | 3,050 | 20,533,973 | 2.72 | 0 |
| 7/28/2021 17:45 | 3,040 | 20,466,648 | 2.71 | 0 |
| 7/28/2021 18:00 | 3,040 | 20,466,648 | 2.71 | 0 |
| 7/28/2021 18:15 | 3,020 | 20,331,999 | 2.70 | 0 |
| 7/28/2021 18:30 | 3,000 | 20,197,350 | 2.69 | 0 |
| 7/28/2021 18:45 | 3,000 | 20,197,350 | 2.69 | 0 |
| 7/28/2021 19:00 | 2,960 | 19,928,052 | 2.67 | 0 |
| 7/28/2021 19:15 | 3,020 | 20,331,999 | 2.70 | 0 |
| 7/28/2021 19:30 | 3,000 | 20,197,350 | 2.69 | 0 |
| 7/28/2021 19:45 | 2,960 | 19,928,052 | 2.67 | 0 |
| 7/28/2021 20:00 | 2,940 | 19,793,403 | 2.66 | 0 |
| 7/28/2021 20:15 | 2,940 | 19,793,403 | 2.66 | 0 |
| 7/28/2021 20:30 | 2,940 | 19,793,403 | 2.66 | 0 |
| 7/28/2021 20:45 | 2,940 | 19,793,403 | 2.66 | 0 |
| 7/28/2021 21:00 | 2,940 | 19,793,403 | 2.66 | 0 |
| 7/28/2021 21:15 | 2,900 | 19,524,105 | 2.64 | 0 |
| 7/28/2021 21:30 | 2,880 | 19,389,456 | 2.63 | 0 |
| 7/28/2021 21:45 | 2,880 | 19,389,456 | 2.63 | 0 |
| 7/28/2021 22:00 | 2,880 | 19,389,456 | 2.63 | 0 |
| 7/28/2021 22:15 | 2,880 | 19,389,456 | 2.63 | 0 |
| 7/28/2021 22:30 | 2,860 | 19,254,807 | 2.62 | 0 |
| 7/28/2021 22:45 | 2,860 | 19,254,807 | 2.62 | 0 |
| 7/28/2021 23:00 | 2,840 | 19,120,158 | 2.61 | 0 |
| 7/28/2021 23:15 | 2,860 | 19,254,807 | 2.62 | 0 |
| 7/28/2021 23:30 | 2,840 | 19,120,158 | 2.61 | 0 |
| 7/28/2021 23:45 | 2,840 | 19,120,158 | 2.61 | 0 |
| 7/29/2021 0:00 | 2,830 | 19,052,833 | 2.60 | 0 |
| 7/29/2021 0:15 | 2,830 | 19,052,834 | 2.60 | 0 |
| 7/29/2021 0:30 | 2,830 | 19,052,833 | 2.60 | 0 |
| 7/29/2021 0:45 | 2,840 | 19,120,158 | 2.61 | 0 |
| 7/29/2021 1:00 | 2,810 | 18,918,185 | 2.59 | 0 |
| 7/29/2021 1:15 | 2,810 | 18,918,184 | 2.59 | 0 |
| 7/29/2021 1:30 | 2,790 | 18,783,535 | 2.58 | 0 |
| 7/29/2021 1:45 | 2,810 | 18,918,185 | 2.59 | 0 |
| 7/29/2021 2:00 | 2,790 | 18,783,535 | 2.58 | 0 |
| 7/29/2021 2:15 | 2,790 | 18,783,535 | 2.58 | 0 |
| 7/29/2021 2:30 | 2,770 | 18,648,887 | 2.57 | 0 |
| 7/29/2021 2:45 | 2,770 | 18,648,886 | 2.57 | 0 |

**TABLE B10-2**
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate ($ft^3$/sec) | Flow Volume (gal) | Gage Height (ft) | Precipitation (in)[1] |
|---|---|---|---|---|
| 7/29/2021 3:00 | 2,770 | 18,648,886 | 2.57 | 0 |
| 7/29/2021 3:15 | 2,770 | 18,648,887 | 2.57 | 0 |
| 7/29/2021 3:30 | 2,750 | 18,514,237 | 2.56 | 0 |
| 7/29/2021 3:45 | 2,750 | 18,514,237 | 2.56 | 0 |
| 7/29/2021 4:00 | 2,750 | 18,514,238 | 2.56 | 0 |
| 7/29/2021 4:15 | 2,730 | 18,379,588 | 2.55 | 0 |
| 7/29/2021 4:30 | 2,730 | 18,379,588 | 2.55 | 0 |
| 7/29/2021 4:45 | 2,720 | 18,312,264 | 2.54 | 0 |
| 7/29/2021 5:00 | 2,720 | 18,312,264 | 2.54 | 0 |
| 7/29/2021 5:15 | 2,700 | 18,177,615 | 2.53 | 0 |
| 7/29/2021 5:30 | 2,680 | 18,042,966 | 2.52 | 0 |
| 7/29/2021 5:45 | 2,680 | 18,042,966 | 2.52 | 0 |
| 7/29/2021 6:00 | 2,660 | 17,908,317 | 2.51 | 0 |
| 7/29/2021 6:15 | 2,660 | 17,908,317 | 2.51 | 0 |
| 7/29/2021 6:30 | 2,640 | 17,773,668 | 2.50 | 0 |
| 7/29/2021 6:45 | 2,640 | 17,773,668 | 2.50 | 0 |
| 7/29/2021 7:00 | 2,640 | 17,773,668 | 2.50 | 0 |
| 7/29/2021 7:15 | 2,640 | 17,773,668 | 2.50 | 0 |
| 7/29/2021 7:30 | 2,620 | 17,639,019 | 2.49 | 0 |
| 7/29/2021 7:45 | 2,620 | 17,639,019 | 2.49 | 0 |
| 7/29/2021 8:00 | 2,610 | 17,571,694 | 2.48 | 0 |
| 7/29/2021 8:15 | 2,610 | 17,571,694 | 2.48 | 0 |
| 7/29/2021 8:30 | 2,610 | 17,571,695 | 2.48 | 0 |
| 7/29/2021 8:45 | 2,590 | 17,437,045 | 2.47 | 0 |
| 7/29/2021 9:00 | 2,590 | 17,437,045 | 2.47 | 0 |
| 7/29/2021 9:15 | 2,570 | 17,302,397 | 2.46 | 0 |
| 7/29/2021 9:30 | 2,570 | 17,302,396 | 2.46 | 0 |
| 7/29/2021 9:45 | 2,570 | 17,302,396 | 2.46 | 0 |
| 7/29/2021 10:00 | 2,550 | 17,167,748 | 2.45 | 0 |
| 7/29/2021 10:15 | 2,540 | 17,100,423 | 2.44 | 0 |
| 7/29/2021 10:30 | 2,540 | 17,100,423 | 2.44 | 0 |
| 7/29/2021 10:45 | 2,540 | 17,100,423 | 2.44 | 0 |
| 7/29/2021 11:00 | 2,540 | 17,100,423 | 2.44 | 0 |
| 7/29/2021 11:15 | 2,540 | 17,100,423 | 2.44 | 0 |
| 7/29/2021 11:30 | 2,540 | 17,100,423 | 2.44 | 0 |
| 7/29/2021 11:45 | 2,540 | 17,100,423 | 2.44 | 0 |
| 7/29/2021 12:00 | 2,540 | 17,100,423 | 2.44 | 0 |
| 7/29/2021 12:15 | 2,520 | 16,965,774 | 2.43 | 0 |
| 7/29/2021 12:30 | 2,520 | 16,965,774 | 2.43 | 0 |
| 7/29/2021 12:45 | 2,500 | 16,831,125 | 2.42 | 0 |
| 7/29/2021 13:00 | 2,500 | 16,831,125 | 2.42 | 0 |
| 7/29/2021 13:15 | 2,500 | 16,831,125 | 2.42 | 0 |
| 7/29/2021 13:30 | 2,500 | 16,831,125 | 2.42 | 0 |
| 7/29/2021 13:45 | 2,500 | 16,831,125 | 2.42 | 0 |
| 7/29/2021 14:00 | 2,480 | 16,696,476 | 2.41 | 0 |
| 7/29/2021 14:15 | 2,480 | 16,696,476 | 2.41 | 0 |
| 7/29/2021 14:30 | 2,480 | 16,696,476 | 2.41 | 0 |
| 7/29/2021 14:45 | 2,480 | 16,696,476 | 2.41 | 0 |
| 7/29/2021 15:00 | 2,480 | 16,696,476 | 2.41 | 0 |
| 7/29/2021 15:15 | 2,480 | 16,696,476 | 2.41 | 0 |
| 7/29/2021 15:30 | 2,480 | 16,696,476 | 2.41 | 0 |

**TABLE B10-2**
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate ($ft^3$/sec) | Flow Volume (gal) | Gage Height (ft) | Precipitation (in)[1] |
|---|---|---|---|---|
| 7/29/2021 15:45 | 2,480 | 16,696,476 | 2.41 | 0 |
| 7/29/2021 16:00 | 2,470 | 16,629,152 | 2.40 | 0 |
| 7/29/2021 16:15 | 2,470 | 16,629,151 | 2.40 | 0 |
| 7/29/2021 16:30 | 2,470 | 16,629,151 | 2.40 | 0 |
| 7/29/2021 16:45 | 2,470 | 16,629,152 | 2.40 | 0 |
| 7/29/2021 17:00 | 2,450 | 16,494,502 | 2.39 | 0 |
| 7/29/2021 17:15 | 2,450 | 16,494,502 | 2.39 | 0 |
| 7/29/2021 17:30 | 2,450 | 16,494,503 | 2.39 | 0 |
| 7/29/2021 17:45 | 2,450 | 16,494,502 | 2.39 | 0 |
| 7/29/2021 18:00 | 2,430 | 16,359,853 | 2.38 | 0 |
| 7/29/2021 18:15 | 2,430 | 16,359,854 | 2.38 | 0 |
| 7/29/2021 18:30 | 2,430 | 16,359,853 | 2.38 | 0 |
| 7/29/2021 18:45 | 2,430 | 16,359,853 | 2.38 | 0 |
| 7/29/2021 19:00 | 2,430 | 16,359,854 | 2.38 | 0 |
| 7/29/2021 19:15 | 2,430 | 16,359,853 | 2.38 | 0 |
| 7/29/2021 19:30 | 2,410 | 16,225,204 | 2.37 | 0 |
| 7/29/2021 19:45 | 2,430 | 16,359,854 | 2.38 | 0 |
| 7/29/2021 20:00 | 2,410 | 16,225,204 | 2.37 | 0 |
| 7/29/2021 20:15 | 2,410 | 16,225,204 | 2.37 | 0 |
| 7/29/2021 20:30 | 2,400 | 16,157,880 | 2.36 | 0 |
| 7/29/2021 20:45 | 2,400 | 16,157,880 | 2.36 | 0 |
| 7/29/2021 21:00 | 2,400 | 16,157,880 | 2.36 | 0 |
| 7/29/2021 21:15 | 2,400 | 16,157,880 | 2.36 | 0 |
| 7/29/2021 21:30 | 2,400 | 16,157,880 | 2.36 | 0 |
| 7/29/2021 21:45 | 2,380 | 16,023,231 | 2.35 | 0 |
| 7/29/2021 22:00 | 2,380 | 16,023,231 | 2.35 | 0 |
| 7/29/2021 22:15 | 2,380 | 16,023,231 | 2.35 | 0 |
| 7/29/2021 22:30 | 2,380 | 16,023,231 | 2.35 | 0 |
| 7/29/2021 22:45 | 2,380 | 16,023,231 | 2.35 | 0 |
| 7/29/2021 23:00 | 2,360 | 15,888,582 | 2.34 | 0 |
| 7/29/2021 23:15 | 2,360 | 15,888,582 | 2.34 | 0 |
| 7/29/2021 23:30 | 2,360 | 15,888,582 | 2.34 | 0 |
| 7/29/2021 23:45 | 2,360 | 15,888,582 | 2.34 | 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.

$ft^3$/sec - cubic feet per second
ft - feet
gal - gallons
in - inches
USGS - United States Geological Survey

**TABLE B10-3**
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate ($ft^3/sec$) | Flow Volume (gal) | Gage Height (ft) | Precipitation (in)[1] |
|---|---|---|---|---|
| 8/18/2021 0:00 | 1,630 | 10,973,893 | 1.89 | 0 |
| 8/18/2021 0:15 | 1,630 | 10,973,894 | 1.89 | 0 |
| 8/18/2021 0:30 | 1,630 | 10,973,893 | 1.89 | 0 |
| 8/18/2021 0:45 | 1,630 | 10,973,893 | 1.89 | 0 |
| 8/18/2021 1:00 | 1,630 | 10,973,894 | 1.89 | 0 |
| 8/18/2021 1:15 | 1,630 | 10,973,893 | 1.89 | 0 |
| 8/18/2021 1:30 | 1,640 | 11,041,218 | 1.90 | 0 |
| 8/18/2021 1:45 | 1,660 | 11,175,867 | 1.91 | 0 |
| 8/18/2021 2:00 | 1,640 | 11,041,218 | 1.90 | 0 |
| 8/18/2021 2:15 | 1,660 | 11,175,867 | 1.91 | 0 |
| 8/18/2021 2:30 | 1,660 | 11,175,867 | 1.91 | 0 |
| 8/18/2021 2:45 | 1,660 | 11,175,867 | 1.91 | 0 |
| 8/18/2021 3:00 | 1,660 | 11,175,867 | 1.91 | 0 |
| 8/18/2021 3:15 | 1,660 | 11,175,867 | 1.91 | 0 |
| 8/18/2021 3:30 | 1,660 | 11,175,867 | 1.91 | 0 |
| 8/18/2021 3:45 | 1,670 | 11,243,191 | 1.92 | 0 |
| 8/18/2021 4:00 | 1,660 | 11,175,867 | 1.91 | 0 |
| 8/18/2021 4:15 | 1,660 | 11,175,867 | 1.91 | 0 |
| 8/18/2021 4:30 | 1,670 | 11,243,191 | 1.92 | 0 |
| 8/18/2021 4:45 | 1,660 | 11,175,867 | 1.91 | 0 |
| 8/18/2021 5:00 | 1,670 | 11,243,191 | 1.92 | 0 |
| 8/18/2021 5:15 | 1,670 | 11,243,191 | 1.92 | 0 |
| 8/18/2021 5:30 | 1,680 | 11,310,516 | 1.93 | 0 |
| 8/18/2021 5:45 | 1,680 | 11,310,516 | 1.93 | 0 |
| 8/18/2021 6:00 | 1,680 | 11,310,516 | 1.93 | 0 |
| 8/18/2021 6:15 | 1,680 | 11,310,516 | 1.93 | 0 |
| 8/18/2021 6:30 | 1,680 | 11,310,516 | 1.93 | 0 |
| 8/18/2021 6:45 | 1,680 | 11,310,516 | 1.93 | 0 |
| 8/18/2021 7:00 | 1,680 | 11,310,516 | 1.93 | 0 |
| 8/18/2021 7:15 | 1,680 | 11,310,516 | 1.93 | 0 |
| 8/18/2021 7:30 | 1,680 | 11,310,516 | 1.93 | 0 |
| 8/18/2021 7:45 | 1,680 | 11,310,516 | 1.93 | 0 |
| 8/18/2021 8:00 | 1,680 | 11,310,516 | 1.93 | 0 |
| 8/18/2021 8:15 | 1,700 | 11,445,165 | 1.94 | 0 |
| 8/18/2021 8:30 | 1,700 | 11,445,165 | 1.94 | 0 |
| 8/18/2021 8:45 | 1,700 | 11,445,165 | 1.94 | 0 |
| 8/18/2021 9:00 | 1,700 | 11,445,165 | 1.94 | 0 |
| 8/18/2021 9:15 | 1,710 | 11,512,490 | 1.95 | 0.01 |
| 8/18/2021 9:30 | 1,710 | 11,512,489 | 1.95 | 0 |
| 8/18/2021 9:45 | 1,720 | 11,579,814 | 1.96 | 0 |
| 8/18/2021 10:00 | 1,740 | 11,714,463 | 1.97 | 0 |
| 8/18/2021 10:15 | 1,790 | 12,051,085 | 2.01 | 0.1 |
| 8/18/2021 10:30 | 1,820 | 12,253,059 | 2.03 | 0 |
| 8/18/2021 10:45 | 1,850 | 12,455,033 | 2.05 | 0 |
| 8/18/2021 11:00 | 1,820 | 12,253,059 | 2.03 | 0 |
| 8/18/2021 11:15 | 1,810 | 12,185,734 | 2.02 | 0 |
| 8/18/2021 11:30 | 1,810 | 12,185,735 | 2.02 | 0 |
| 8/18/2021 11:45 | 1,820 | 12,253,059 | 2.03 | 0 |
| 8/18/2021 12:00 | 1,820 | 12,253,059 | 2.03 | 0 |
| 8/18/2021 12:15 | 1,840 | 12,387,708 | 2.04 | 0 |
| 8/18/2021 12:30 | 1,840 | 12,387,708 | 2.04 | 0.01 |
| 8/18/2021 12:45 | 1,840 | 12,387,708 | 2.04 | 0 |
| 8/18/2021 13:00 | 1,850 | 12,455,033 | 2.05 | 0 |

**TABLE B10-3**
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate ($ft^3/sec$) | Flow Volume (gal) | Gage Height (ft) | Precipitation (in)[1] |
|---|---|---|---|---|
| 8/18/2021 13:15 | 1,850 | 12,455,032 | 2.05 | 0 |
| 8/18/2021 13:30 | 1,870 | 12,589,681 | 2.06 | 0 |
| 8/18/2021 13:45 | 1,890 | 12,724,331 | 2.07 | 0 |
| 8/18/2021 14:00 | 1,900 | 12,791,655 | 2.08 | 0 |
| 8/18/2021 14:15 | 1,900 | 12,791,655 | 2.08 | 0 |
| 8/18/2021 14:30 | 1,920 | 12,926,304 | 2.09 | 0 |
| 8/18/2021 14:45 | 1,920 | 12,926,304 | 2.09 | 0 |
| 8/18/2021 15:00 | 1,950 | 13,128,277 | 2.11 | 0 |
| 8/18/2021 15:15 | 1,950 | 13,128,278 | 2.11 | 0 |
| 8/18/2021 15:30 | 1,950 | 13,128,277 | 2.11 | 0 |
| 8/18/2021 15:45 | 1,960 | 13,195,602 | 2.12 | 0 |
| 8/18/2021 16:00 | 1,960 | 13,195,602 | 2.12 | 0 |
| 8/18/2021 16:15 | 1,980 | 13,330,251 | 2.13 | 0 |
| 8/18/2021 16:30 | 1,980 | 13,330,251 | 2.13 | 0 |
| 8/18/2021 16:45 | 1,990 | 13,397,576 | 2.14 | 0 |
| 8/18/2021 17:00 | 2,010 | 13,532,224 | 2.15 | 0 |
| 8/18/2021 17:15 | 2,030 | 13,666,873 | 2.16 | 0 |
| 8/18/2021 17:30 | 2,030 | 13,666,874 | 2.16 | 0 |
| 8/18/2021 17:45 | 2,040 | 13,734,198 | 2.17 | 0 |
| 8/18/2021 18:00 | 2,040 | 13,734,198 | 2.17 | 0 |
| 8/18/2021 18:15 | 2,040 | 13,734,198 | 2.17 | 0 |
| 8/18/2021 18:30 | 2,060 | 13,868,847 | 2.18 | 0 |
| 8/18/2021 18:45 | 2,060 | 13,868,847 | 2.18 | 0 |
| 8/18/2021 19:00 | 2,070 | 13,936,172 | 2.19 | 0 |
| 8/18/2021 19:15 | 2,070 | 13,936,171 | 2.19 | 0 |
| 8/18/2021 19:30 | 2,090 | 14,070,820 | 2.20 | 0 |
| 8/18/2021 19:45 | 2,090 | 14,070,821 | 2.20 | 0 |
| 8/18/2021 20:00 | 2,110 | 14,205,469 | 2.21 | 0 |
| 8/18/2021 20:15 | 2,120 | 14,272,794 | 2.22 | 0 |
| 8/18/2021 20:30 | 2,120 | 14,272,794 | 2.22 | 0 |
| 8/18/2021 20:45 | 2,140 | 14,407,443 | 2.23 | 0 |
| 8/18/2021 21:00 | 2,140 | 14,407,443 | 2.23 | 0 |
| 8/18/2021 21:15 | 2,160 | 14,542,092 | 2.24 | 0 |
| 8/18/2021 21:30 | 2,160 | 14,542,092 | 2.24 | 0 |
| 8/18/2021 21:45 | 2,170 | 14,609,416 | 2.25 | 0 |
| 8/18/2021 22:00 | 2,170 | 14,609,417 | 2.25 | 0 |
| 8/18/2021 22:15 | 2,170 | 14,609,416 | 2.25 | 0 |
| 8/18/2021 22:30 | 2,190 | 14,744,065 | 2.26 | 0 |
| 8/18/2021 22:45 | 2,190 | 14,744,066 | 2.26 | 0 |
| 8/18/2021 23:00 | 2,190 | 14,744,065 | 2.26 | 0 |
| 8/18/2021 23:15 | 2,210 | 14,878,714 | 2.27 | 0 |
| 8/18/2021 23:30 | 2,210 | 14,878,715 | 2.27 | 0 |
| 8/18/2021 23:45 | 2,210 | 14,878,714 | 2.27 | 0 |
| 8/19/2021 0:00 | 2,220 | 14,946,039 | 2.28 | 0 |
| 8/19/2021 0:15 | 2,220 | 14,946,039 | 2.28 | 0 |
| 8/19/2021 0:30 | 2,220 | 14,946,039 | 2.28 | 0 |
| 8/19/2021 0:45 | 2,260 | 15,215,337 | 2.30 | 0 |
| 8/19/2021 1:00 | 2,260 | 15,215,337 | 2.30 | 0 |
| 8/19/2021 1:15 | 2,260 | 15,215,337 | 2.30 | 0 |
| 8/19/2021 1:30 | 2,260 | 15,215,337 | 2.30 | 0 |
| 8/19/2021 1:45 | 2,270 | 15,282,662 | 2.31 | 0 |
| 8/19/2021 2:00 | 2,270 | 15,282,661 | 2.31 | 0 |
| 8/19/2021 2:15 | 2,290 | 15,417,310 | 2.32 | 0 |

**TABLE B10-3**
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate ($ft^3/sec$) | Flow Volume (gal) | Gage Height (ft) | Precipitation (in)[1] |
|---|---|---|---|---|
| 8/19/2021 2:30 | 2,290 | 15,417,311 | 2.32 | 0 |
| 8/19/2021 2:45 | 2,290 | 15,417,310 | 2.32 | 0 |
| 8/19/2021 3:00 | 2,290 | 15,417,310 | 2.32 | 0 |
| 8/19/2021 3:15 | 2,310 | 15,551,960 | 2.33 | 0 |
| 8/19/2021 3:30 | 2,310 | 15,551,959 | 2.33 | 0 |
| 8/19/2021 3:45 | 2,330 | 15,686,608 | 2.34 | 0 |
| 8/19/2021 4:00 | 2,330 | 15,686,609 | 2.34 | 0 |
| 8/19/2021 4:15 | 2,330 | 15,686,608 | 2.34 | 0 |
| 8/19/2021 4:30 | 2,340 | 15,753,933 | 2.35 | 0 |
| 8/19/2021 4:45 | 2,340 | 15,753,933 | 2.35 | 0 |
| 8/19/2021 5:00 | 2,340 | 15,753,933 | 2.35 | 0 |
| 8/19/2021 5:15 | 2,360 | 15,888,582 | 2.36 | 0 |
| 8/19/2021 5:30 | 2,360 | 15,888,582 | 2.36 | 0 |
| 8/19/2021 5:45 | 2,360 | 15,888,582 | 2.36 | 0 |
| 8/19/2021 6:00 | 2,380 | 16,023,231 | 2.37 | 0 |
| 8/19/2021 6:15 | 2,380 | 16,023,231 | 2.37 | 0 |
| 8/19/2021 6:30 | 2,400 | 16,157,880 | 2.38 | 0 |
| 8/19/2021 6:45 | 2,400 | 16,157,880 | 2.38 | 0 |
| 8/19/2021 7:00 | 2,400 | 16,157,880 | 2.38 | 0 |
| 8/19/2021 7:15 | 2,400 | 16,157,880 | 2.38 | 0 |
| 8/19/2021 7:30 | 2,410 | 16,225,204 | 2.39 | 0 |
| 8/19/2021 7:45 | 2,430 | 16,359,854 | 2.40 | 0 |
| 8/19/2021 8:00 | 2,430 | 16,359,853 | 2.40 | 0 |
| 8/19/2021 8:15 | 2,430 | 16,359,853 | 2.40 | 0 |
| 8/19/2021 8:30 | 2,450 | 16,494,503 | 2.41 | 0 |
| 8/19/2021 8:45 | 2,450 | 16,494,502 | 2.41 | 0 |
| 8/19/2021 9:00 | 2,470 | 16,629,151 | 2.42 | 0 |
| 8/19/2021 9:15 | 2,470 | 16,629,152 | 2.42 | 0 |
| 8/19/2021 9:30 | 2,480 | 16,696,476 | 2.43 | 0 |
| 8/19/2021 9:45 | 2,480 | 16,696,476 | 2.43 | 0 |
| 8/19/2021 10:00 | 2,500 | 16,831,125 | 2.44 | 0 |
| 8/19/2021 10:15 | 2,520 | 16,965,774 | 2.45 | 0 |
| 8/19/2021 10:30 | 2,520 | 16,965,774 | 2.45 | 0 |
| 8/19/2021 10:45 | 2,540 | 17,100,423 | 2.46 | 0 |
| 8/19/2021 11:00 | 2,560 | 17,235,072 | 2.47 | 0 |
| 8/19/2021 11:15 | 2,580 | 17,369,721 | 2.48 | 0 |
| 8/19/2021 11:30 | 2,580 | 17,369,721 | 2.48 | 0 |
| 8/19/2021 11:45 | 2,580 | 17,369,721 | 2.48 | 0 |
| 8/19/2021 12:00 | 2,610 | 17,571,694 | 2.50 | 0 |
| 8/19/2021 12:15 | 2,610 | 17,571,695 | 2.50 | 0 |
| 8/19/2021 12:30 | 2,630 | 17,706,343 | 2.51 | 0 |
| 8/19/2021 12:45 | 2,630 | 17,706,343 | 2.51 | 0 |
| 8/19/2021 13:00 | 2,650 | 17,840,993 | 2.52 | 0 |
| 8/19/2021 13:15 | 2,670 | 17,975,641 | 2.53 | 0 |
| 8/19/2021 13:30 | 2,670 | 17,975,641 | 2.53 | 0 |
| 8/19/2021 13:45 | 2,690 | 18,110,291 | 2.54 | 0 |
| 8/19/2021 14:00 | 2,710 | 18,244,939 | 2.55 | 0 |
| 8/19/2021 14:15 | 2,710 | 18,244,939 | 2.55 | 0 |
| 8/19/2021 14:30 | 2,720 | 18,312,264 | 2.56 | 0 |
| 8/19/2021 14:45 | 2,720 | 18,312,264 | 2.56 | 0 |
| 8/19/2021 15:00 | 2,740 | 18,446,913 | 2.57 | 0 |
| 8/19/2021 15:15 | 2,760 | 18,581,562 | 2.58 | 0 |
| 8/19/2021 15:30 | 2,760 | 18,581,562 | 2.58 | 0 |

**TABLE B10-3**
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate ($ft^3$/sec) | Flow Volume (gal) | Gage Height (ft) | Precipitation (in)[1] |
|---|---|---|---|---|
| 8/19/2021 15:45 | 2,760 | 18,581,562 | 2.58 | 0 |
| 8/19/2021 16:00 | 2,780 | 18,716,211 | 2.59 | 0 |
| 8/19/2021 16:15 | 2,780 | 18,716,211 | 2.59 | 0 |
| 8/19/2021 16:30 | 2,780 | 18,716,211 | 2.59 | 0 |
| 8/19/2021 16:45 | 2,800 | 18,850,860 | 2.60 | 0 |
| 8/19/2021 17:00 | 2,800 | 18,850,860 | 2.60 | 0 |
| 8/19/2021 17:15 | 2,800 | 18,850,860 | 2.60 | 0 |
| 8/19/2021 17:30 | 2,820 | 18,985,509 | 2.61 | 0 |
| 8/19/2021 17:45 | 2,820 | 18,985,509 | 2.61 | 0 |
| 8/19/2021 18:00 | 2,820 | 18,985,509 | 2.61 | 0 |
| 8/19/2021 18:15 | 2,820 | 18,985,509 | 2.61 | 0 |
| 8/19/2021 18:30 | 2,840 | 19,120,158 | 2.62 | 0 |
| 8/19/2021 18:45 | 2,840 | 19,120,158 | 2.62 | 0 |
| 8/19/2021 19:00 | 2,860 | 19,254,807 | 2.63 | 0 |
| 8/19/2021 19:15 | 2,860 | 19,254,807 | 2.63 | 0 |
| 8/19/2021 19:30 | 2,860 | 19,254,807 | 2.63 | 0 |
| 8/19/2021 19:45 | 2,880 | 19,389,456 | 2.64 | 0 |
| 8/19/2021 20:00 | 2,880 | 19,389,456 | 2.64 | 0 |
| 8/19/2021 20:15 | 2,900 | 19,524,105 | 2.65 | 0 |
| 8/19/2021 20:30 | 2,940 | 19,793,403 | 2.67 | 0 |
| 8/19/2021 20:45 | 2,960 | 19,928,052 | 2.68 | 0 |
| 8/19/2021 21:00 | 2,940 | 19,793,403 | 2.67 | 0 |
| 8/19/2021 21:15 | 2,960 | 19,928,052 | 2.68 | 0 |
| 8/19/2021 21:30 | 2,960 | 19,928,052 | 2.68 | 0 |
| 8/19/2021 21:45 | 2,960 | 19,928,052 | 2.68 | 0 |
| 8/19/2021 22:00 | 2,940 | 19,793,403 | 2.67 | 0 |
| 8/19/2021 22:15 | 3,000 | 20,197,350 | 2.70 | 0 |
| 8/19/2021 22:30 | 2,960 | 19,928,052 | 2.68 | 0 |
| 8/19/2021 22:45 | 2,980 | 20,062,701 | 2.69 | 0 |
| 8/19/2021 23:00 | 3,040 | 20,466,648 | 2.72 | 0.01 |
| 8/19/2021 23:15 | 3,080 | 20,735,946 | 2.74 | 0.2 |
| 8/19/2021 23:30 | 3,080 | 20,735,946 | 2.74 | 0.1 |
| 8/19/2021 23:45 | 3,100 | 20,870,595 | 2.75 | 0.01 |
| 8/20/2021 0:00 | 3,100 | 20,870,595 | 2.75 | 0 |
| 8/20/2021 0:15 | 3,100 | 20,870,595 | 2.75 | 0 |
| 8/20/2021 0:30 | 3,100 | 20,870,595 | 2.75 | 0 |
| 8/20/2021 0:45 | 3,120 | 21,005,244 | 2.76 | 0 |
| 8/20/2021 1:00 | 3,120 | 21,005,244 | 2.76 | 0 |
| 8/20/2021 1:15 | 3,140 | 21,139,893 | 2.77 | 0 |
| 8/20/2021 1:30 | 3,160 | 21,274,542 | 2.78 | 0 |
| 8/20/2021 1:45 | 3,160 | 21,274,542 | 2.78 | 0 |
| 8/20/2021 2:00 | 3,160 | 21,274,542 | 2.78 | 0 |
| 8/20/2021 2:15 | 3,160 | 21,274,542 | 2.78 | 0 |
| 8/20/2021 2:30 | 3,180 | 21,409,191 | 2.79 | 0 |
| 8/20/2021 2:45 | 3,200 | 21,543,840 | 2.80 | 0 |
| 8/20/2021 3:00 | 3,200 | 21,543,840 | 2.80 | 0 |
| 8/20/2021 3:15 | 3,220 | 21,678,489 | 2.81 | 0 |
| 8/20/2021 3:30 | 3,240 | 21,813,138 | 2.82 | 0 |
| 8/20/2021 3:45 | 3,240 | 21,813,138 | 2.82 | 0 |
| 8/20/2021 4:00 | 3,260 | 21,947,787 | 2.83 | 0 |
| 8/20/2021 4:15 | 3,260 | 21,947,787 | 2.83 | 0 |
| 8/20/2021 4:30 | 3,290 | 22,149,760 | 2.84 | 0 |
| 8/20/2021 4:45 | 3,310 | 22,284,410 | 2.85 | 0 |

**TABLE B10-3**
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate ($ft^3/sec$) | Flow Volume (gal) | Gage Height (ft) | Precipitation (in)[1] |
|---|---|---|---|---|
| 8/20/2021 5:00 | 3,310 | 22,284,409 | 2.85 | 0 |
| 8/20/2021 5:15 | 3,330 | 22,419,058 | 2.86 | 0 |
| 8/20/2021 5:30 | 3,350 | 22,553,708 | 2.87 | 0 |
| 8/20/2021 5:45 | 3,350 | 22,553,707 | 2.87 | 0 |
| 8/20/2021 6:00 | 3,350 | 22,553,707 | 2.87 | 0 |
| 8/20/2021 6:15 | 3,370 | 22,688,357 | 2.88 | 0 |
| 8/20/2021 6:30 | 3,370 | 22,688,356 | 2.88 | 0 |
| 8/20/2021 6:45 | 3,390 | 22,823,005 | 2.89 | 0 |
| 8/20/2021 7:00 | 3,410 | 22,957,655 | 2.90 | 0 |
| 8/20/2021 7:15 | 3,410 | 22,957,654 | 2.90 | 0 |
| 8/20/2021 7:30 | 3,410 | 22,957,654 | 2.90 | 0 |
| 8/20/2021 7:45 | 3,430 | 23,092,304 | 2.91 | 0 |
| 8/20/2021 8:00 | 3,430 | 23,092,303 | 2.91 | 0 |
| 8/20/2021 8:15 | 3,430 | 23,092,303 | 2.91 | 0 |
| 8/20/2021 8:30 | 3,460 | 23,294,277 | 2.92 | 0 |
| 8/20/2021 8:45 | 3,460 | 23,294,277 | 2.92 | 0 |
| 8/20/2021 9:00 | 3,460 | 23,294,277 | 2.92 | 0 |
| 8/20/2021 9:15 | 3,480 | 23,428,926 | 2.93 | 0 |
| 8/20/2021 9:30 | 3,480 | 23,428,926 | 2.93 | 0 |
| 8/20/2021 9:45 | 3,500 | 23,563,575 | 2.94 | 0 |
| 8/20/2021 10:00 | 3,500 | 23,563,575 | 2.94 | 0 |
| 8/20/2021 10:15 | 3,520 | 23,698,224 | 2.95 | 0 |
| 8/20/2021 10:30 | 3,520 | 23,698,224 | 2.95 | 0 |
| 8/20/2021 10:45 | 3,540 | 23,832,873 | 2.96 | 0 |
| 8/20/2021 11:00 | 3,540 | 23,832,873 | 2.96 | 0 |
| 8/20/2021 11:15 | 3,570 | 24,034,846 | 2.97 | 0 |
| 8/20/2021 11:30 | 3,570 | 24,034,847 | 2.97 | 0 |
| 8/20/2021 11:45 | 3,590 | 24,169,495 | 2.98 | 0 |
| 8/20/2021 12:00 | 3,610 | 24,304,144 | 2.99 | 0 |
| 8/20/2021 12:15 | 3,630 | 24,438,794 | 3.00 | 0 |
| 8/20/2021 12:30 | 3,650 | 24,573,442 | 3.01 | 0 |
| 8/20/2021 12:45 | 3,670 | 24,708,091 | 3.02 | 0 |
| 8/20/2021 13:00 | 3,670 | 24,708,092 | 3.02 | 0 |
| 8/20/2021 13:15 | 3,700 | 24,910,065 | 3.03 | 0 |
| 8/20/2021 13:30 | 3,720 | 25,044,714 | 3.04 | 0 |
| 8/20/2021 13:45 | 3,740 | 25,179,363 | 3.05 | 0 |
| 8/20/2021 14:00 | 3,760 | 25,314,012 | 3.06 | 0 |
| 8/20/2021 14:15 | 3,780 | 25,448,661 | 3.07 | 0 |
| 8/20/2021 14:30 | 3,820 | 25,717,959 | 3.09 | 0 |
| 8/20/2021 14:45 | 3,820 | 25,717,959 | 3.09 | 0 |
| 8/20/2021 15:00 | 3,870 | 26,054,581 | 3.11 | 0 |
| 8/20/2021 15:15 | 3,890 | 26,189,231 | 3.12 | 0 |
| 8/20/2021 15:30 | 3,910 | 26,323,879 | 3.13 | 0 |
| 8/20/2021 15:45 | 3,930 | 26,458,528 | 3.14 | 0 |
| 8/20/2021 16:00 | 3,950 | 26,593,178 | 3.15 | 0 |
| 8/20/2021 16:15 | 3,980 | 26,795,151 | 3.16 | 0 |
| 8/20/2021 16:30 | 4,000 | 26,929,800 | 3.17 | 0 |
| 8/20/2021 16:45 | 4,020 | 27,064,449 | 3.18 | 0 |
| 8/20/2021 17:00 | 4,070 | 27,401,071 | 3.20 | 0 |
| 8/20/2021 17:15 | 4,130 | 27,805,018 | 3.23 | 0 |
| 8/20/2021 17:30 | 4,130 | 27,805,019 | 3.23 | 0 |
| 8/20/2021 17:45 | 4,130 | 27,805,018 | 3.23 | 0 |
| 8/20/2021 18:00 | 4,160 | 28,006,992 | 3.24 | 0 |

**TABLE B10-3**
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate ($ft^3$/sec) | Flow Volume (gal) | Gage Height (ft) | Precipitation (in)[1] |
|---|---|---|---|---|
| 8/20/2021 18:15 | 4,160 | 28,006,992 | 3.24 | 0 |
| 8/20/2021 18:30 | 4,180 | 28,141,641 | 3.25 | 0 |
| 8/20/2021 18:45 | 4,200 | 28,276,290 | 3.26 | 0 |
| 8/20/2021 19:00 | 4,200 | 28,276,290 | 3.26 | 0 |
| 8/20/2021 19:15 | 4,220 | 28,410,939 | 3.27 | 0 |
| 8/20/2021 19:30 | 4,250 | 28,612,912 | 3.28 | 0 |
| 8/20/2021 19:45 | 4,270 | 28,747,562 | 3.29 | 0 |
| 8/20/2021 20:00 | 4,270 | 28,747,561 | 3.29 | 0 |
| 8/20/2021 20:15 | 4,290 | 28,882,210 | 3.30 | 0 |
| 8/20/2021 20:30 | 4,290 | 28,882,211 | 3.30 | 0 |
| 8/20/2021 20:45 | 4,320 | 29,084,184 | 3.31 | 0 |
| 8/20/2021 21:00 | 4,320 | 29,084,184 | 3.31 | 0 |
| 8/20/2021 21:15 | 4,340 | 29,218,833 | 3.32 | 0 |
| 8/20/2021 21:30 | 4,340 | 29,218,833 | 3.32 | 0 |
| 8/20/2021 21:45 | 4,340 | 29,218,833 | 3.32 | 0 |
| 8/20/2021 22:00 | 4,360 | 29,353,482 | 3.33 | 0 |
| 8/20/2021 22:15 | 4,340 | 29,218,833 | 3.32 | 0 |
| 8/20/2021 22:30 | 4,360 | 29,353,482 | 3.33 | 0 |
| 8/20/2021 22:45 | 4,390 | 29,555,456 | 3.34 | 0 |
| 8/20/2021 23:00 | 4,390 | 29,555,455 | 3.34 | 0 |
| 8/20/2021 23:15 | 4,410 | 29,690,104 | 3.35 | 0 |
| 8/20/2021 23:30 | 4,390 | 29,555,456 | 3.34 | 0 |
| 8/20/2021 23:45 | 4,410 | 29,690,105 | 3.35 | 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.

-- - not reported at USGS gauging station #02105500.

$ft^3$/sec - cubic feet per second
ft - feet
gal - gallons
in - inches
USGS - United States Geological Survey

**TABLE B10-4**
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate ($ft^3$/sec) | Flow Volume (gal) | Gage Height (ft) | Precipitation (in)[1] |
|---|---|---|---|---|
| 9/14/2021 0:00 | 1,180 | 7,944,291 | 1.56 | 0 |
| 9/14/2021 0:15 | 1,200 | 8,078,940 | 1.57 | 0 |
| 9/14/2021 0:30 | 1,180 | 7,944,291 | 1.56 | 0 |
| 9/14/2021 0:45 | 1,180 | 7,944,291 | 1.56 | 0 |
| 9/14/2021 1:00 | 1,180 | 7,944,291 | 1.56 | 0 |
| 9/14/2021 1:15 | 1,180 | 7,944,291 | 1.56 | 0 |
| 9/14/2021 1:30 | 1,180 | 7,944,291 | 1.56 | 0 |
| 9/14/2021 1:45 | 1,180 | 7,944,291 | 1.56 | 0 |
| 9/14/2021 2:00 | 1,170 | 7,876,966 | 1.55 | 0 |
| 9/14/2021 2:15 | 1,180 | 7,944,291 | 1.56 | 0 |
| 9/14/2021 2:30 | 1,170 | 7,876,967 | 1.55 | 0 |
| 9/14/2021 2:45 | 1,170 | 7,876,966 | 1.55 | 0 |
| 9/14/2021 3:00 | 1,170 | 7,876,966 | 1.55 | 0 |
| 9/14/2021 3:15 | 1,170 | 7,876,967 | 1.55 | 0 |
| 9/14/2021 3:30 | 1,170 | 7,876,966 | 1.55 | 0 |
| 9/14/2021 3:45 | 1,170 | 7,876,966 | 1.55 | 0 |
| 9/14/2021 4:00 | 1,160 | 7,809,642 | 1.54 | 0 |
| 9/14/2021 4:15 | 1,160 | 7,809,642 | 1.54 | 0 |
| 9/14/2021 4:30 | 1,160 | 7,809,642 | 1.54 | 0 |
| 9/14/2021 4:45 | 1,160 | 7,809,642 | 1.54 | 0 |
| 9/14/2021 5:00 | 1,160 | 7,809,642 | 1.54 | 0 |
| 9/14/2021 5:15 | 1,150 | 7,742,317 | 1.53 | 0 |
| 9/14/2021 5:30 | 1,150 | 7,742,318 | 1.53 | 0 |
| 9/14/2021 5:45 | 1,150 | 7,742,317 | 1.53 | 0 |
| 9/14/2021 6:00 | 1,150 | 7,742,317 | 1.53 | 0 |
| 9/14/2021 6:15 | 1,150 | 7,742,318 | 1.53 | 0 |
| 9/14/2021 6:30 | 1,140 | 7,674,993 | 1.52 | 0 |
| 9/14/2021 6:45 | 1,150 | 7,742,317 | 1.53 | 0 |
| 9/14/2021 7:00 | 1,140 | 7,674,993 | 1.52 | 0 |
| 9/14/2021 7:15 | 1,140 | 7,674,993 | 1.52 | 0 |
| 9/14/2021 7:30 | 1,140 | 7,674,993 | 1.52 | 0 |
| 9/14/2021 7:45 | 1,140 | 7,674,993 | 1.52 | 0 |
| 9/14/2021 8:00 | 1,140 | 7,674,993 | 1.52 | 0 |
| 9/14/2021 8:15 | 1,140 | 7,674,993 | 1.52 | 0 |
| 9/14/2021 8:30 | 1,140 | 7,674,993 | 1.52 | 0 |
| 9/14/2021 8:45 | 1,140 | 7,674,993 | 1.52 | 0 |
| 9/14/2021 9:00 | 1,140 | 7,674,993 | 1.52 | 0 |
| 9/14/2021 9:15 | 1,130 | 7,607,669 | 1.51 | 0 |
| 9/14/2021 9:30 | 1,130 | 7,607,668 | 1.51 | 0 |
| 9/14/2021 9:45 | 1,140 | 7,674,993 | 1.52 | 0 |
| 9/14/2021 10:00 | 1,140 | 7,674,993 | 1.52 | 0 |
| 9/14/2021 10:15 | 1,130 | 7,607,668 | 1.51 | 0 |
| 9/14/2021 10:30 | 1,130 | 7,607,668 | 1.51 | 0 |
| 9/14/2021 10:45 | 1,130 | 7,607,669 | 1.51 | 0 |
| 9/14/2021 11:00 | 1,130 | 7,607,668 | 1.51 | 0 |
| 9/14/2021 11:15 | 1,140 | 7,674,993 | 1.52 | 0 |
| 9/14/2021 11:30 | 1,140 | 7,674,993 | 1.52 | 0 |
| 9/14/2021 11:45 | 1,140 | 7,674,993 | 1.52 | 0 |
| 9/14/2021 12:00 | 1,140 | 7,674,993 | 1.52 | 0 |
| 9/14/2021 12:15 | 1,140 | 7,674,993 | 1.52 | 0 |
| 9/14/2021 12:30 | 1,130 | 7,607,668 | 1.51 | 0 |

**TABLE B10-4**
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate ($ft^3$/sec) | Flow Volume (gal) | Gage Height (ft) | Precipitation (in)[1] |
|---|---|---|---|---|
| 9/14/2021 12:45 | 1,140 | 7,674,993 | 1.52 | 0 |
| 9/14/2021 13:00 | 1,140 | 7,674,993 | 1.52 | 0 |
| 9/14/2021 13:15 | 1,130 | 7,607,668 | 1.51 | 0 |
| 9/14/2021 13:30 | 1,130 | 7,607,668 | 1.51 | 0 |
| 9/14/2021 13:45 | 1,130 | 7,607,669 | 1.51 | 0 |
| 9/14/2021 14:00 | 1,130 | 7,607,668 | 1.51 | 0 |
| 9/14/2021 14:15 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 14:30 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 14:45 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 15:00 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 15:15 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 15:30 | 1,110 | 7,473,019 | 1.49 | 0 |
| 9/14/2021 15:45 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 16:00 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 16:15 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 16:30 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 16:45 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 17:00 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 17:15 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 17:30 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 17:45 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 18:00 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 18:15 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 18:30 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 18:45 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 19:00 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 19:15 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 19:30 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 19:45 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 20:00 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 20:15 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 20:30 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 20:45 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 21:00 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 21:15 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 21:30 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 21:45 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 22:00 | 1,120 | 7,540,344 | 1.50 | 0 |
| 9/14/2021 22:15 | 1,110 | 7,473,019 | 1.49 | 0 |
| 9/14/2021 22:30 | 1,110 | 7,473,019 | 1.49 | 0 |
| 9/14/2021 22:45 | 1,110 | 7,473,020 | 1.49 | 0 |
| 9/14/2021 23:00 | 1,110 | 7,473,019 | 1.49 | 0 |
| 9/14/2021 23:15 | 1,100 | 7,405,695 | 1.48 | 0 |
| 9/14/2021 23:30 | 1,100 | 7,405,695 | 1.48 | 0 |
| 9/14/2021 23:45 | 1,100 | 7,405,695 | 1.48 | 0 |
| 9/15/2021 0:00 | 1,100 | 7,405,695 | 1.48 | 0 |
| 9/15/2021 0:15 | 1,100 | 7,405,695 | 1.48 | 0 |
| 9/15/2021 0:30 | 1,100 | 7,405,695 | 1.48 | 0 |
| 9/15/2021 0:45 | 1,090 | 7,338,370 | 1.47 | 0 |
| 9/15/2021 1:00 | 1,100 | 7,405,695 | 1.48 | 0 |
| 9/15/2021 1:15 | 1,090 | 7,338,370 | 1.47 | 0 |

**TABLE B10-4**
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate ($ft^3$/sec) | Flow Volume (gal) | Gage Height (ft) | Precipitation (in)[1] |
|---|---|---|---|---|
| 9/15/2021 1:30 | 1,090 | 7,338,370 | 1.47 | 0 |
| 9/15/2021 1:45 | 1,090 | 7,338,371 | 1.47 | 0 |
| 9/15/2021 2:00 | 1,090 | 7,338,370 | 1.47 | 0 |
| 9/15/2021 2:15 | 1,090 | 7,338,370 | 1.47 | 0 |
| 9/15/2021 2:30 | 1,090 | 7,338,371 | 1.47 | 0 |
| 9/15/2021 2:45 | 1,090 | 7,338,370 | 1.47 | 0 |
| 9/15/2021 3:00 | 1,090 | 7,338,370 | 1.47 | 0 |
| 9/15/2021 3:15 | 1,080 | 7,271,046 | 1.46 | 0 |
| 9/15/2021 3:30 | 1,080 | 7,271,046 | 1.46 | 0 |
| 9/15/2021 3:45 | 1,080 | 7,271,046 | 1.46 | 0 |
| 9/15/2021 4:00 | 1,080 | 7,271,046 | 1.46 | 0 |
| 9/15/2021 4:15 | 1,080 | 7,271,046 | 1.46 | 0 |
| 9/15/2021 4:30 | 1,080 | 7,271,046 | 1.46 | 0 |
| 9/15/2021 4:45 | 1,080 | 7,271,046 | 1.46 | 0 |
| 9/15/2021 5:00 | 1,080 | 7,271,046 | 1.46 | 0 |
| 9/15/2021 5:15 | 1,070 | 7,203,721 | 1.45 | 0 |
| 9/15/2021 5:30 | 1,080 | 7,271,046 | 1.46 | 0 |
| 9/15/2021 5:45 | 1,080 | 7,271,046 | 1.46 | 0 |
| 9/15/2021 6:00 | 1,070 | 7,203,721 | 1.45 | 0 |
| 9/15/2021 6:15 | 1,070 | 7,203,722 | 1.45 | 0 |
| 9/15/2021 6:30 | 1,070 | 7,203,721 | 1.45 | 0 |
| 9/15/2021 6:45 | 1,070 | 7,203,721 | 1.45 | 0 |
| 9/15/2021 7:00 | 1,070 | 7,203,722 | 1.45 | 0 |
| 9/15/2021 7:15 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 7:30 | 1,070 | 7,203,721 | 1.45 | 0 |
| 9/15/2021 7:45 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 8:00 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 8:15 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 8:30 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 8:45 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 9:00 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 9:15 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 9:30 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 9:45 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 10:00 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 10:15 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 10:30 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 10:45 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 11:00 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 11:15 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 11:30 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 11:45 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 12:00 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 12:15 | 1,040 | 7,001,748 | 1.43 | 0 |
| 9/15/2021 12:30 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 12:45 | 1,040 | 7,001,748 | 1.43 | 0 |
| 9/15/2021 13:00 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 13:15 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 13:30 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 13:45 | 1,040 | 7,001,748 | 1.43 | 0 |
| 9/15/2021 14:00 | 1,040 | 7,001,748 | 1.43 | 0 |

**TABLE B10-4**
**FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Date and Time | Flow Rate ($ft^3$/sec) | Flow Volume (gal) | Gage Height (ft) | Precipitation (in)[1] |
|---|---|---|---|---|
| 9/15/2021 14:15 | 1,040 | 7,001,748 | 1.43 | 0 |
| 9/15/2021 14:30 | 1,040 | 7,001,748 | 1.43 | 0 |
| 9/15/2021 14:45 | 1,040 | 7,001,748 | 1.43 | 0 |
| 9/15/2021 15:00 | 1,040 | 7,001,748 | 1.43 | 0 |
| 9/15/2021 15:15 | 1,040 | 7,001,748 | 1.43 | 0 |
| 9/15/2021 15:30 | 1,040 | 7,001,748 | 1.43 | 0 |
| 9/15/2021 15:45 | 1,040 | 7,001,748 | 1.43 | 0 |
| 9/15/2021 16:00 | 1,030 | 6,934,424 | 1.42 | 0 |
| 9/15/2021 16:15 | 1,030 | 6,934,423 | 1.42 | 0 |
| 9/15/2021 16:30 | 1,030 | 6,934,423 | 1.42 | 0 |
| 9/15/2021 16:45 | 1,030 | 6,934,424 | 1.42 | 0 |
| 9/15/2021 17:00 | 1,030 | 6,934,423 | 1.42 | 0 |
| 9/15/2021 17:15 | 1,020 | 6,867,099 | 1.41 | 0 |
| 9/15/2021 17:30 | 1,020 | 6,867,099 | 1.41 | 0 |
| 9/15/2021 17:45 | 1,020 | 6,867,099 | 1.41 | 0 |
| 9/15/2021 18:00 | 1,020 | 6,867,099 | 1.41 | 0 |
| 9/15/2021 18:15 | 1,030 | 6,934,424 | 1.42 | 0 |
| 9/15/2021 18:30 | 1,040 | 7,001,748 | 1.43 | 0 |
| 9/15/2021 18:45 | 1,040 | 7,001,748 | 1.43 | 0 |
| 9/15/2021 19:00 | 1,040 | 7,001,748 | 1.43 | 0 |
| 9/15/2021 19:15 | 1,040 | 7,001,748 | 1.43 | 0 |
| 9/15/2021 19:30 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 19:45 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 20:00 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 20:15 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 20:30 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 20:45 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 21:00 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 21:15 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 21:30 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 21:45 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 22:00 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 22:15 | 1,060 | 7,136,397 | 1.44 | 0 |
| 9/15/2021 22:30 | 1,040 | 7,001,748 | 1.43 | 0 |
| 9/15/2021 22:45 | 1,040 | 7,001,748 | 1.43 | 0 |
| 9/15/2021 23:00 | 1,040 | 7,001,748 | 1.43 | 0 |
| 9/15/2021 23:15 | 1,040 | 7,001,748 | 1.43 | 0 |
| 9/15/2021 23:30 | 1,040 | 7,001,748 | 1.43 | 0 |
| 9/15/2021 23:45 | 1,040 | 7,001,748 | 1.43 | 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.

$ft^3$/sec - cubic feet per second
ft - feet
gal - gallons
in - inches
USGS - United States Geological Survey

**TABLE B11**
**FLOW DATA FOR LOCK #1 NR KELLY, NC - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Flow Rate ($ft^3$/sec) | Flow Volume (gal) |
|---|---|---|
| 7/30/2021 0:00 | 3,360 | 22,621,032 |
| 7/30/2021 0:15 | 3,340 | 22,486,383 |
| 7/30/2021 0:30 | 3,340 | 22,486,383 |
| 7/30/2021 0:45 | 3,340 | 22,486,383 |
| 7/30/2021 1:00 | 3,340 | 22,486,383 |
| 7/30/2021 1:15 | 3,310 | 22,284,409 |
| 7/30/2021 1:30 | 3,310 | 22,284,409 |
| 7/30/2021 1:45 | 3,310 | 22,284,410 |
| 7/30/2021 2:00 | 3,290 | 22,149,760 |
| 7/30/2021 2:15 | 3,290 | 22,149,760 |
| 7/30/2021 2:30 | 3,270 | 22,015,112 |
| 7/30/2021 2:45 | 3,270 | 22,015,111 |
| 7/30/2021 3:00 | 3,270 | 22,015,111 |
| 7/30/2021 3:15 | 3,250 | 21,880,463 |
| 7/30/2021 3:30 | 3,250 | 21,880,462 |
| 7/30/2021 3:45 | 3,250 | 21,880,462 |
| 7/30/2021 4:00 | 3,250 | 21,880,463 |
| 7/30/2021 4:15 | 3,230 | 21,745,813 |
| 7/30/2021 4:30 | 3,230 | 21,745,813 |
| 7/30/2021 4:45 | 3,230 | 21,745,814 |
| 7/30/2021 5:00 | 3,210 | 21,611,164 |
| 7/30/2021 5:15 | 3,210 | 21,611,164 |
| 7/30/2021 5:30 | 3,190 | 21,476,516 |
| 7/30/2021 5:45 | 3,190 | 21,476,515 |
| 7/30/2021 6:00 | 3,170 | 21,341,866 |
| 7/30/2021 6:15 | 3,170 | 21,341,867 |
| 7/30/2021 6:30 | 3,170 | 21,341,866 |
| 7/30/2021 6:45 | 3,150 | 21,207,217 |
| 7/30/2021 7:00 | 3,150 | 21,207,218 |
| 7/30/2021 7:15 | 3,150 | 21,207,217 |
| 7/30/2021 7:30 | 3,150 | 21,207,217 |
| 7/30/2021 7:45 | 3,150 | 21,207,218 |
| 7/30/2021 8:00 | 3,130 | 21,072,568 |
| 7/30/2021 8:15 | 3,110 | 20,937,919 |
| 7/30/2021 8:30 | 3,110 | 20,937,920 |
| 7/30/2021 8:45 | 3,110 | 20,937,919 |
| 7/30/2021 9:00 | 3,090 | 20,803,270 |
| 7/30/2021 9:15 | 3,110 | 20,937,920 |
| 7/30/2021 9:30 | 3,110 | 20,937,919 |
| 7/30/2021 9:45 | 3,110 | 20,937,919 |
| 7/30/2021 10:00 | 3,090 | 20,803,271 |
| 7/30/2021 10:15 | 3,090 | 20,803,270 |
| 7/30/2021 10:30 | 3,090 | 20,803,270 |
| 7/30/2021 10:45 | 3,090 | 20,803,271 |
| 7/30/2021 11:00 | 3,070 | 20,668,621 |
| 7/30/2021 11:15 | 3,070 | 20,668,621 |
| 7/30/2021 11:30 | 3,070 | 20,668,622 |
| 7/30/2021 11:45 | 3,050 | 20,533,972 |
| 7/30/2021 12:00 | 3,050 | 20,533,972 |
| 7/30/2021 12:15 | 3,050 | 20,533,973 |
| 7/30/2021 12:30 | 3,050 | 20,533,972 |
| 7/30/2021 12:45 | 3,030 | 20,399,323 |
| 7/30/2021 13:00 | 3,050 | 20,533,973 |

**TABLE B11**
**FLOW DATA FOR LOCK #1 NR KELLY, NC - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Flow Rate ($ft^3$/sec) | Flow Volume (gal) |
|---|---|---|
| 7/30/2021 13:15 | 3,050 | 20,533,972 |
| 7/30/2021 13:30 | 3,030 | 20,399,323 |
| 7/30/2021 13:45 | 3,050 | 20,533,973 |
| 7/30/2021 14:00 | 3,030 | 20,399,323 |
| 7/30/2021 14:15 | 3,030 | 20,399,323 |
| 7/30/2021 14:30 | 3,010 | 20,264,675 |
| 7/30/2021 14:45 | 3,010 | 20,264,674 |
| 7/30/2021 15:00 | 3,010 | 20,264,674 |
| 7/30/2021 15:15 | 3,010 | 20,264,675 |
| 7/30/2021 15:30 | 3,010 | 20,264,674 |
| 7/30/2021 15:45 | 2,970 | 19,995,376 |
| 7/30/2021 16:00 | 2,990 | 20,130,026 |
| 7/30/2021 16:15 | 2,970 | 19,995,376 |
| 7/30/2021 16:30 | 2,970 | 19,995,376 |
| 7/30/2021 16:45 | 2,970 | 19,995,377 |
| 7/30/2021 17:00 | 2,950 | 19,860,727 |
| 7/30/2021 17:15 | 2,950 | 19,860,727 |
| 7/30/2021 17:30 | 2,950 | 19,860,728 |
| 7/30/2021 17:45 | 2,930 | 19,726,078 |
| 7/30/2021 18:00 | 2,930 | 19,726,078 |
| 7/30/2021 18:15 | 2,930 | 19,726,079 |
| 7/30/2021 18:30 | 2,910 | 19,591,429 |
| 7/30/2021 18:45 | 2,910 | 19,591,429 |
| 7/30/2021 19:00 | 2,890 | 19,456,781 |
| 7/30/2021 19:15 | 2,890 | 19,456,780 |
| 7/30/2021 19:30 | 2,890 | 19,456,780 |
| 7/30/2021 19:45 | 2,870 | 19,322,132 |
| 7/30/2021 20:00 | 2,870 | 19,322,131 |
| 7/30/2021 20:15 | 2,870 | 19,322,131 |
| 7/30/2021 20:30 | 2,850 | 19,187,483 |
| 7/30/2021 20:45 | 2,850 | 19,187,482 |
| 7/30/2021 21:00 | 2,850 | 19,187,482 |
| 7/30/2021 21:15 | 2,850 | 19,187,483 |
| 7/30/2021 21:30 | 2,850 | 19,187,482 |
| 7/30/2021 21:45 | 2,830 | 19,052,833 |
| 7/30/2021 22:00 | 2,830 | 19,052,834 |
| 7/30/2021 22:15 | 2,830 | 19,052,833 |
| 7/30/2021 22:30 | 2,810 | 18,918,184 |
| 7/30/2021 22:45 | 2,810 | 18,918,185 |
| 7/30/2021 23:00 | 2,810 | 18,918,184 |
| 7/30/2021 23:15 | 2,810 | 18,918,184 |
| 7/30/2021 23:30 | 2,810 | 18,918,185 |

***Notes***

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

$ft^3$/sec - cubic feet per second

ft - feet

gal - gallons

USGS - United States Geological Survey

**TABLE B12-1**
**FLOW DATA FOR LOCK #1 NR KELLY, NC - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Flow Rate ($ft^3$/sec) | Flow Volume (gal) |
|---|---|---|
| 8/1/2021 0:00 | 2,280 | 15,349,986 |
| 8/1/2021 0:15 | 2,270 | 15,282,662 |
| 8/1/2021 0:30 | 2,280 | 15,349,986 |
| 8/1/2021 0:45 | 2,280 | 15,349,986 |
| 8/1/2021 1:00 | 2,280 | 15,349,986 |
| 8/1/2021 1:15 | 2,280 | 15,349,986 |
| 8/1/2021 1:30 | 2,270 | 15,282,661 |
| 8/1/2021 1:45 | 2,250 | 15,148,013 |
| 8/1/2021 2:00 | 2,270 | 15,282,661 |
| 8/1/2021 2:15 | 2,270 | 15,282,661 |
| 8/1/2021 2:30 | 2,250 | 15,148,013 |
| 8/1/2021 2:45 | 2,250 | 15,148,012 |
| 8/1/2021 3:00 | 2,250 | 15,148,012 |
| 8/1/2021 3:15 | 2,230 | 15,013,364 |
| 8/1/2021 3:30 | 2,230 | 15,013,363 |
| 8/1/2021 3:45 | 2,230 | 15,013,363 |
| 8/1/2021 4:00 | 2,210 | 14,878,715 |
| 8/1/2021 4:15 | 2,210 | 14,878,714 |
| 8/1/2021 4:30 | 2,210 | 14,878,714 |
| 8/1/2021 4:45 | 2,200 | 14,811,390 |
| 8/1/2021 5:00 | 2,200 | 14,811,390 |
| 8/1/2021 5:15 | 2,200 | 14,811,390 |
| 8/1/2021 5:30 | 2,200 | 14,811,390 |
| 8/1/2021 5:45 | 2,200 | 14,811,390 |
| 8/1/2021 6:00 | 2,200 | 14,811,390 |
| 8/1/2021 6:15 | 2,180 | 14,676,741 |
| 8/1/2021 6:30 | 2,180 | 14,676,741 |
| 8/1/2021 6:45 | 2,180 | 14,676,741 |
| 8/1/2021 7:00 | 2,180 | 14,676,741 |
| 8/1/2021 7:15 | 2,160 | 14,542,092 |
| 8/1/2021 7:30 | 2,160 | 14,542,092 |
| 8/1/2021 7:45 | 2,150 | 14,474,768 |
| 8/1/2021 8:00 | 2,150 | 14,474,767 |
| 8/1/2021 8:15 | 2,150 | 14,474,767 |
| 8/1/2021 8:30 | 2,150 | 14,474,768 |
| 8/1/2021 8:45 | 2,130 | 14,340,118 |
| 8/1/2021 9:00 | 2,120 | 14,272,794 |
| 8/1/2021 9:15 | 2,130 | 14,340,119 |
| 8/1/2021 9:30 | 2,130 | 14,340,118 |
| 8/1/2021 9:45 | 2,120 | 14,272,794 |
| 8/1/2021 10:00 | 2,120 | 14,272,794 |
| 8/1/2021 10:15 | 2,120 | 14,272,794 |
| 8/1/2021 10:30 | 2,130 | 14,340,118 |
| 8/1/2021 10:45 | 2,120 | 14,272,794 |
| 8/1/2021 11:00 | 2,120 | 14,272,794 |
| 8/1/2021 11:15 | 2,120 | 14,272,794 |
| 8/1/2021 11:30 | 2,120 | 14,272,794 |
| 8/1/2021 11:45 | 2,100 | 14,138,145 |
| 8/1/2021 12:00 | 2,100 | 14,138,145 |
| 8/1/2021 12:15 | 2,100 | 14,138,145 |
| 8/1/2021 12:30 | 2,100 | 14,138,145 |
| 8/1/2021 12:45 | 2,100 | 14,138,145 |
| 8/1/2021 13:00 | 2,100 | 14,138,145 |
| 8/1/2021 13:15 | 2,120 | 14,272,794 |
| 8/1/2021 13:30 | 2,100 | 14,138,145 |
| 8/1/2021 13:45 | 2,100 | 14,138,145 |
| 8/1/2021 14:00 | 2,100 | 14,138,145 |
| 8/1/2021 14:15 | 2,080 | 14,003,496 |
| 8/1/2021 14:30 | 2,070 | 13,936,172 |

**TABLE B12-1**
**FLOW DATA FOR LOCK #1 NR KELLY, NC - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Flow Rate ($ft^3$/sec) | Flow Volume (gal) |
|---|---|---|
| 8/1/2021 14:45 | 2,080 | 14,003,496 |
| 8/1/2021 15:00 | 2,070 | 13,936,171 |
| 8/1/2021 15:15 | 2,070 | 13,936,172 |
| 8/1/2021 15:30 | 2,070 | 13,936,171 |
| 8/1/2021 15:45 | 2,080 | 14,003,496 |
| 8/1/2021 16:00 | 2,070 | 13,936,172 |
| 8/1/2021 16:15 | 2,080 | 14,003,496 |
| 8/1/2021 16:30 | 2,050 | 13,801,522 |
| 8/1/2021 16:45 | 2,070 | 13,936,172 |
| 8/1/2021 17:00 | 2,050 | 13,801,522 |
| 8/1/2021 17:15 | 2,050 | 13,801,522 |
| 8/1/2021 17:30 | 2,050 | 13,801,523 |
| 8/1/2021 17:45 | 2,020 | 13,599,549 |
| 8/1/2021 18:00 | 2,130 | 14,340,118 |
| 8/1/2021 18:15 | 2,080 | 14,003,496 |
| 8/1/2021 18:30 | 2,050 | 13,801,522 |
| 8/1/2021 22:30 | 1,980 | 13,330,251 |
| 8/2/2021 2:30 | 1,920 | 12,926,304 |
| 8/2/2021 6:30 | 1,850 | 12,455,032 |
| 8/2/2021 10:30 | 1,800 | 12,118,410 |
| 8/2/2021 14:30 | 1,750 | 11,781,788 |
| 8/2/2021 18:30 | 1,700 | 11,445,165 |
| 8/2/2021 22:30 | 1,660 | 11,175,867 |
| 8/3/2021 2:30 | 1,640 | 11,041,218 |
| 8/3/2021 6:30 | 1,630 | 10,973,893 |
| 8/3/2021 10:30 | 1,620 | 10,906,569 |
| 8/3/2021 14:30 | 1,600 | 10,771,920 |
| 8/3/2021 18:30 | 1,580 | 10,637,271 |
| 8/3/2021 22:30 | 1,560 | 10,502,622 |
| 8/4/2021 2:30 | 1,550 | 10,435,298 |
| 8/4/2021 6:30 | 1,550 | 10,435,297 |
| 8/4/2021 10:30 | 1,530 | 10,300,648 |
| 8/4/2021 14:30 | 1,520 | 10,233,324 |
| 8/4/2021 18:30 | 1,510 | 10,165,999 |
| 8/4/2021 22:30 | 1,500 | 10,098,675 |
| 8/5/2021 2:30 | 1,480 | 9,964,026 |
| 8/5/2021 6:30 | 1,480 | 9,964,026 |
| 8/5/2021 10:30 | 1,470 | 9,896,701 |
| 8/5/2021 14:30 | 1,470 | 9,896,702 |
| 8/5/2021 18:30 | 1,460 | 9,829,377 |
| 8/5/2021 22:30 | 1,460 | 9,829,377 |
| 8/6/2021 2:30 | 1,460 | 9,829,377 |
| 8/6/2021 6:30 | 1,460 | 9,829,377 |
| 8/6/2021 10:30 | 1,460 | 9,829,377 |
| 8/6/2021 14:30 | 1,460 | 9,829,377 |
| 8/6/2021 18:30 | 1,520 | 10,233,324 |
| 8/6/2021 22:30 | 1,570 | 10,569,946 |
| 8/7/2021 2:30 | 1,620 | 10,906,569 |
| 8/7/2021 6:30 | 1,630 | 10,973,893 |
| 8/7/2021 10:30 | 1,660 | 11,175,867 |
| 8/7/2021 14:30 | 1,670 | 11,243,192 |
| 8/7/2021 18:30 | 1,680 | 11,310,516 |
| 8/7/2021 22:30 | 1,680 | 11,310,516 |
| 8/8/2021 2:30 | 1,680 | 11,310,516 |
| 8/8/2021 6:30 | 1,670 | 11,243,191 |
| 8/8/2021 10:30 | 1,660 | 11,175,867 |
| 8/8/2021 14:30 | 1,650 | 11,108,543 |
| 8/8/2021 18:30 | 1,630 | 10,973,893 |
| 8/8/2021 22:30 | 1,620 | 10,906,569 |

**TABLE B12-1**
**FLOW DATA FOR LOCK #1 NR KELLY, NC - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Flow Rate ($ft^3$/sec) | Flow Volume (gal) |
|---|---|---|
| 8/9/2021 2:30 | 1,610 | 10,839,245 |
| 8/9/2021 6:30 | 1,590 | 10,704,595 |
| 8/9/2021 10:30 | 1,710 | 11,512,489 |
| 8/9/2021 14:30 | 1,830 | 12,320,384 |
| 8/9/2021 18:30 | 1,860 | 12,522,357 |
| 8/9/2021 22:30 | 1,880 | 12,657,006 |
| 8/10/2021 2:30 | 1,900 | 12,791,655 |
| 8/10/2021 6:30 | 1,930 | 12,993,628 |
| 8/10/2021 10:30 | 1,940 | 13,060,953 |
| 8/10/2021 14:30 | 1,960 | 13,195,602 |
| 8/10/2021 18:30 | 1,990 | 13,397,575 |
| 8/10/2021 22:30 | 2,020 | 13,599,549 |
| 8/11/2021 2:30 | 2,040 | 13,734,198 |
| 8/11/2021 6:30 | 2,060 | 13,868,847 |
| 8/11/2021 10:30 | 2,060 | 13,868,847 |
| 8/11/2021 14:30 | 2,030 | 13,666,874 |
| 8/11/2021 18:30 | 2,010 | 13,532,224 |
| 8/11/2021 22:30 | 1,980 | 13,330,251 |
| 8/12/2021 2:30 | 1,920 | 12,926,304 |
| 8/12/2021 6:30 | 1,880 | 12,657,006 |
| 8/12/2021 10:30 | 1,850 | 12,455,032 |
| 8/12/2021 14:30 | 1,810 | 12,185,735 |
| 8/12/2021 18:30 | 1,780 | 11,983,761 |
| 8/12/2021 22:30 | 1,760 | 11,849,112 |
| 8/13/2021 2:30 | 1,750 | 11,781,788 |
| 8/13/2021 6:30 | 1,730 | 11,647,138 |
| 8/13/2021 10:30 | 1,720 | 11,579,814 |
| 8/13/2021 14:30 | 1,700 | 11,445,165 |
| 8/13/2021 18:30 | 1,670 | 11,243,191 |
| 8/13/2021 22:30 | 1,650 | 11,108,542 |
| 8/14/2021 2:30 | 1,630 | 10,973,894 |
| 8/14/2021 6:30 | 1,610 | 10,839,244 |
| 8/14/2021 10:30 | 1,580 | 10,637,271 |
| 8/14/2021 14:30 | 1,550 | 10,435,298 |
| 8/14/2021 18:30 | 1,530 | 10,300,648 |
| 8/14/2021 22:30 | 1,500 | 10,098,675 |
| 8/15/2021 2:30 | 1,460 | 9,829,377 |
| 8/15/2021 6:30 | 1,440 | 9,694,728 |
| 8/15/2021 10:30 | 1,430 | 9,627,403 |
| 8/15/2021 14:30 | 1,400 | 9,425,430 |
| 8/15/2021 18:30 | 1,380 | 9,290,781 |
| 8/15/2021 22:30 | 1,380 | 9,290,781 |
| 8/16/2021 2:30 | 1,420 | 9,560,079 |
| 8/16/2021 6:30 | 1,490 | 10,031,350 |
| 8/16/2021 10:30 | 1,510 | 10,165,999 |
| 8/16/2021 14:30 | 1,540 | 10,367,973 |
| 8/16/2021 18:30 | 1,610 | 10,839,244 |
| 8/16/2021 22:30 | 1,630 | 10,973,893 |
| 8/17/2021 2:30 | 1,650 | 11,108,543 |
| 8/17/2021 6:30 | 1,670 | 11,243,191 |
| 8/17/2021 10:30 | 1,690 | 11,377,840 |
| 8/17/2021 14:30 | 1,710 | 11,512,490 |
| 8/17/2021 18:30 | 1,720 | 11,579,814 |
| 8/17/2021 22:30 | 1,740 | 11,714,463 |
| 8/18/2021 2:30 | 1,770 | 11,916,437 |
| 8/18/2021 6:30 | 1,820 | 12,253,059 |
| 8/18/2021 10:30 | 1,870 | 12,589,681 |
| 8/18/2021 14:30 | 1,950 | 13,128,278 |
| 8/18/2021 18:30 | 2,090 | 14,070,820 |

**TABLE B12-1**
**FLOW DATA FOR LOCK #1 NR KELLY, NC - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Flow Rate ($ft^3$/sec) | Flow Volume (gal) |
|---|---|---|
| 8/18/2021 22:30 | 2,180 | 14,676,741 |
| 8/19/2021 2:30 | 2,280 | 15,349,986 |
| 8/19/2021 6:30 | 2,410 | 16,225,204 |
| 8/19/2021 10:30 | 2,620 | 17,639,019 |
| 8/19/2021 14:30 | 2,790 | 18,783,536 |
| 8/19/2021 18:30 | 3,100 | 20,870,595 |
| 8/19/2021 22:30 | 3,290 | 22,149,760 |
| 8/20/2021 2:30 | 3,450 | 23,226,953 |
| 8/20/2021 6:30 | 3,640 | 24,506,118 |
| 8/20/2021 10:30 | 4,430 | 29,824,753 |
| 8/20/2021 14:30 | 4,630 | 31,171,244 |
| 8/20/2021 18:30 | 4,990 | 33,594,925 |
| 8/20/2021 22:30 | 6,260 | 42,145,137 |
| 8/21/2021 2:30 | 6,350 | 42,751,058 |
| 8/21/2021 6:30 | 6,440 | 43,356,978 |
| 8/21/2021 10:30 | 7,200 | 48,473,640 |
| 8/21/2021 14:30 | 7,280 | 49,012,236 |
| 8/21/2021 18:30 | 7,310 | 49,214,209 |
| 8/21/2021 22:30 | 7,320 | 49,281,534 |
| 8/22/2021 2:30 | 7,320 | 49,281,534 |
| 8/22/2021 6:30 | 7,320 | 49,281,534 |
| 8/22/2021 10:30 | 7,140 | 48,069,693 |
| 8/22/2021 14:30 | 6,930 | 46,655,879 |
| 8/22/2021 18:30 | 6,610 | 44,501,494 |
| 8/22/2021 22:30 | 6,330 | 42,616,408 |
| 8/23/2021 2:30 | 6,020 | 40,529,349 |
| 8/23/2021 6:30 | 5,780 | 38,913,561 |
| 8/23/2021 10:30 | 5,580 | 37,567,071 |
| 8/23/2021 14:30 | 5,260 | 35,412,687 |
| 8/23/2021 18:30 | 5,090 | 34,268,170 |
| 8/23/2021 22:30 | 4,930 | 33,190,978 |
| 8/24/2021 2:30 | 4,780 | 32,181,111 |
| 8/24/2021 6:30 | 4,650 | 31,305,892 |
| 8/24/2021 10:30 | 4,490 | 30,228,700 |
| 8/24/2021 14:30 | 4,340 | 29,218,833 |
| 8/24/2021 18:30 | 4,200 | 28,276,290 |
| 8/24/2021 22:30 | 4,090 | 27,535,720 |
| 8/25/2021 2:30 | 3,970 | 26,727,827 |
| 8/25/2021 6:30 | 3,860 | 25,987,257 |
| 8/25/2021 10:30 | 3,720 | 25,044,714 |
| 8/25/2021 14:30 | 3,570 | 24,034,847 |
| 8/25/2021 18:30 | 3,450 | 23,226,952 |
| 8/25/2021 22:30 | 3,330 | 22,419,058 |
| 8/26/2021 2:30 | 3,230 | 21,745,814 |
| 8/26/2021 6:30 | 3,140 | 21,139,893 |
| 8/26/2021 10:30 | 3,040 | 20,466,648 |
| 8/26/2021 14:30 | 2,940 | 19,793,403 |
| 8/26/2021 18:30 | 2,840 | 19,120,158 |
| 8/26/2021 22:30 | 2,770 | 18,648,886 |
| 8/27/2021 2:30 | 2,710 | 18,244,940 |
| 8/27/2021 6:30 | 2,630 | 17,706,343 |
| 8/27/2021 10:30 | 2,550 | 17,167,747 |
| 8/27/2021 14:30 | 2,480 | 16,696,476 |
| 8/27/2021 18:30 | 2,400 | 16,157,880 |
| 8/27/2021 22:30 | 2,330 | 15,686,608 |
| 8/28/2021 2:30 | 2,270 | 15,282,662 |
| 8/28/2021 6:30 | 2,210 | 14,878,714 |
| 8/28/2021 10:30 | 2,140 | 14,407,443 |
| 8/28/2021 14:30 | 2,090 | 14,070,821 |

**TABLE B12-1**
**FLOW DATA FOR LOCK #1 NR KELLY, NC - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Flow Rate ($ft^3$/sec) | Flow Volume (gal) |
|---|---|---|
| 8/28/2021 18:30 | 2,040 | 13,734,198 |
| 8/28/2021 22:30 | 1,990 | 13,397,575 |
| 8/29/2021 2:30 | 1,930 | 12,993,629 |
| 8/29/2021 6:30 | 1,880 | 12,657,006 |
| 8/29/2021 10:30 | 1,830 | 12,320,383 |
| 8/29/2021 14:30 | 1,780 | 11,983,761 |
| 8/29/2021 18:30 | 1,720 | 11,579,814 |
| 8/29/2021 22:30 | 1,660 | 11,175,867 |
| 8/30/2021 2:30 | 1,600 | 10,771,920 |
| 8/30/2021 6:30 | 1,560 | 10,502,622 |
| 8/30/2021 10:30 | 1,520 | 10,233,324 |
| 8/30/2021 14:30 | 1,490 | 10,031,351 |
| 8/30/2021 18:30 | 1,450 | 9,762,052 |
| 8/30/2021 22:30 | 1,420 | 9,560,079 |
| 8/31/2021 2:30 | 1,370 | 9,223,457 |
| 8/31/2021 6:30 | 1,330 | 8,954,158 |
| 8/31/2021 10:30 | 1,300 | 8,752,185 |
| 8/31/2021 14:30 | 1,260 | 8,482,887 |
| 8/31/2021 18:30 | 1,230 | 8,280,913 |
| 8/31/2021 22:30 | 1,210 | 8,146,264 |

***Notes***

Measurements are recorded from the USGS flow gauging station at Lock #1 near Kelly, ID 02105769 (USGS, 2021). After August 1, 2021, discharge computation at this gauging station was discontinued due to construction on the dam. The reported flow values are estimated by USGS.

$ft^3$/sec - cubic feet per second

ft - feet

gal - gallons

USGS - United States Geological Survey

**TABLE B12-2**
**FLOW DATA FOR LOCK #1 NR KELLY, NC - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Flow Rate ($ft^3$/sec) | Flow Volume (gal) |
|---|---|---|
| 9/1/2021 2:30 | 1,180 | 7,944,291 |
| 9/1/2021 6:30 | 1,160 | 7,809,642 |
| 9/1/2021 10:30 | 1,150 | 7,742,317 |
| 9/1/2021 14:30 | 1,140 | 7,674,993 |
| 9/1/2021 18:30 | 1,140 | 7,674,993 |
| 9/1/2021 22:30 | 1,120 | 7,540,344 |
| 9/2/2021 2:30 | 1120 | 7,540,344 |
| 9/2/2021 6:30 | 1110 | 7,473,019 |
| 9/2/2021 10:30 | 1100 | 7,405,695 |
| 9/2/2021 14:30 | 1090 | 7,338,371 |
| 9/2/2021 18:30 | 1090 | 7,338,370 |
| 9/2/2021 22:30 | 1080 | 7,271,046 |
| 9/3/2021 2:30 | 1080 | 7,271,046 |
| 9/3/2021 6:30 | 1080 | 7,271,046 |
| 9/3/2021 10:30 | 1080 | 7,271,046 |
| 9/3/2021 14:30 | 1070 | 7,203,722 |
| 9/3/2021 18:30 | 1070 | 7,203,721 |
| 9/3/2021 22:30 | 1070 | 7,203,721 |
| 9/4/2021 2:30 | 1070 | 7,203,722 |
| 9/4/2021 6:30 | 1060 | 7,136,397 |
| 9/4/2021 10:30 | 1060 | 7,136,397 |
| 9/4/2021 14:30 | 1060 | 7,136,397 |
| 9/4/2021 18:30 | 1070 | 7,203,721 |
| 9/4/2021 22:30 | 1070 | 7,203,721 |
| 9/5/2021 2:30 | 1070 | 7,203,722 |
| 9/5/2021 6:30 | 1070 | 7,203,721 |
| 9/5/2021 10:30 | 1060 | 7,136,397 |
| 9/5/2021 14:30 | 1060 | 7,136,397 |
| 9/5/2021 18:30 | 1060 | 7,136,397 |
| 9/5/2021 22:30 | 1060 | 7,136,397 |
| 9/6/2021 2:30 | 1060 | 7,136,397 |
| 9/6/2021 6:30 | 1060 | 7,136,397 |
| 9/6/2021 10:30 | 1060 | 7,136,397 |
| 9/6/2021 14:30 | 1060 | 7,136,397 |
| 9/6/2021 18:30 | 1060 | 7,136,397 |
| 9/6/2021 22:30 | 1060 | 7,136,397 |
| 9/7/2021 2:30 | 1060 | 7,136,397 |
| 9/7/2021 6:30 | 1060 | 7,136,397 |
| 9/7/2021 10:30 | 1050 | 7,069,072 |
| 9/7/2021 14:30 | 1050 | 7,069,073 |
| 9/7/2021 18:30 | 1050 | 7,069,072 |
| 9/7/2021 22:30 | 1050 | 7,069,072 |
| 9/8/2021 2:30 | 1050 | 7,069,073 |
| 9/8/2021 6:30 | 1060 | 7,136,397 |
| 9/8/2021 10:30 | 1070 | 7,203,721 |
| 9/8/2021 14:30 | 1070 | 7,203,722 |
| 9/8/2021 18:30 | 1080 | 7,271,046 |
| 9/8/2021 22:30 | 1090 | 7,338,370 |
| 9/9/2021 2:30 | 1100 | 7,405,695 |
| 9/9/2021 6:30 | 1110 | 7,473,019 |
| 9/9/2021 10:30 | 1120 | 7,540,344 |
| 9/9/2021 14:30 | 1130 | 7,607,669 |
| 9/9/2021 18:30 | 1140 | 7,674,993 |
| 9/9/2021 22:30 | 1140 | 7,674,993 |
| 9/10/2021 2:30 | 1150 | 7,742,318 |
| 9/10/2021 6:30 | 1160 | 7,809,642 |
| 9/10/2021 10:30 | 1190 | 8,011,615 |
| 9/10/2021 14:30 | 1220 | 8,213,589 |
| 9/10/2021 18:30 | 1250 | 8,415,562 |

**TABLE B12-2**
**FLOW DATA FOR LOCK #1 NR KELLY, NC - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Flow Rate ($ft^3/sec$) | Flow Volume (gal) |
|---|---|---|
| 9/10/2021 22:30 | 1290 | 8,684,860 |
| 9/11/2021 2:30 | 1330 | 8,954,159 |
| 9/11/2021 6:30 | 1380 | 9,290,781 |
| 9/11/2021 10:30 | 1430 | 9,627,403 |
| 9/11/2021 14:30 | 1510 | 10,166,000 |
| 9/11/2021 18:30 | 1570 | 10,569,946 |
| 9/11/2021 22:30 | 1630 | 10,973,893 |
| 9/12/2021 2:30 | 1670 | 11,243,192 |
| 9/12/2021 6:30 | 1720 | 11,579,814 |
| 9/12/2021 10:30 | 1760 | 11,849,112 |
| 9/12/2021 14:30 | 1800 | 12,118,410 |
| 9/12/2021 18:30 | 1820 | 12,253,059 |
| 9/12/2021 22:30 | 1750 | 11,781,787 |
| 9/13/2021 2:30 | 1660 | 11,175,867 |
| 9/13/2021 6:30 | 1560 | 10,502,622 |
| 9/13/2021 10:30 | 1500 | 10,098,675 |
| 9/13/2021 14:30 | 1440 | 9,694,728 |
| 9/13/2021 18:30 | 1390 | 9,358,105 |
| 9/13/2021 22:30 | 1340 | 9,021,483 |
| 9/14/2021 2:30 | 1300 | 8,752,185 |
| 9/14/2021 6:30 | 1270 | 8,550,211 |
| 9/14/2021 10:30 | 1240 | 8,348,238 |
| 9/14/2021 14:30 | 1220 | 8,213,589 |
| 9/14/2021 18:30 | 1200 | 8,078,940 |
| 9/14/2021 22:30 | 1180 | 7,944,291 |
| 9/15/2021 2:30 | 1160 | 7,809,642 |
| 9/15/2021 6:30 | 1130 | 7,607,668 |
| 9/15/2021 10:30 | 1110 | 7,473,019 |
| 9/15/2021 14:30 | 1090 | 7,338,371 |
| 9/15/2021 18:30 | 1080 | 7,271,046 |
| 9/15/2021 22:30 | 1080 | 7,271,046 |
| 9/16/2021 2:30 | 1070 | 7,203,722 |
| 9/16/2021 6:30 | 1060 | 7,136,397 |
| 9/16/2021 10:30 | 1050 | 7,069,072 |
| 9/16/2021 14:30 | 1040 | 7,001,748 |
| 9/16/2021 18:30 | 1040 | 7,001,748 |
| 9/16/2021 22:30 | 1040 | 7,001,748 |
| 9/17/2021 2:30 | 1040 | 7,001,748 |
| 9/17/2021 6:30 | 1040 | 7,001,748 |
| 9/17/2021 10:30 | 1040 | 7,001,748 |
| 9/17/2021 14:30 | 1040 | 7,001,748 |
| 9/17/2021 18:30 | 1050 | 7,069,072 |
| 9/17/2021 22:30 | 1050 | 7,069,072 |
| 9/18/2021 2:30 | 1050 | 7,069,073 |
| 9/18/2021 6:30 | 1050 | 7,069,072 |
| 9/18/2021 10:30 | 1040 | 7,001,748 |
| 9/18/2021 14:30 | 1040 | 7,001,748 |
| 9/18/2021 18:30 | 1040 | 7,001,748 |
| 9/18/2021 22:30 | 1030 | 6,934,423 |
| 9/19/2021 2:30 | 1030 | 6,934,424 |
| 9/19/2021 6:30 | 1030 | 6,934,423 |
| 9/19/2021 10:30 | 1030 | 6,934,423 |
| 9/19/2021 14:30 | 1030 | 6,934,424 |
| 9/19/2021 18:30 | 1040 | 7,001,748 |
| 9/19/2021 22:30 | 1040 | 7,001,748 |
| 9/20/2021 2:30 | 1040 | 7,001,748 |
| 9/20/2021 6:30 | 1040 | 7,001,748 |
| 9/20/2021 10:30 | 1040 | 7,001,748 |
| 9/20/2021 14:30 | 1040 | 7,001,748 |

**TABLE B12-2**
**FLOW DATA FOR LOCK #1 NR KELLY, NC - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Flow Rate ($ft^3$/sec) | Flow Volume (gal) |
|---|---|---|
| 9/20/2021 18:30 | 1040 | 7,001,748 |
| 9/20/2021 22:30 | 1060 | 7,136,397 |
| 9/21/2021 2:30 | 1080 | 7,271,046 |
| 9/21/2021 6:30 | 1080 | 7,271,046 |
| 9/21/2021 10:30 | 1080 | 7,271,046 |
| 9/21/2021 14:30 | 1100 | 7,405,695 |
| 9/21/2021 18:30 | 1120 | 7,540,344 |
| 9/21/2021 22:30 | 1160 | 7,809,642 |
| 9/22/2021 2:30 | 1240 | 8,348,238 |
| 9/22/2021 6:30 | 1310 | 8,819,509 |
| 9/22/2021 10:30 | 1370 | 9,223,456 |
| 9/22/2021 14:30 | 1430 | 9,627,404 |
| 9/22/2021 18:30 | 1500 | 10,098,675 |
| 9/22/2021 22:30 | 1560 | 10,502,622 |
| 9/23/2021 2:30 | 1670 | 11,243,192 |
| 9/23/2021 6:30 | 1910 | 12,858,979 |
| 9/23/2021 10:30 | 2130 | 14,340,118 |
| 9/23/2021 14:30 | 2620 | 17,639,019 |
| 9/23/2021 18:30 | 3060 | 20,601,297 |
| 9/23/2021 22:30 | 4370 | 29,420,806 |
| 9/24/2021 2:30 | 4830 | 32,517,734 |
| 9/24/2021 6:30 | 5360 | 36,085,932 |
| 9/24/2021 10:30 | 5890 | 39,654,130 |
| 9/24/2021 14:30 | 6520 | 43,895,574 |
| 9/24/2021 18:30 | 6920 | 46,588,554 |
| 9/24/2021 22:30 | 7790 | 52,445,785 |
| 9/25/2021 2:30 | 8320 | 56,013,984 |
| 9/25/2021 6:30 | 10200 | 68,670,990 |
| 9/25/2021 10:30 | 11700 | 78,769,665 |
| 9/25/2021 14:30 | 12400 | 83,482,380 |
| 9/25/2021 18:30 | 12500 | 84,155,625 |
| 9/25/2021 22:30 | 12600 | 84,828,870 |
| 9/26/2021 2:30 | 12300 | 82,809,135 |
| 9/26/2021 6:30 | 11900 | 80,116,155 |
| 9/26/2021 10:30 | 11300 | 76,076,685 |
| 9/26/2021 14:30 | 10600 | 71,363,970 |
| 9/26/2021 18:30 | 9760 | 65,708,712 |
| 9/26/2021 22:30 | 8910 | 59,986,129 |
| 9/27/2021 2:30 | 8050 | 54,196,223 |
| 9/27/2021 6:30 | 7420 | 49,954,779 |
| 9/27/2021 10:30 | 6850 | 46,117,282 |
| 9/27/2021 14:30 | 6230 | 41,943,164 |
| 9/27/2021 18:30 | 5580 | 37,567,071 |
| 9/27/2021 22:30 | 5220 | 35,143,389 |
| 9/28/2021 2:30 | 4710 | 31,709,840 |
| 9/28/2021 6:30 | 4260 | 28,680,237 |
| 9/28/2021 10:30 | 3810 | 25,650,634 |
| 9/28/2021 14:30 | 3620 | 24,371,469 |
| 9/28/2021 18:30 | 3440 | 23,159,628 |
| 9/28/2021 22:30 | 3280 | 22,082,436 |
| 9/29/2021 2:30 | 3120 | 21,005,244 |
| 9/29/2021 6:30 | 3000 | 20,197,350 |
| 9/29/2021 10:30 | 2870 | 19,322,131 |
| 9/29/2021 14:30 | 2700 | 18,177,615 |
| 9/29/2021 18:30 | 2530 | 17,033,098 |
| 9/29/2021 22:30 | 2350 | 15,821,257 |
| 9/30/2021 2:30 | 2220 | 14,946,039 |
| 9/30/2021 6:30 | 2110 | 14,205,469 |
| 9/30/2021 10:30 | 1960 | 13,195,602 |

**TABLE B12-2**
**FLOW DATA FOR LOCK #1 NR KELLY, NC - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | Flow Rate ($ft^3$/sec) | Flow Volume (gal) |
|---|---|---|
| 9/30/2021 14:30 | 1800 | 12,118,410 |
| 9/30/2021 18:30 | 1690 | 11,377,840 |
| 9/30/2021 22:30 | 1650 | 11,108,542 |

***Notes***

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

For the month of September, discharge computation at this gauging station was discontinued due to construction on the dam. The reported flow values are estimated by USGS.

$ft^3$/sec - cubic feet per second

ft - feet

gal - gallons

USGS - United States Geological Survey

**TABLE B13**
**CHEMOURS FACILITY INTAKE FLOW RATE - Q3 2021**
**Chemours Fayetteville Works, North Carolina**

| Q3 2021 Monthly Event | Date | Intake Flow River Water Total Daily Flow Average (gpm) | Total Daily Volume (gal) | Hours of Sample Collection | Approximate Total Volume during 24 hour Sample Collection (gal) |
|---|---|---|---|---|---|
| July 2021[1] | 07/27/2021 | 10947.500 | 15,764,400 | 18.90 | 12,414,465 |
| | 07/28/2021 | 10657.914 | 15,347,396 | 4.10 | 2,621,847 |
| | 7/27/2021 5:06 am to 7/28/2021 4:06 am | | | 23 | 15,036,312 |
| August 2021[2] | 8/18/2021 | 10144.041 | 14,607,418 | 14.9 | 9,068,772 |
| | 8/19/2021 | 10304.747 | 14,838,836 | 8.1 | 5,008,107 |
| | 8/18/2021 9:06 am to 8/19/2021 8:06 am | | | 23 | 14,076,879 |
| September 2021[3] | 9/14/2021 | 9792.525 | 14,101,237 | 17.9 | 10,517,172 |
| | 9/15/2021 | 10170.233 | 14,645,136 | 5.1 | 3,112,091 |
| | 9/14/2021 6:06 am to 9/15/2021 5:06 am | | | 23 | 13,629,264 |

***Notes:***

Daily flow rates collected from facility Discharge Monitoring Reports.

1 - Total flow volume for 24-hour temporal composite sample collected at 4:06 am on 7/28/2021 approximated based on flow rates for 7/27/2021 and 7/28/2021

2 - Total flow volume for 24-hour temporal composite sample collected at 8:06 am on 8/19/2021 approximated based on flow rates for 8/18/2021 and 8/19/2021

3 - Total flow volume for 24-hour temporal composite sample collected at 5:06 am on 9/15/2021 approximated based on flow rates for 9/14/2021 and 9/15/2021

***Acronyms:***

gal - gallons

gpm - gallons per minute

**TABLE B14**
**STORMWATER TREATMENT SYSTEM FLOW RATE - Q3 2021**
**Chemours Fayetteville Works, North Carolina**

| Q3 2021 Monthly Event | Date | Average flow to the Stormwater treatment system (gpm)[1] | Total Daily Volume (gal)[1] |
|---|---|---|---|
| July 2021 | 7/27/2021 | --[2] | --[2] |
| August 2021 | 8/18/2021 | 72 | 103,515 |
| September 2021 | 9/15/2021 | --[2] | --[2] |

***Notes:***

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

1 - Influent flow is equal to the Effluent flow at the Stormwater Treatment System.

2 - There was no flow to the Stormwater Treatment System during the July or September 2021 sampling events, therefore a sample was not collected and flow was not measured at this location for those months.

***Acronyms:***

gal - gallons
gpm - gallons per minute

**TABLE B15**
**CAPE FEAR RIVER PFAS MASS LOAD BY COMPOUND AND TIME INTERVAL - HISTORICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Interval Details | | | | Calculated Mass Load [2] (kg) | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Interval ID** | **Start Time [1]** | **End Time [1]** | **Total River Flow ($m^3$)** | HFPO-DA | PFMOAA | PFO2HxA | PFO3OA | PFO4DA | PFO5DA | PMPA | PEPA | PS Acid (Formerly PFESA-BP1) | Hydro-PS Acid (Formerly PFESA-BP2) | R-PSDA (Formerly Byproduct 4) | Hydrolyzed PSDA (Forerly Byproduct 5) | R-PSDCA (Formerly Byproduct 6) | NVHOS | EVE Acid | Hydro-EVE Acid | R-EVE | PES | PFECA B | PFECA-G | PFHpA | **Total Attachment C[3]** | **Total Table 3+ (17 Compounds)[4]** | **Total Table 3+ (20 Compounds)** |
| 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 |
| ***Q1 2020 Totals*** | ***3-28-20 1:00*** | ***5-9-20 23:49*** | ***514,568,356*** | ***4.7*** | ***20*** | ***7.8*** | ***1.8*** | ***0*** | ***0.88*** | ***10*** | ***0*** | ***0*** | ***0*** | ***4.1*** | ***8.0*** | ***0*** | ***0.72*** | ***0*** | ***0*** | ***0.81*** | ***0*** | ***0*** | ***0*** | ***1.8*** | ***45*** | ***46*** | ***59*** |
| 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 |
| ***Q2 2020 Totals*** | ***5-9-20 23:49*** | ***6-29-20 16:06*** | ***1,308,580,748*** | ***11*** | ***26*** | ***15*** | ***2.4*** | ***0*** | ***0*** | ***20*** | ***3.6*** | ***0.62*** | ***0*** | ***6.3*** | ***13*** | ***0*** | ***0.63*** | ***0*** | ***0*** | ***2.1*** | ***0*** | ***0*** | ***0*** | ***0*** | ***79*** | ***80*** | ***102*** |
| 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 |
| 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 | NA | 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 | NA | 0.6 | 0.6 | 0.8 |

**TABLE B15**
**CAPE FEAR RIVER PFAS MASS LOAD BY COMPOUND AND TIME INTERVAL - HISTORICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Interval Details | | | | Calculated Mass Load [2] (kg) | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Interval ID | Start Time [1] | End Time [1] | Total River Flow ($m^3$) | HFPO-DA | PFMOAA | PFO2HxA | PFO3OA | PFO4DA | PFO5DA | PMPA | PEPA | PS Acid (Formerly PFESA-BP1) | Hydro-PS Acid (Formerly PFESA-BP2) | R-PSDA (Formerly Byproduct 4) | Hydrolyzed PSDA (Forerly Byproduct 5) | R-PSDCA (Formerly Byproduct 6) | NVHOS | EVE Acid | Hydro-EVE Acid | R-EVE | PES | PFECA B | PFECA-G | PFHpA | Total Attachment C[3] | Total Table 3+ (17 Compounds)[4] | Total Table 3+ (20 Compounds) |
| 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 | NA | 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 | NA | 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 | NA | 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 | 0.01 | 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 | 0.02 | 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 | 0.03 | 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 | 0.12 | 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 | 0.03 | 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 | 0.12 | 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 | 0.05 | 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 | 0.21 | 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 | 0.06 | 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 | 0.04 | 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 | 0.07 | 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 | 0.13 | 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 | 0.07 | 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 | 0.16 | 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 | 0.06 | 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 | 0.26 | 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 | 0.05 | 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 | 0.02 | 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 | 0.08 | 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 | 0.07 | 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 | 0.03 | 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 | 0.07 | 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 | 0.02 | 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 | 0.04 | 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 | 0.02 | 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 | 0.05 | 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 | 0.02 | 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 | 0.01 | 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 | 0.01 | 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 | 0.02 | 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 | 0.11 | 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 | 0.06 | 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 | 0.13 | 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 | 0.06 | 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 | 0.06 | 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 | 0.10 | 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 | 0.12 | 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 | 0.08 | 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 | 0.09 | 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 | 0.08 | 0 | 0 | 0 | 0.14 | 2.1 | 2.1 | 2.8 |
| ***Q3 2020 Totals*** | ***6-29-20 16:06*** | ***10-1-20 0:01*** | ***1,036,211,393*** | ***12*** | ***30*** | ***17*** | ***3.5*** | ***0.88*** | ***0.08*** | ***13*** | ***0.50*** | ***0*** | ***0*** | ***5.6*** | ***14*** | ***0*** | ***1.1*** | ***0*** | ***0*** | ***1.2*** | ***0*** | ***0*** | ***0*** | ***3.2*** | ***77*** | ***78*** | ***100*** |
| 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 | 0.12 | 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 | 0.51 | 1.8 | 1.8 | 2.1 |
| 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 |

**TABLE B15**
**CAPE FEAR RIVER PFAS MASS LOAD BY COMPOUND AND TIME INTERVAL - HISTORICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Interval Details | | | | Calculated Mass Load [2] (kg) | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Interval ID | Start Time [1] | End Time [1] | Total River Flow ($m^3$) | HFPO-DA | PFMOAA | PFO2HxA | PFO3OA | PFO4DA | PFO5DA | PMPA | PEPA | PS Acid (Formerly PFESA-BP1) | Hydro-PS Acid (Formerly PFESA-BP2) | R-PSDA (Formerly Byproduct 4) | Hydrolyzed PSDA (Forerly Byproduct 5) | R-PSDCA (Formerly Byproduct 6) | NVHOS | EVE Acid | Hydro-EVE Acid | R-EVE | PES | PFECA B | PFECA-G | PFHpA | Total Attachment C[3] | Total Table 3+ (17 Compounds)[4] | Total Table 3+ (20 Compounds) |
| 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 |
| 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 |

**TABLE B15**
**CAPE FEAR RIVER PFAS MASS LOAD BY COMPOUND AND TIME INTERVAL - HISTORICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Interval Details | | | | Calculated Mass Load [2] (kg) | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Interval ID** | **Start Time [1]** | **End Time [1]** | **Total River Flow ($m^3$)** | HFPO-DA | PFMOAA | PFO2HxA | PFO3OA | PFO4DA | PFO5DA | PMPA | PEPA | PS Acid (Formerly PFESA-BP1) | Hydro-PS Acid (Formerly PFESA-BP2) | R-PSDA (Formerly Byproduct 4) | Hydrolyzed PSDA (Forerly Byproduct 5) | R-PSDCA (Formerly Byproduct 6) | NVHOS | EVE Acid | Hydro-EVE Acid | R-EVE | PES | PFECA B | PFECA-G | PFHpA | **Total Attachment C[3]** | **Total Table 3+ (17 Compounds)[4]** | **Total Table 3+ (20 Compounds)** |
| 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 |
| ***Q4 2020 Totals*** | ***10-1-20 0:01*** | ***12-30-20 10:56*** | ***2,118,736,971*** | ***16*** | ***27*** | ***17*** | ***1.8*** | ***0.61*** | ***0.35*** | ***13*** | ***0.59*** | ***0*** | ***0*** | ***10*** | ***9.9*** | ***0*** | ***0.65*** | ***0*** | ***0*** | ***1.5*** | ***0*** | ***0*** | ***0*** | ***8.5*** | ***76*** | ***77*** | ***99*** |
| 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 | 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 |
| 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 | 0.12 | 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 | 0.04 | 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 | 0.05 | 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 | 0.06 | 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 | 0.08 | 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 | 0.11 | 0.59 | 0.59 | 0.71 |
| ***Q1 2021 Totals*** | ***12-30-20 10:56*** | ***3-31-21 23:01*** | ***3,157,903,369*** | ***19*** | ***32*** | ***17*** | ***0.68*** | ***0*** | ***0*** | ***25*** | ***0.55*** | ***0*** | ***0*** | ***12*** | ***10*** | ***0*** | ***0.61*** | ***0*** | ***0*** | ***1.2*** | ***0*** | ***0*** | ***0*** | ***7.3*** | ***94*** | ***94*** | ***118*** |
| 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 |

**TABLE B15**
**CAPE FEAR RIVER PFAS MASS LOAD BY COMPOUND AND TIME INTERVAL - HISTORICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Interval Details | | | | Calculated Mass Load [2] (kg) | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Interval ID | Start Time [1] | End Time [1] | Total River Flow ($m^3$) | HFPO-DA | PFMOAA | PFO2HxA | PFO3OA | PFO4DA | PFO5DA | PMPA | PEPA | PS Acid (Formerly PFESA-BP1) | Hydro-PS Acid (Formerly PFESA-BP2) | R-PSDA (Formerly Byproduct 4) | Hydrolyzed PSDA (Forerly Byproduct 5) | R-PSDCA (Formerly Byproduct 6) | NVHOS | EVE Acid | Hydro-EVE Acid | R-EVE | PES | PFECA B | PFECA-G | PFHpA | Total Attachment C[3] | Total Table 3+ (17 Compounds)[4] | Total Table 3+ (20 Compounds) |
| 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 | 0.00 | 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 |
| 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 |

**TABLE B15**
**CAPE FEAR RIVER PFAS MASS LOAD BY COMPOUND AND TIME INTERVAL - HISTORICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Interval Details | | | | Calculated Mass Load [2] (kg) | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Interval ID | Start Time [1] | End Time [1] | Total River Flow ($m^3$) | HFPO-DA | PFMOAA | PFO2HxA | PFO3OA | PFO4DA | PFO5DA | PMPA | PEPA | PS Acid (Formerly PFESA-BP1) | Hydro-PS Acid (Formerly PFESA-BP2) | R-PSDA (Formerly Byproduct 4) | Hydrolyzed PSDA (Forerly Byproduct 5) | R-PSDCA (Formerly Byproduct 6) | NVHOS | EVE Acid | Hydro-EVE Acid | R-EVE | PES | PFECA B | PFECA-G | PFHpA | Total Attachment C[3] | Total Table 3+ (17 Compounds)[4] | Total Table 3+ (20 Compounds) |
| 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 |
| ***Q2 2021 Totals*** | ***3-31-21 23:01*** | ***7-1-21 0:01*** | ***701,862,124*** | ***13*** | ***30*** | ***12*** | ***2.6*** | ***0*** | ***0.05*** | ***18*** | ***0*** | ***0*** | ***0*** | ***8.1*** | ***18*** | ***0*** | ***2.1*** | ***0*** | ***0*** | ***2.3*** | ***0*** | ***0*** | ***0*** | ***3.1*** | ***75*** | ***77*** | ***106*** |

***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, 2020d) for more details.

3 - Total Attachment C does not include Perfluorohepthanoic acid (PFHpA).

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

NA - Compound not sampled

**TABLE B16**
**SUMMARY OF TOTAL PFAS MASS DISCHARGE AT TAR HEEL FERRY ROAD BRIDGE - HISTORICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Quarter | Field Sample ID | Collection Date | Hours Composited[1] | Concentrations (ng/L) | | | Total Volume ($ft^3$)[4] | Instantaneous Flow Rate ($ft^3/s$)[5] | Mass Discharge (mg/s) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total Attachment C[2] | Total Table 3+ (17 compounds)[3] | Total Table 3+ (20 compounds) | | | Total Attachment C[2] | Total Table 3+ (17 compounds)[3] | 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 |

**TABLE B16**
**SUMMARY OF TOTAL PFAS MASS DISCHARGE AT TAR HEEL FERRY ROAD BRIDGE - HISTORICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Quarter | Field Sample ID | Collection Date | Hours Composited[1] | Concentrations (ng/L) | | | Total Volume ($ft^3$)[4] | Instantaneous Flow Rate ($ft^3/s$)[5] | Mass Discharge (mg/s) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total Attachment C[2] | Total Table 3+ (17 compounds)[3] | Total Table 3+ (20 compounds) | | | Total Attachment C[2] | Total Table 3+ (17 compounds)[3] | Total Table 3+ (20 compounds) |
| 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 |
| 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 |

**TABLE B16**
**SUMMARY OF TOTAL PFAS MASS DISCHARGE AT TAR HEEL FERRY ROAD BRIDGE - HISTORICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Quarter | Field Sample ID | Collection Date | Hours Composited[1] | Concentrations (ng/L) | | | Total Volume ($ft^3$)[4] | Instantaneous Flow Rate ($ft^3/s$)[5] | Mass Discharge (mg/s) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total Attachment C[2] | Total Table 3+ (17 compounds)[3] | Total Table 3+ (20 compounds) | | | Total Attachment C[2] | Total Table 3+ (17 compounds)[3] | Total Table 3+ (20 compounds) |
| 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 |
| 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 |

**TABLE B16**
**SUMMARY OF TOTAL PFAS MASS DISCHARGE AT TAR HEEL FERRY ROAD BRIDGE - HISTORICAL RESULTS**
**Chemours Fayetteville Works, North Carolina**

| Quarter | Field Sample ID | Collection Date | Hours Composited[1] | Concentrations (ng/L) | | | Total Volume ($ft^3$)[4] | Instantaneous Flow Rate ($ft^3/s$)[5] | Mass Discharge (mg/s) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total Attachment C[2] | Total Table 3+ (17 compounds)[3] | Total Table 3+ (20 compounds) | | | Total Attachment C[2] | Total Table 3+ (17 compounds)[3] | Total Table 3+ (20 compounds) |
| 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 |
| 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 |

***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 Perfluoroheptanoic acid (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 calculated the mass discharge.

-- - not applicable
ng/L - nanograms per liter
$ft^3$ - cubic feet
mg/s - milligrams per second

**TABLE B17-1**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY BEFORE REMEDIES - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | 1 | 2 | 4 | 4A |
|---|---|---|---|---|
| Pathway Name | Upstream River Water and Groundwater | Willis Creek | Outfall 002[3] | Stormwater Treatment System[4] |
| Flow (MG) | 1840 | 8.1 | 16 | -- |
| Instantaneous Flow (ft3/sec) | -- | -- | -- | -- |
| Program | CAP SW Sampling 07/21 | CAP SW Sampling 07/21 | CAP SW Sampling 07/21 | STS Compliance Sampling |
| Location ID | CFR-MILE-76 | WC-1 | OUTFALL 002 | STS INFLUENT |
| Field Sample ID | CAP0721-CFR-RM-76-072721 | CAP0721-WC-1-20-072821 | CAP0721-OUTFALL-002-24-072821 | -- |
| Sample Date and Time[2] | 7/27/2021 | 7/28/2021 | 7/28/2021 | -- |
| QA/QC | 0 | FS | FS | -- |
| Sample Matrix | LIQUID | LIQUID | LIQUID | -- |
| Sample Delivery Group (SDG) | 320-76991-2 | 320-77020-1 | 320-68081-1 | -- |
| Lab Sample ID | 320-76991-1 | 320-77020-2 | 320-68081-2 | -- |
| Sample Type | Grab | Composite | Composite | -- |
| *Table 3+ Lab SOP Mass Discharge[7] (mg/s)* | | | | |
| HFPO-DA | **0.274** | **0.12** | **0.12** | -- |
| PFMOAA | **0.210** | **0.20** | ND | -- |
| PFO2HxA | **0.282** | **0.12** | **0.009** | -- |
| PFO3OA | ND | **0.02** | ND | -- |
| PFO4DA | ND | **0.005** | ND | -- |
| PFO5DA | ND | ND | ND | -- |
| PMPA | **0.8** | **0.15** | **0.008** | -- |
| PEPA | ND | **0.03** | ND | -- |
| PS Acid | ND | ND | ND | -- |
| Hydro-PS Acid | ND | **0.004** | ND | -- |
| R-PSDA | **0.29** | **0.03** | ND | -- |
| Hydrolyzed PSDA | ND | **0.09** | **0.00** | -- |
| R-PSDCA | ND | ND | ND | -- |
| NVHOS, Acid Form | **0.20** | **0.004** | ND | -- |
| EVE Acid | ND | ND | ND | -- |
| Hydro-EVE Acid | ND | **0.002** | ND | -- |
| R-EVE | ND | **0.014** | **0.00** | -- |
| PES | ND | ND | ND | -- |
| PFECA B | ND | ND | ND | -- |
| PFECA-G | ND | ND | ND | -- |
| **Total Attachment C Mass Discharge[8,9]** | **1.61** | **0.64** | **0.23** | -- |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | **1.77** | **0.64** | **0.34** | -- |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | **2.10** | **0.78** | **0.65** | -- |

**TABLE B17-1**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY BEFORE REMEDIES - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| **Pathway Number[1]** | **5** | **5** | **6A** | **6B** |
|---|---|---|---|---|
| **Pathway Name** | **Onsite Groundwater - Lower Bound[5]** | **Onsite Groundwater - Upper Bound[5]** | **Seep A** | **Seep B** |
| **Flow (MG)** | -- | -- | **0.19** | **0.65** |
| **Instantaneous Flow (ft3/sec)** | -- | -- | -- | -- |
| **Program** | | | **Seep-A FTC** | **Seep-B FTC** |
| **Location ID** | -- | -- | **SEEP-A-INF** | **SEEP-B-INF** |
| **Field Sample ID** | -- | -- | **SEEP-A-INFLUENT-24-072321** | **SEEP-B-Influent-312-140721** |
| **Sample Date and Time[2]** | -- | -- | **7/23/2021** | **7/14/2021** |
| **QA/QC** | | | **FS** | **FS** |
| **Sample Matrix** | | | **Liquid** | **LIQUID** |
| **Sample Delivery Group (SDG)** | | | **320-77003-1** | **320-76388-1** |
| **Lab Sample ID** | | | **320-77003-1** | **320-76388-2** |
| **Sample Type** | -- | -- | **Composite** | **Composite** |
| ***Table 3+ Lab SOP Mass Discharge[7] (mg/s)*** | | | | |
| HFPO-DA | **0.35** | **0.41** | **0.16** | **1.00** |
| PFMOAA | **2.0** | **2.6** | **0.42** | **1.4** |
| PFO2HxA | **0.58** | **0.70** | **0.22** | **0.57** |
| PFO3OA | **0.27** | **0.32** | **0.08** | **0.17** |
| PFO4DA | **0.30** | **0.36** | **0.05** | **0.05** |
| PFO5DA | **0.088** | **0.11** | **0.03** | **0.011** |
| PMPA | **0.17** | **0.20** | **0.14** | **1.26** |
| PEPA | **0.05** | **0.06** | **0.05** | **0.57** |
| PS Acid | **0.014** | **0.017** | **0.03** | **0.07** |
| Hydro-PS Acid | **0.041** | **0.050** | **0.01** | **0.025** |
| R-PSDA | **0.036** | **0.04** | **0.02** | **0.14** |
| Hydrolyzed PSDA | **0.08** | **0.10** | **0.14** | **0.94** |
| R-PSDCA | **0.0026** | **0.0032** | **0.000** | **0.002** |
| NVHOS, Acid Form | **0.02** | **0.03** | **0.01** | **0.06** |
| EVE Acid | **0.0016** | **0.002** | **0.01** | **0.10** |
| Hydro-EVE Acid | **0.028** | **0.034** | **0.01** | **0.06** |
| R-EVE | **0.014** | **0.017** | **0.01** | **0.11** |
| PES | ND | ND | ND | ND |
| PFECA B | ND | ND | ND | ND |
| PFECA-G | ND | ND | ND | ND |
| **Total Attachment C Mass Discharge[8,9]** | **3.9** | **4.7** | **1.2** | **5.1** |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | **3.9** | **4.8** | **1.2** | **5.4** |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | **4.0** | **5.0** | **1.4** | **6.6** |

**TABLE B17-1**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY BEFORE REMEDIES - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | 6C | 6D | 6E | 7 |
|---|---|---|---|---|
| Pathway Name | Seep C | Seep D | Lock and Dam Seep | Old Outfall 002 |
| Flow (MG) | 0.04 | 0.18 | 0.01 | 0.76 |
| Instantaneous Flow (ft3/sec) | -- | -- | -- | -- |
| Program | Seep-C FTC | Seep-DFTC | CAP SW Sampling 07/21 | Old Outfall 002 Treatment System |
| Location ID | SEEP-C-INF | SEEP-D-INF | Lock-Dam Seep | Old Outfall 002 Influent |
| Field Sample ID | SEEP-C-Influent-336-140721 | SEEP-D-Influent-24-140721 | CAP0721-LOCK-DAM-SEEP-072721 | Influent-0721 |
| Sample Date and Time[2] | 7/14/2021 | 7/14/2021 | 7/27/2021 | 7/7/2021 |
| QA/QC | FS | FS | 0 | FS |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-76388-1 | 320-76388-1 | 320-76991-1 | 410-46313-1 |
| Lab Sample ID | 320-76388-3 | 320-76388-4 | 320-76991-4 | 410-46313-1 |
| Sample Type | Composite | Composite | Grab | Composite |
| *Table 3+ Lab SOP Mass Discharge[7] (mg/s)* | | | | |
| HFPO-DA | 0.02 | 0.10 | 0.003 | 0.22 |
| PFMOAA | 0.08 | 0.43 | 0.03 | 1.2 |
| PFO2HxA | 0.03 | 0.14 | 0.01 | 0.33 |
| PFO3OA | 0.01 | 0.05 | 0.00 | 0.10 |
| PFO4DA | 0.00 | 0.01 | 0.001 | 0.04 |
| PFO5DA | ND | 0.001 | 0.0000 | 0.02 |
| PMPA | 0.01 | 0.06 | 0.003 | 0.13 |
| PEPA | 0.00 | 0.02 | 0.001 | 0.05 |
| PS Acid | ND | ND | ND | 0.02 |
| Hydro-PS Acid | 0.000 | 0.002 | 0.0000 | 0.01 |
| R-PSDA | 0.001 | 0.007 | 0.000 | 0.02 |
| Hydrolyzed PSDA | 0.001 | 0.016 | 0.000 | 0.02 |
| R-PSDCA | ND | ND | 0.000 | 0.0003 |
| NVHOS, Acid Form | 0.001 | 0.005 | 0.000 | 0.01 |
| EVE Acid | ND | ND | ND | 0.002 |
| Hydro-EVE Acid | 0.002 | 0.007 | 0.00 | 0.005 |
| R-EVE | 0.001 | 0.007 | 0.0001 | 0.004 |
| PES | ND | ND | ND | ND |
| PFECA B | ND | ND | ND | ND |
| PFECA-G | ND | ND | ND | ND |
| **Total Attachment C Mass Discharge[8,9]** | 0.16 | 0.8 | 0.05 | 2.1 |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | 0.17 | 0.8 | 0.05 | 2.2 |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | 0.17 | 0.9 | 0.05 | 2.2 |

**TABLE B17-1**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY BEFORE REMEDIES - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| | | | | |
|---|---|---|---|---|
| **Pathway Number[1]** | **9** | **Sum of All Pathways - Lower Bound** | **Sum of All Pathways - Upper Bound** | **--** |
| **Pathway Name** | **Georgia Branch Creek** | | | **Tar Heel Ferry Road Bridge[6]** |
| **Flow (MG)** | **5.3** | | | **--** |
| **Instantaneous Flow (ft3/sec)** | **--** | | | **4,220** |
| **Program** | **CAP SW Sampling 07/21** | | | **CAP SW Sampling 07/21** |
| **Location ID** | **GBC-1** | | | **CFR-TARHEEL** |
| **Field Sample ID** | **CAP0721-GBC-1-072721** | | | **CAP0721-CFR-TARHEEL-072821** |
| **Sample Date and Time[2]** | **7/27/2021** | | | **7/28/2021** |
| **QA/QC** | **0** | | | **FS** |
| **Sample Matrix** | **LIQUID** | | | **LIQUID** |
| **Sample Delivery Group (SDG)** | **320-76991-1** | | | **320-76991-1** |
| **Lab Sample ID** | **320-76991-3** | | | **320-76991-5** |
| **Sample Type** | **Grab** | | | **Grab** |
| ***Table 3+ Lab SOP Mass Discharge[7] (mg/s)*** | | | | |
| HFPO-DA | **0.08** | **2.4** | **2.5** | **0.7** |
| PFMOAA | **0.01** | **6.04** | **6.5** | **0.6** |
| PFO2HxA | **0.06** | **2.3** | **2.5** | **0.8** |
| PFO3OA | **0.01** | **0.71** | **0.77** | ND |
| PFO4DA | **0.003** | **0.46** | **0.52** | ND |
| PFO5DA | ND | **0.15** | **0.17** | ND |
| PMPA | **0.12** | **2.9** | **2.9** | **3.5** |
| PEPA | **0.03** | **0.81** | **0.81** | ND |
| PS Acid | ND | **0.13** | **0.14** | ND |
| Hydro-PS Acid | **0.004** | **0.09** | **0.10** | ND |
| R-PSDA | **0.01** | **0.54** | **0.54** | ND |
| Hydrolyzed PSDA | ND | **1.29** | **1.31** | **0.4** |
| R-PSDCA | ND | **0.01** | **0.01** | ND |
| NVHOS, Acid Form | **0.001** | **0.31** | **0.32** | **0.50** |
| EVE Acid | ND | **0.11** | **0.11** | ND |
| Hydro-EVE Acid | ND | **0.11** | **0.12** | ND |
| R-EVE | **0.004** | **0.16** | **0.16** | ND |
| PES | ND | **0.00** | **0.00** | ND |
| PFECA B | ND | **0.00** | **0.00** | ND |
| PFECA-G | ND | **0.00** | **0.00** | ND |
| **Total Attachment C Mass Discharge[8,9]** | **0.32** | **16.2** | **17.0** | **5.5** |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | **0.32** | **16.8** | **17.6** | **6.0** |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | **0.32** | **19.1** | **20.0** | **6.5** |

**TABLE B17-1**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY BEFORE REMEDIES - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| **Pathway Number**[1] | -- | -- | -- |
|---|---|---|---|
| **Pathway Name** | **Tar Heel Ferry Road Bridge** | **Bladen Bluff**[6] | **Kings Bluff**[5] |
| **Flow (MG)** | **1710** | -- | -- |
| **Instantaneous Flow (ft3/sec)** | -- | **2,640** | **3,070** |
| **Program** | **CAP SW Sampling 07/21** | **CAP SW Sampling 07/21** | **CAP SW Sampling 07/21** |
| **Location ID** | **CFR-TARHEEL** | **CFR-BLADEN** | **CFR-KINGS** |
| **Field Sample ID** | **CAP0721-CFR-TARHEEL-24-072821** | **CAP0721-CFR-BLADEN-072721** | **CAP0721-CFR-KINGS-073021** |
| **Sample Date and Time**[2] | **7/28/2021** | **7/27/2021** | **7/30/2021** |
| **QA/QC** | **0** | **0** | **0** |
| **Sample Matrix** | **Liquid** | **LIQUID** | **LIQUID** |
| **Sample Delivery Group (SDG)** | **320-77167-1** | **320-76991-1** | **320-77167-1** |
| **Lab Sample ID** | **320-77167-1** | **320-76991-2** | **320-77167-3** |
| **Sample Type** | **Composite** | **Grab** | **Grab** |
| ***Table 3+ Lab SOP Mass Discharge*** [7] ***(mg/s)*** | | | |
| HFPO-DA | **0.7** | **1.1** | **1.04** |
| PFMOAA | **0.7** | **0.8** | **1.4** |
| PFO2HxA | **0.7** | **1.1** | **1.3** |
| PFO3OA | **0.19** | **0.28** | **0.31** |
| PFO4DA | ND | ND | ND |
| PFO5DA | ND | ND | ND |
| PMPA | **2.2** | **3.3** | **2.78** |
| PEPA | ND | ND | ND |
| PS Acid | ND | ND | ND |
| Hydro-PS Acid | ND | ND | ND |
| R-PSDA | **0.7** | **0.52** | **0.72** |
| Hydrolyzed PSDA | **0** | **0.5** | **0.6** |
| R-PSDCA | ND | ND | ND |
| NVHOS, Acid Form | **0.41** | **0.2** | **0.3** |
| EVE Acid | ND | **0.150** | ND |
| Hydro-EVE Acid | ND | ND | ND |
| R-EVE | ND | **0.329** | **0.39** |
| PES | ND | ND | ND |
| PFECA B | ND | ND | ND |
| PFECA-G | ND | ND | ND |
| **Total Attachment C Mass Discharge**[8,9] | **4.5** | **6.7** | **6.9** |
| **Total Table 3+ Mass Discharge (17 compounds)**[8,10] | **4.9** | **7.0** | **7.1** |
| **Total Table 3+ Mass Discharge (20 Compounds)**[8] | **5.9** | **8.2** | **8.7** |

***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 Appendix F and Cape Fear River PFAS Mass Loading Calculation Protocol Version 2 (Geosyntec, 2020d).

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 July 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 Appendix E. 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 Appendix E.

6 - 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.

7 - Mass discharge by analyte is calculated based on Table 3+ concentrations in Tables A2 and A5 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 A2 and Table A5, 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/s - milligrams per second

ND - Analyte not detected above associated reporting limit.

**TABLE B17-2**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY AFTER REMEDIES - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | 1 | 2 | 4 | 4A |
|---|---|---|---|---|
| Pathway Name | Upstream River Water and Groundwater | Willis Creek | Outfall 002[3] | Stormwater Treatment System[4] |
| Flow (MG) | 1840 | 8.1 | 16 | -- |
| Instantaneous Flow (ft3/sec) | -- | -- | -- | -- |
| Program | CAP SW Sampling 07/21 | CAP SW Sampling 04/21 | CAP SW Sampling Jan 2021 | STS Compliance Sampling |
| Location ID | CFR-MILE-76 | WC-1 | OUTFALL 002 | STS DISCHARGE |
| Field Sample ID | CAP0721-CFR-RM-76-072721 | CAP0721-WC-1-20-072821 | CAP0721-OUTFALL-002-24-072821 | -- |
| Sample Date and Time[2] | 7/27/2021 | 7/28/2021 | 7/28/2021 | -- |
| QA/QC | 0 | FS | FS | -- |
| Sample Matrix | LIQUID | LIQUID | LIQUID | -- |
| Sample Delivery Group (SDG) | 320-76991-2 | 320-77020-1 | 320-68081-1 | -- |
| Lab Sample ID | 320-76991-1 | 320-77020-2 | 320-68081-2 | -- |
| Sample Type | Grab | Composite | Composite | -- |
| *Table 3+ Lab SOP Mass Discharge[7] (mg/s)* | | | | |
| HFPO-DA | **0.274** | **0.12** | **0.12** | -- |
| PFMOAA | **0.210** | **0.20** | ND | -- |
| PFO2HxA | **0.282** | **0.12** | **0.009** | -- |
| PFO3OA | ND | **0.02** | ND | -- |
| PFO4DA | ND | **0.005** | ND | -- |
| PFO5DA | ND | ND | ND | -- |
| PMPA | **0.8** | **0.15** | **0.008** | -- |
| PEPA | ND | **0.03** | ND | -- |
| PS Acid | ND | ND | ND | -- |
| Hydro-PS Acid | ND | **0.004** | ND | -- |
| R-PSDA | **0.29** | **0.03** | ND | -- |
| Hydrolyzed PSDA | ND | **0.09** | ND | -- |
| R-PSDCA | ND | ND | ND | -- |
| NVHOS, Acid Form | **0.20** | **0.004** | ND | -- |
| EVE Acid | ND | ND | ND | -- |
| Hydro-EVE Acid | ND | **0.002** | ND | -- |
| R-EVE | ND | **0.01** | ND | -- |
| PES | ND | ND | ND | -- |
| PFECA B | ND | ND | ND | -- |
| PFECA-G | ND | ND | ND | -- |
| **Total Attachment C Mass Discharge[8,9]** | **1.61** | **0.64** | **0.23** | -- |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | **1.77** | **0.64** | **0.34** | -- |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | **2.10** | **0.78** | **0.65** | -- |

**TABLE B17-2**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY AFTER REMEDIES - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| **Pathway Number**[1] | **5** | **5** | **6A** | **6B** |
|---|---|---|---|---|
| **Pathway Name** | **Onsite Groundwater - Lower Bound**[5] | **Onsite Groundwater - Upper Bound**[5] | **Seep A** | **Seep B** |
| **Flow (MG)** | -- | -- | **0.19** | **0.65** |
| **Instantaneous Flow (ft3/sec)** | -- | -- | -- | -- |
| **Program** | | | **CAP SW Sampling 07/21** | **CAP SW Sampling 07/21** |
| **Location ID** | -- | -- | **SEEP-A-EFF** | **SEEP-B-EFF** |
| **Field Sample ID** | -- | -- | **CAP0721-SEEP-A-EFF-24-072921** | **CAP0721-SEEP-B-EFF-24-072821** |
| **Sample Date and Time**[2] | -- | -- | **7/29/2021** | **7/28/2021** |
| **QA/QC** | | | **0** | **FS** |
| **Sample Matrix** | | | **Liquid** | **LIQUID** |
| **Sample Delivery Group (SDG)** | | | **320-77167-1** | **320-77002-1** |
| **Lab Sample ID** | | | **320-77167-2** | **320-77002-1** |
| **Sample Type** | -- | -- | **Composite** | **Composite** |
| ***Table 3+ Lab SOP Mass Discharge***[7] ***(mg/s)*** | | | | |
| HFPO-DA | **0.35** | **0.41** | ND | ND |
| PFMOAA | **2.0** | **2.6** | **3.4E-05** | ND |
| PFO2HxA | **0.58** | **0.70** | ND | ND |
| PFO3OA | **0.27** | **0.32** | ND | ND |
| PFO4DA | **0.30** | **0.36** | ND | ND |
| PFO5DA | **0.088** | **0.11** | ND | ND |
| PMPA | **0.17** | **0.20** | ND | ND |
| PEPA | **0.05** | **0.06** | ND | ND |
| PS Acid | **0.014** | **0.017** | ND | ND |
| Hydro-PS Acid | **0.041** | **0.050** | ND | ND |
| R-PSDA | **0.036** | **0.04** | ND | ND |
| Hydrolyzed PSDA | **0.08** | **0.10** | ND | ND |
| R-PSDCA | **0.0026** | **0.0032** | ND | ND |
| NVHOS, Acid Form | **0.02** | **0.03** | ND | ND |
| EVE Acid | **0.0016** | **0.002** | ND | ND |
| Hydro-EVE Acid | **0.028** | **0.034** | ND | ND |
| R-EVE | **0.014** | **0.017** | ND | ND |
| PES | ND | ND | ND | ND |
| PFECA B | ND | ND | ND | ND |
| PFECA-G | ND | ND | ND | ND |
| **Total Attachment C Mass Discharge**[8,9] | **3.9** | **4.7** | **3.4E-05** | ND |
| **Total Table 3+ Mass Discharge (17 compounds)**[8,10] | **3.9** | **4.8** | **3.4E-05** | ND |
| **Total Table 3+ Mass Discharge (20 Compounds)**[8] | **4.0** | **5.0** | **3.4E-05** | ND |

**TABLE B17-2**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY AFTER REMEDIES - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | 6C | 6D | 6E | 7 |
|---|---|---|---|---|
| Pathway Name | Seep C | Seep D | Lock and Dam Seep | Old Outfall 002 |
| Flow (MG) | 0.04 | 0.18 | 0.01 | 0.76 |
| Instantaneous Flow (ft3/sec) | -- | -- | -- | -- |
| Program | CAP SW Sampling 07/21 | CAP SW Sampling 07/21 | CAP SW Sampling 07/21 | CAP SW Sampling 07/21 |
| Location ID | SEEP-C-EFF | SEEP-D-EFF | Lock-Dam Seep | OLDOF-1 |
| Field Sample ID | CAP0721-SEEP-C-EFF-24-072821 | CAP0721-SEEP-D-EFF-24-072821 | CAP0721-LOCK-DAM-SEEP-072721 | CAP0721-OLDOF-1-24-072821 |
| Sample Date and Time[2] | 7/28/2021 | 7/28/2021 | 7/27/2021 | 7/28/2021 |
| QA/QC | FS | FS | 0 | 0 |
| Sample Matrix | LIQUID | LIQUID | LIQUID | Liquid |
| Sample Delivery Group (SDG) | 320-77002-1 | 320-77002-1 | 320-76991-1 | 320-76991-2 |
| Lab Sample ID | 320-77002-2 | 320-77002-3 | 320-76991-4 | 320-76991-6 |
| Sample Type | Composite | Composite | Grab | Composite |
| ***Table 3+ Lab SOP Mass Discharge[7] (mg/s)*** | | | | |
| HFPO-DA | **1.0E-04** | ND | **3.3E-03** | **0.036** |
| PFMOAA | **6.3E-04** | **1.3E-04** | **0.03** | **0.13** |
| PFO2HxA | **1.6E-04** | **6.0E-05** | **0.01** | **0.05** |
| PFO3OA | **4.6E-05** | ND | **3.9E-03** | **0.01** |
| PFO4DA | **1.2E-05** | ND | **7.5E-04** | **0.01** |
| PFO5DA | ND | ND | **4.7E-05** | **0.002** |
| PMPA | **1.6E-04** | ND | **2.6E-03** | **0.02** |
| PEPA | ND | ND | **8.7E-04** | **0.01** |
| PS Acid | ND | ND | ND | **2.3E-04** |
| Hydro-PS Acid | ND | ND | **4.7E-05** | **1.3E-03** |
| R-PSDA | ND | ND | **2.3E-04** | **1.4E-03** |
| Hydrolyzed PSDA | **6.1E-06** | ND | **2.4E-04** | **2.8E-03** |
| R-PSDCA | ND | ND | **3.9E-06** | ND |
| NVHOS, Acid Form | **5.2E-06** | ND | **3.6E-04** | **0.002** |
| EVE Acid | ND | ND | ND | ND |
| Hydro-EVE Acid | **5.0E-06** | ND | **4.3E-05** | **0.001** |
| R-EVE | ND | ND | **9.5E-05** | **0.001** |
| PES | ND | ND | ND | ND |
| PFECA B | ND | ND | ND | ND |
| PFECA-G | ND | ND | ND | ND |
| **Total Attachment C Mass Discharge[8,9]** | **1.1E-03** | **1.9E-04** | **0.05** | **0.26** |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | **1.1E-03** | **1.9E-04** | **0.05** | **0.26** |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | **1.1E-03** | **1.9E-04** | **0.05** | **0.27** |

**TABLE B17-2**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY AFTER REMEDIES - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| **Pathway Number**[1] | **9** | **Sum of All Pathways - Lower Bound** | **Sum of All Pathways - Upper Bound** | **--** |
|---|---|---|---|---|
| **Pathway Name** | **Georgia Branch Creek** | | | **Tar Heel Ferry Road Bridge**[6] |
| **Flow (MG)** | **5.3** | | | **--** |
| **Instantaneous Flow (ft3/sec)** | **--** | | | **4,220** |
| **Program** | **CAP SW Sampling 07/21** | | | **CAP SW Sampling 07/21** |
| **Location ID** | **GBC-1** | | | **CFR-TARHEEL** |
| **Field Sample ID** | **CAP0721-GBC-1-072721** | | | **CAP0721-CFR-TARHEEL-072821** |
| **Sample Date and Time**[2] | **7/27/2021** | | | **7/28/2021** |
| **QA/QC** | **0** | | | **FS** |
| **Sample Matrix** | **LIQUID** | | | **LIQUID** |
| **Sample Delivery Group (SDG)** | **320-76991-1** | | | **320-76991-1** |
| **Lab Sample ID** | **320-76991-3** | | | **320-76991-5** |
| **Sample Type** | **Grab** | | | **Grab** |
| ***Table 3+ Lab SOP Mass Discharge***[7] ***(mg/s)*** | | | | |
| HFPO-DA | **0.08** | **1.0** | **1.1** | **0.7** |
| PFMOAA | **0.01** | **2.62** | **3.1** | **0.6** |
| PFO2HxA | **0.06** | **1.1** | **1.2** | **0.8** |
| PFO3OA | **0.01** | **0.32** | **0.37** | ND |
| PFO4DA | **0.003** | **0.32** | **0.37** | ND |
| PFO5DA | ND | **0.09** | **0.11** | ND |
| PMPA | **0.12** | **1.3** | **1.3** | **3.5** |
| PEPA | **0.03** | **0.12** | **0.13** | ND |
| PS Acid | ND | **0.01** | **0.02** | ND |
| Hydro-PS Acid | **0.004** | **0.05** | **0.06** | ND |
| R-PSDA | **0.01** | **0.36** | **0.37** | ND |
| Hydrolyzed PSDA | ND | **0.18** | **0.19** | **0.4** |
| R-PSDCA | ND | **0.00** | **0.00** | ND |
| NVHOS, Acid Form | **0.001** | **0.23** | **0.24** | **0.50** |
| EVE Acid | ND | **0.00** | **0.00** | ND |
| Hydro-EVE Acid | ND | **0.03** | **0.04** | ND |
| R-EVE | **0.004** | **0.03** | **0.04** | ND |
| PES | ND | **0.00** | **0.00** | ND |
| PFECA B | ND | **0.00** | **0.00** | ND |
| PFECA-G | ND | **0.00** | **0.00** | ND |
| **Total Attachment C Mass Discharge**[8,9] | **0.32** | **7.0** | **7.9** | **5.5** |
| **Total Table 3+ Mass Discharge (17 compounds)**[8,10] | **0.32** | **7.3** | **8.2** | **6.0** |
| **Total Table 3+ Mass Discharge (20 Compounds)**[8] | **0.32** | **8.2** | **9.1** | **6.5** |

**TABLE B17-2**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY AFTER REMEDIES - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| **Pathway Number**[1] | -- | -- | -- |
|---|---|---|---|
| **Pathway Name** | **Tar Heel Ferry Road Bridge** | **Bladen Bluff**[6] | **Kings Bluff** |
| **Flow (MG)** | **1710** | -- | -- |
| **Instantaneous Flow (ft3/sec)** | -- | **2,640** | **3,070** |
| **Program** | **CAP SW Sampling 07/21** | **CAP SW Sampling 07/21** | **CAP SW Sampling 07/21** |
| **Location ID** | **CFR-TARHEEL** | **CFR-BLADEN** | **CFR-KINGS** |
| **Field Sample ID** | **CAP0721-CFR-TARHEEL-24-072821** | **CAP0721-CFR-BLADEN-072721** | **CAP0721-CFR-KINGS-073021** |
| **Sample Date and Time**[2] | **7/28/2021** | **7/27/2021** | **7/30/2021** |
| **QA/QC** | **0** | **0** | **0** |
| **Sample Matrix** | **Liquid** | **LIQUID** | **LIQUID** |
| **Sample Delivery Group (SDG)** | **320-77167-1** | **320-76991-1** | **320-77167-1** |
| **Lab Sample ID** | **320-77167-1** | **320-76991-2** | **320-77167-3** |
| **Sample Type** | **Composite** | **Grab** | **Grab** |
| ***Table 3+ Lab SOP Mass Discharge***[7] ***(mg/s)*** | | | |
| HFPO-DA | **0.7** | **1.1** | **1.04** |
| PFMOAA | **0.7** | **0.8** | **1.4** |
| PFO2HxA | **0.7** | **1.1** | **1.3** |
| PFO3OA | **0.19** | **0.28** | **0.31** |
| PFO4DA | ND | ND | ND |
| PFO5DA | ND | ND | ND |
| PMPA | **2.2** | **3.3** | **2.78** |
| PEPA | ND | ND | ND |
| PS Acid | ND | ND | ND |
| Hydro-PS Acid | ND | ND | ND |
| R-PSDA | **0.7** | **0.52** | **0.72** |
| Hydrolyzed PSDA | **0** | **0.5** | **0.6** |
| R-PSDCA | ND | ND | ND |
| NVHOS, Acid Form | **0.41** | **0.20** | **0.33** |
| EVE Acid | ND | **0.150** | ND |
| Hydro-EVE Acid | ND | ND | ND |
| R-EVE | ND | **0.329** | **0.39** |
| PES | ND | ND | ND |
| PFECA B | ND | ND | ND |
| PFECA-G | ND | ND | ND |
| **Total Attachment C Mass Discharge**[8,9] | **4.5** | **6.7** | **6.9** |
| **Total Table 3+ Mass Discharge (17 compounds)**[8,10] | **4.9** | **7.0** | **7.1** |
| **Total Table 3+ Mass Discharge (20 Compounds)**[8] | **5.9** | **8.2** | **8.7** |

***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 Appendix F and Cape Fear River PFAS Mass Loading Calculation Protocol Version 2 (Geosyntec, 2020d).

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 July 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 Appendix E. 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 Appendix E.

6 - 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.

7 - Mass discharge by analyte is calculated based on Table 3+ concentrations in Tables A2 and A5 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 A2 and Table A5, 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/s - milligrams per second

ND - Analyte not detected above associated reporting limit.

**TABLE B18-1**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY BEFORE REMEDIES - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | 1 | 2 | 4 | 4A |
|---|---|---|---|---|
| Pathway Name | Upstream River Water and Groundwater | Willis Creek | Outfall 002[3] | Stormwater Treatment System[4] |
| Flow (MG) | 1194 | 8.8 | 12 | 0.10 |
| Instantaneous Flow (ft3/sec) | -- | -- | -- | |
| Program | CAP SW Sampling 08/21 | CAP SW Sampling 08/21 | CAP SW Sampling 08/21 | STS Compliance Sampling |
| Location ID | CFR-MILE-76 | WC-1 | OUTFALL 002 | STS INFLUENT |
| Field Sample ID | CAP0821-CFR-RM-76-081821 | CAP0821-WC-1-24-081921 | CAP0821-OUTFALL-002-24-082021 | STS Influent-081821 |
| Sample Date and Time[2] | 8/18/2021 | 8/19/2021 | 8/20/2021 | 8/18/2021 |
| QA/QC | 0 | FS | FS | FS |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-78260-2 | 320-78253-1 | 320-68081-1 | 410-52084-1 |
| Lab Sample ID | 320-78260-4 | 320-78253-1 | 320-68081-2 | 410-52084-1 |
| Sample Type | Grab | Composite | Composite | Composite |
| *Table 3+ Lab SOP Mass Discharge[7] (mg/s)* | | | | |
| HFPO-DA | **0.12** | **0.09** | **0.01** | **0.09976** |
| PFMOAA | ND | **0.14** | **0.006** | **0.02539** |
| PFO2HxA | **0.15** | **0.11** | **0.003** | -- |
| PFO3OA | ND | **0.02** | ND | -- |
| PFO4DA | ND | **0.004** | ND | -- |
| PFO5DA | ND | **0.001** | ND | -- |
| PMPA | ND | **0.11** | **-0.002** | **0.00635** |
| PEPA | ND | **0.03** | ND | -- |
| PS Acid | ND | ND | ND | -- |
| Hydro-PS Acid | ND | **0.004** | ND | -- |
| R-PSDA | ND | **0.03** | **0.00** | -- |
| Hydrolyzed PSDA | ND | **0.07** | ND | -- |
| R-PSDCA | ND | ND | ND | -- |
| NVHOS, Acid Form | ND | **0.003** | **0.000** | -- |
| EVE Acid | ND | ND | ND | -- |
| Hydro-EVE Acid | ND | **0.001** | ND | -- |
| R-EVE | ND | **0.015** | **0.002** | -- |
| PES | ND | ND | ND | -- |
| PFECA B | ND | ND | ND | -- |
| PFECA-G | ND | ND | ND | -- |
| **Total Attachment C Mass Discharge[8,9]** | **0.27** | **0.50** | **0.03** | **0.13** |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | **0.27** | **0.50** | **0.03** | **0.13** |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | **0.27** | **0.62** | **0.04** | **0.13** |

**TABLE B18-1**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY BEFORE REMEDIES - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | 5 | 5 | 6A | 6B |
|---|---|---|---|---|
| Pathway Name | Onsite Groundwater - Lower Bound[5] | Onsite Groundwater - Upper Bound[5] | Seep A | Seep B |
| Flow (MG) | -- | -- | 0.19 | 0.30 |
| Instantaneous Flow (ft3/sec) | -- | -- | -- | -- |
| Program | | | SEEP A FTC | SEEP B FTC |
| Location ID | -- | -- | SEEP-A Influent | SEEP-B Influent |
| Field Sample ID | -- | -- | SEEP-A-INFLUENT-24-082021 | SEEP-B-INFLUENT-24-082021 |
| Sample Date and Time[2] | -- | -- | 8/20/2021 | 8/20/2021 |
| QA/QC | | | FS | FS |
| Sample Matrix | | | Liquid | LIQUID |
| Sample Delivery Group (SDG) | | | 320-78111-1 | 320-78111-1 |
| Lab Sample ID | | | 320-78111-1 | 320-78111-7 |
| Sample Type | -- | -- | Composite | Composite |
| *Table 3+ Lab SOP Mass Discharge[7] (mg/s)* | | | | |
| HFPO-DA | 0.45 | 0.48 | 0.20 | 0.54 |
| PFMOAA | 2.5 | 2.7 | 0.65 | 1.0 |
| PFO2HxA | 0.79 | 0.86 | 0.27 | 0.34 |
| PFO3OA | 0.41 | 0.42 | 0.09 | 0.09 |
| PFO4DA | 0.49 | 0.49 | 0.05 | 0.03 |
| PFO5DA | 0.142 | 0.14 | 0.03 | 0.009 |
| PMPA | 0.22 | 0.23 | 0.18 | 0.65 |
| PEPA | 0.07 | 0.07 | 0.05 | 0.26 |
| PS Acid | 0.023 | 0.023 | 0.04 | 0.041 |
| Hydro-PS Acid | 0.063 | 0.063 | 0.01 | 0.020 |
| R-PSDA | 0.054 | 0.05 | 0.01 | 0.05 |
| Hydrolyzed PSDA | 0.13 | 0.13 | 0.16 | 0.38 |
| R-PSDCA | 0.0043 | 0.0043 | 0.000 | 0.001 |
| NVHOS, Acid Form | 0.03 | 0.03 | 0.008 | 0.034 |
| EVE Acid | 0.0027 | 0.003 | 0.007 | 0.049 |
| Hydro-EVE Acid | 0.044 | 0.044 | 0.01 | 0.04 |
| R-EVE | 0.019 | 0.020 | 0.008 | 0.04 |
| PES | 0.00001 | 0.00001 | ND | ND |
| PFECA B | ND | ND | ND | ND |
| PFECA-G | ND | ND | ND | ND |
| **Total Attachment C Mass Discharge[8,9]** | **5.1** | **5.4** | **1.6** | **3.0** |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | **5.1** | **5.4** | **1.6** | **3.2** |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | **5.3** | **5.7** | **1.8** | **3.6** |

**TABLE B18-1**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY BEFORE REMEDIES - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | 6C | 6D | 6E | 6F |
|---|---|---|---|---|
| Pathway Name | Seep C | Seep D | Lock and Dam Seep | Lock-Dam North |
| Flow (MG) | 0.06 | 0.37 | 0.02 | 6.61E-04 |
| Instantaneous Flow (ft3/sec) | -- | -- | -- | |
| Program | SEEP C FTC | SEEP D FTC | CAP SW Sampling 08/21 | CAP SW Sampling 08/21 |
| Location ID | SEEP-C INFLUENT | SEEP-D INFLUENT | Lock-Dam Seep | Lock-Dam North |
| Field Sample ID | SEEP-C-INFLUENT-24-082021 | SEEP-D-INFLUENT-24-082021 | CAP0821-LOCK-DAM-SEEP-081821 | CAP0821-LOCK-DAM-NORTH-081821 |
| Sample Date and Time[2] | 8/20/2021 | 8/20/2021 | 8/18/2021 | 8/18/2021 |
| QA/QC | FS | FS | 0 | 0 |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-78111-1 | 320-78111-1 | 320-78260-1 | 320-78260-1 |
| Lab Sample ID | 320-78111-3 | 320-78111-5 | 320-78260-1 | 320-78260-2 |
| Sample Type | Composite | Composite | Grab | Grab |
| *Table 3+ Lab SOP Mass Discharge[7] (mg/s)* | | | | |
| HFPO-DA | 0.04 | 0.21 | 0.006 | 5.21E-05 |
| PFMOAA | 0.15 | 0.97 | 0.06 | 2.32E-05 |
| PFO2HxA | 0.05 | 0.29 | 0.02 | 4.34E-05 |
| PFO3OA | 0.02 | 0.09 | 0.01 | 7.81E-06 |
| PFO4DA | 0.01 | 0.03 | 0.002 | 2.46E-06 |
| PFO5DA | 0.00 | 0.00 | 0.0001 | 3.18E-07 |
| PMPA | 0.02 | 0.11 | 0.006 | 7.24E-05 |
| PEPA | 0.01 | 0.03 | 0.002 | 2.29E-05 |
| PS Acid | ND | ND | ND | ND |
| Hydro-PS Acid | 0.00 | 0.00 | 0.000 | 2.32E-06 |
| R-PSDA | 0.001 | 0.01 | 0.001 | 3.47E-06 |
| Hydrolyzed PSDA | 0.002 | 0.02 | 0.001 | ND |
| R-PSDCA | 0.000 | ND | ND | ND |
| NVHOS, Acid Form | 0.002 | 0.010 | 0.001 | 6.37E-07 |
| EVE Acid | ND | ND | ND | ND |
| Hydro-EVE Acid | 0.003 | 0.02 | 0.0001 | 2.89E-07 |
| R-EVE | 0.001 | 0.01 | 0.0002 | 1.79E-06 |
| PES | 0.000 | ND | ND | ND |
| PFECA B | ND | ND | ND | ND |
| PFECA-G | ND | ND | ND | ND |
| **Total Attachment C Mass Discharge[8,9]** | 0.30 | 1.8 | 0.10 | 2.26E-04 |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | 0.30 | 1.8 | 0.10 | 2.29E-04 |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | 0.30 | 1.8 | 0.10 | 2.34E-04 |

**TABLE B18-1**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY BEFORE REMEDIES - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | 7 | 9 | Sum of All Pathways - Lower Bound |
|---|---|---|---|
| Pathway Name | Old Outfall 002 | Georgia Branch Creek | |
| Flow (MG) | 0.94 | 4.4 | |
| Instantaneous Flow (ft3/sec) | -- | -- | |
| Program | Old Outfall 002 Treatment System | CAP SW Sampling 08/21 | |
| Location ID | Old Outfall 002 Influent | GBC-1 | |
| Field Sample ID | Influent-0821 | CAP0821-GBC-1-081821 | |
| Sample Date and Time[2] | 8/3/2021 | 8/18/2021 | |
| QA/QC | FS | 0 | |
| Sample Matrix | LIQUID | LIQUID | |
| Sample Delivery Group (SDG) | 410-49879-1 | 320-78260-2 | |
| Lab Sample ID | 410-49879-1 | 320-78260-3 | |
| Sample Type | Composite | Grab | |
| ***Table 3+ Lab SOP Mass Discharge[7] (mg/s)*** | | | |
| HFPO-DA | **0.21** | **0.09** | **2.1** |
| PFMOAA | **1.53** | **0.02** | **7.1** |
| PFO2HxA | **0.41** | **0.06** | **2.5** |
| PFO3OA | **0.12** | **0.010** | **0.86** |
| PFO4DA | **0.05** | **0.004** | **0.66** |
| PFO5DA | **0.02** | **0.001** | **0.21** |
| PMPA | **0.15** | **0.12** | **1.6** |
| PEPA | **0.05** | **0.04** | **0.54** |
| PS Acid | **0.02** | ND | **0.12** |
| Hydro-PS Acid | **0.01** | **0.007** | **0.12** |
| R-PSDA | **0.02** | **0.007** | **0.19** |
| Hydrolyzed PSDA | **0.04** | ND | **0.81** |
| R-PSDCA | **0.0004** | ND | **0.01** |
| NVHOS, Acid Form | **0.02** | **0.001** | **0.11** |
| EVE Acid | **0.001** | ND | **0.06** |
| Hydro-EVE Acid | **0.006** | **0.000** | **0.12** |
| R-EVE | **0.006** | **0.003** | **0.11** |
| PES | ND | ND | **0.00** |
| PFECA B | ND | ND | **0.00** |
| PFECA-G | ND | ND | **0.00** |
| **Total Attachment C Mass Discharge[8,9]** | **2.6** | **0.34** | **15.8** |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | **2.6** | **0.34** | **15.9** |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | **2.6** | **0.34** | **16.9** |

**TABLE B18-1**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY BEFORE REMEDIES - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| | | | |
|---|---|---|---|
| **Pathway Number[1]** | **Sum of All Pathways - Upper Bound** | **--** | **--** |
| **Pathway Name** | | **Tar Heel Ferry Road Bridge[6]** | **Tar Heel Ferry Road Bridge** |
| **Flow (MG)** | | **--** | **1,780** |
| **Instantaneous Flow (ft3/sec)** | | **2,270** | **--** |
| **Program** | | **CAP SW Sampling 08/21** | **CAP SW Sampling 08/21** |
| **Location ID** | | **CFR-TARHEEL** | **CFR-TARHEEL** |
| **Field Sample ID** | | **CAP0821-CFR-TARHEEL-081921** | **CAP0821-CFR-TARHEEL-24-082021** |
| **Sample Date and Time[2]** | | **8/19/2021** | **8/20/2021** |
| **QA/QC** | | **FS** | **0** |
| **Sample Matrix** | | **LIQUID** | **Liquid** |
| **Sample Delivery Group (SDG)** | | **320-78260-2** | **320-78262-2** |
| **Lab Sample ID** | | **320-78260-5** | **320-78262-1** |
| **Sample Type** | | **Grab** | **Composite** |
| ***Table 3+ Lab SOP Mass Discharge[7] (mg/s)*** | | | |
| HFPO-DA | **2.0** | **0.96** | **1.01** |
| PFMOAA | **7.2** | **1.8** | **1.72** |
| PFO2HxA | **2.6** | **1.09** | **1.09** |
| PFO3OA | **0.87** | **0.28** | **0.21** |
| PFO4DA | **0.66** | ND | ND |
| PFO5DA | **0.21** | ND | ND |
| PMPA | **1.6** | **1.2** | **1.2** |
| PEPA | **0.54** | ND | ND |
| PS Acid | **0.12** | ND | ND |
| Hydro-PS Acid | **0.12** | ND | ND |
| R-PSDA | **0.19** | **0.40** | ND |
| Hydrolyzed PSDA | **0.81** | **0.71** | ND |
| R-PSDCA | **0.01** | ND | ND |
| NVHOS, Acid Form | **0.11** | **0.44** | ND |
| EVE Acid | **0.06** | ND | ND |
| Hydro-EVE Acid | **0.12** | ND | ND |
| R-EVE | **0.11** | ND | ND |
| PES | **0.00** | ND | ND |
| PFECA B | **0.00** | ND | ND |
| PFECA-G | **0.00** | ND | ND |
| **Total Attachment C Mass Discharge[8,9]** | **16.0** | **5.3** | **5.2** |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | **16.1** | **5.7** | **5.2** |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | **17.1** | **7.1** | **5.2** |

**TABLE B18-1**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY BEFORE REMEDIES - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | -- | -- |
|---|---|---|
| Pathway Name | Bladen Bluff[6] | Kings Bluff |
| Flow (MG) | -- | -- |
| Instantaneous Flow (ft3/sec) | 2,330 | 3,720 |
| Program | CAP SW Sampling 08/21 | CAP SW Sampling 08/21 |
| Location ID | CFR-BLADEN | CFR-KINGS |
| Field Sample ID | CAP0821-CFR-BLADEN-081921 | CAP0821-CFR-KINGS-082521 |
| Sample Date and Time[2] | 8/19/2021 | 8/25/2021 |
| QA/QC | 0 | 0 |
| Sample Matrix | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-78262-1 | 320-78262-1 |
| Lab Sample ID | 320-78262-5 | 320-78262-4 |
| Sample Type | Grab | Grab |
| *Table 3+ Lab SOP Mass Discharge[7] (mg/s)* | | |
| HFPO-DA | **0.86** | **0.44** |
| PFMOAA | **1.6** | **1.4** |
| PFO2HxA | **0.99** | **0.66** |
| PFO3OA | **0.27** | ND |
| PFO4DA | ND | ND |
| PFO5DA | ND | ND |
| PMPA | **1.1** | ND |
| PEPA | ND | ND |
| PS Acid | ND | ND |
| Hydro-PS Acid | ND | ND |
| R-PSDA | **1.19** | **1.16** |
| Hydrolyzed PSDA | **1.25** | **0.63** |
| R-PSDCA | ND | ND |
| NVHOS, Acid Form | **0.44** | **0.44** |
| EVE Acid | ND | ND |
| Hydro-EVE Acid | ND | ND |
| R-EVE | **0.271** | **0.55** |
| PES | ND | ND |
| PFECA B | ND | ND |
| PFECA-G | ND | ND |
| **Total Attachment C Mass Discharge[8,9]** | **4.8** | **2.5** |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | **5.3** | **2.9** |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | **7.9** | **5.3** |

***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 Appendix F and Cape Fear River PFAS Mass Loading Calculation Protocol Version 2 (Geosyntec, 2020d).

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. When stormwater is being treated by the stormwater treatment system, HFPO-DA, PFMOAA, and PMPA concentrations are measured in the stormwater treatment system influent and effluent flows. The mass loads reported here are the sum of these 3 compounds in the stormwater treatment system influent flow.

5 - Mass discharge for Onsite Groundwater (Pathway 5) is determined using calculations described in Appendix E. 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 Appendix E.

6 - Mass discharge values for grab samples collected at Tar Heel Ferry Road Bridge and Bladen Bluff are determined based on instantaneous flow rates.

7 - Mass discharge by analyte is calculated based on Table 3+ concentrations in Tables A2 and A5and 24-hour flow volumes reported in Table A3.

8 - Total PFAS mass discharge is based on the summed Total PFAS concentrations reported in Table A2 and Table A5, which are rounded to two significant figures.

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

10 - Total Table 3+ (17 compounds) does not include 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.

**TABLE B18-2**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY AFTER REMEDIES - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | 1 | 2 | 4 | 4A |
|---|---|---|---|---|
| Pathway Name | Upstream River Water and Groundwater | Willis Creek | Outfall 002[3] | Stormwater Treatment System[4] |
| Flow (MG) | 1194 | 8.8 | 12 | 0.10 |
| Instantaneous Flow (ft3/sec) | -- | -- | -- | |
| Program | CAP SW Sampling 08/21 | CAP SW Sampling 08/21 | CAP SW Sampling 08/21 | STS Compliance Sampling |
| Location ID | CFR-MILE-76 | WC-1 | OUTFALL 002 | STS DISCHARGE |
| Field Sample ID | CAP0821-CFR-RM-76-081821 | CAP0821-WC-1-24-081921 | CAP0821-OUTFALL-002-24-082021 | STS Discharge-081821 |
| Sample Date and Time[2] | 8/18/2021 | 8/19/2021 | 8/20/2021 | 8/18/2021 |
| QA/QC | 0 | FS | FS | FS |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-78260-2 | 320-78253-1 | 320-68081-1 | 410-52084-1 |
| Lab Sample ID | 320-78260-4 | 320-78253-1 | 320-68081-2 | 410-52084-1 |
| Sample Type | Grab | Composite | Composite | Composite |
| *Table 3+ Lab SOP Mass Discharge[7] (mg/s)* | | | | |
| HFPO-DA | **0.12** | **0.09** | **0.01** | ND |
| PFMOAA | ND | **0.14** | **0.006** | ND |
| PFO2HxA | **0.15** | **0.11** | **0.003** | -- |
| PFO3OA | ND | **0.02** | ND | -- |
| PFO4DA | ND | **0.004** | ND | -- |
| PFO5DA | ND | **0.001** | ND | -- |
| PMPA | ND | **0.11** | **-0.002** | ND |
| PEPA | ND | **0.03** | ND | -- |
| PS Acid | ND | ND | ND | -- |
| Hydro-PS Acid | ND | **0.004** | ND | -- |
| R-PSDA | ND | **0.03** | **0.00** | -- |
| Hydrolyzed PSDA | ND | **0.07** | ND | -- |
| R-PSDCA | ND | ND | ND | -- |
| NVHOS, Acid Form | ND | **0.003** | **0.000** | -- |
| EVE Acid | ND | ND | ND | -- |
| Hydro-EVE Acid | ND | **0.001** | ND | -- |
| R-EVE | ND | **0.015** | **0.002** | -- |
| PES | ND | ND | ND | -- |
| PFECA B | ND | ND | ND | -- |
| PFECA-G | ND | ND | ND | -- |
| **Total Attachment C Mass Discharge[8,9]** | **0.27** | **0.50** | **0.03** | ND |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | **0.27** | **0.50** | **0.03** | ND |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | **0.27** | **0.62** | **0.04** | ND |

**TABLE B18-2**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY AFTER REMEDIES - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | 5 | 5 | 6A | 6B |
|---|---|---|---|---|
| Pathway Name | Onsite Groundwater - Lower Bound[5] | Onsite Groundwater - Upper Bound[5] | Seep A | Seep B |
| Flow (MG) | -- | -- | 0.19 | 0.30 |
| Instantaneous Flow (ft3/sec) | -- | -- | -- | -- |
| Program | | | CAP SW Sampling 08/21 | CAP SW Sampling 08/21 |
| Location ID | -- | -- | SEEP-A-EFF | SEEP-B-EFF |
| Field Sample ID | -- | -- | SEEP-A-EFFLUENT-24-082021 | CAP0821-SEEP-B-EFF-24-082021 |
| Sample Date and Time[2] | -- | -- | 8/20/2021 | 8/20/2021 |
| QA/QC | | | 0 | FS |
| Sample Matrix | | | Liquid | LIQUID |
| Sample Delivery Group (SDG) | | | 320-78111-1 | 320-78252-1 |
| Lab Sample ID | | | 320-78111-2 | 320-78252-2 |
| Sample Type | -- | -- | Composite | Composite |
| *Table 3+ Lab SOP Mass Discharge[7] (mg/s)* | | | | |
| HFPO-DA | 0.45 | 0.48 | 5.5E-05 | 4.8E-05 |
| PFMOAA | 2.5 | 2.7 | 2.3E-04 | 3.8E-05 |
| PFO2HxA | 0.79 | 0.86 | 8.5E-05 | 2.8E-05 |
| PFO3OA | 0.41 | 0.42 | ND | ND |
| PFO4DA | 0.49 | 0.49 | ND | ND |
| PFO5DA | 0.142 | 0.14 | ND | ND |
| PMPA | 0.22 | 0.23 | ND | ND |
| PEPA | 0.07 | 0.07 | ND | ND |
| PS Acid | 0.023 | 0.023 | ND | ND |
| Hydro-PS Acid | 0.063 | 0.063 | ND | ND |
| R-PSDA | 0.054 | 0.05 | ND | ND |
| Hydrolyzed PSDA | 0.13 | 0.13 | 1.9E-05 | ND |
| R-PSDCA | 0.0043 | 0.0043 | ND | ND |
| NVHOS, Acid Form | 0.03 | 0.03 | ND | ND |
| EVE Acid | 0.0027 | 0.003 | ND | ND |
| Hydro-EVE Acid | 0.044 | 0.044 | ND | ND |
| R-EVE | 0.019 | 0.020 | ND | ND |
| PES | 0.00001 | 0.00001 | ND | ND |
| PFECA B | ND | ND | ND | ND |
| PFECA-G | ND | ND | ND | ND |
| **Total Attachment C Mass Discharge[8,9]** | **5.1** | **5.4** | **3.7E-04** | **1.1E-04** |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | **5.1** | **5.4** | **3.7E-04** | **1.1E-04** |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | **5.3** | **5.7** | **3.9E-04** | **1.1E-04** |

**TABLE B18-2**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY AFTER REMEDIES - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | 6C | 6D | 6E | 6F |
|---|---|---|---|---|
| Pathway Name | Seep C | Seep D | Lock and Dam Seep | Lock-Dam North |
| Flow (MG) | 0.06 | 0.37 | 0.02 | 6.61E-04 |
| Instantaneous Flow (ft3/sec) | -- | -- | -- | |
| Program | CAP SW Sampling 08/21 | CAP SW Sampling 08/21 | CAP SW Sampling 08/21 | CAP SW Sampling 08/21 |
| Location ID | SEEP-C-EFF | SEEP-D-EFF | Lock-Dam Seep | Lock-Dam North |
| Field Sample ID | SEEP-C-EFFLUENT-24-082021 | CAP0821-SEEP-D-EFF-24-081921 | CAP0821-LOCK-DAM-SEEP-081821 | CAP0821-LOCK-DAM-NORTH-081821 |
| Sample Date and Time[2] | 8/20/2021 | 8/19/2021 | 8/18/2021 | 8/18/2021 |
| QA/QC | FS | FS | 0 | 0 |
| Sample Matrix | LIQUID | LIQUID | LIQUID | LIQUID |
| Sample Delivery Group (SDG) | 320-78111-1 | 320-78252-1 | 320-78260-1 | 320-78260-1 |
| Lab Sample ID | 320-78111-4 | 320-78252-4 | 320-78260-1 | 320-78260-2 |
| Sample Type | Composite | Composite | Grab | Grab |
| *Table 3+ Lab SOP Mass Discharge[7] (mg/s)* | | | | |
| HFPO-DA | **1.62E-05** | **6.64E-05** | **0.006** | **5.21E-05** |
| PFMOAA | **1.49E-04** | **1.62E-04** | **0.06** | **2.32E-05** |
| PFO2HxA | **2.53E-05** | **8.42E-05** | **0.02** | **4.34E-05** |
| PFO3OA | ND | ND | **0.01** | **7.81E-06** |
| PFO4DA | ND | ND | **0.002** | **2.46E-06** |
| PFO5DA | ND | ND | **0.0001** | **3.18E-07** |
| PMPA | **4.3E-05** | ND | **0.006** | **7.24E-05** |
| PEPA | ND | ND | **0.002** | **2.29E-05** |
| PS Acid | ND | ND | ND | ND |
| Hydro-PS Acid | ND | ND | **0.000** | **2.32E-06** |
| R-PSDA | ND | ND | **0.001** | **3.47E-06** |
| Hydrolyzed PSDA | ND | ND | **0.001** | ND |
| R-PSDCA | ND | ND | ND | ND |
| NVHOS, Acid Form | ND | ND | **0.001** | **6.37E-07** |
| EVE Acid | ND | ND | ND | ND |
| Hydro-EVE Acid | ND | ND | **0.0001** | **2.89E-07** |
| R-EVE | ND | ND | **0.0002** | **1.79E-06** |
| PES | ND | ND | ND | ND |
| PFECA B | ND | ND | ND | ND |
| PFECA-G | ND | ND | ND | ND |
| **Total Attachment C Mass Discharge[8,9]** | **2.3E-04** | **3.1E-04** | **0.10** | **2.26E-04** |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | **2.3E-04** | **3.1E-04** | **0.10** | **2.29E-04** |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | **2.3E-04** | **3.1E-04** | **0.10** | **2.34E-04** |

**TABLE B18-2**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY AFTER REMEDIES - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | 7 | 9 | Sum of All Pathways - Lower Bound |
|---|---|---|---|
| Pathway Name | Old Outfall 002 | Georgia Branch Creek | |
| Flow (MG) | 0.94 | 4.4 | |
| Instantaneous Flow (ft3/sec) | -- | -- | |
| Program | CAP SW Sampling 08/21 | CAP SW Sampling 08/21 | |
| Location ID | OLDOF-1 | GBC-1 | |
| Field Sample ID | CAP0821-OLDOF-1-24-081921 | CAP0821-GBC-1-081821 | |
| Sample Date and Time[2] | 8/19/2021 | 8/18/2021 | |
| QA/QC | 0 | 0 | |
| Sample Matrix | Liquid | LIQUID | |
| Sample Delivery Group (SDG) | 320-78253-1 | 320-78260-2 | |
| Lab Sample ID | 320-78253-2 | 320-78260-3 | |
| Sample Type | Composite | Grab | |
| ***Table 3+ Lab SOP Mass Discharge*** [7] ***(mg/s)*** | | | |
| HFPO-DA | **0.020** | **0.09** | **0.8** |
| PFMOAA | **0.06** | **0.02** | **2.8** |
| PFO2HxA | **0.029** | **0.06** | **1.2** |
| PFO3OA | **0.009** | **0.010** | **0.46** |
| PFO4DA | **0.004** | **0.004** | **0.50** |
| PFO5DA | **0.001** | **0.001** | **0.15** |
| PMPA | **0.01** | **0.12** | **0.5** |
| PEPA | **0.005** | **0.04** | **0.14** |
| PS Acid | **0.000** | ND | **0.02** |
| Hydro-PS Acid | **0.001** | **0.007** | **0.07** |
| R-PSDA | **0.001** | **0.007** | **0.10** |
| Hydrolyzed PSDA | **0.003** | ND | **0.21** |
| R-PSDCA | ND | ND | **0.00** |
| NVHOS, Acid Form | **0.001** | **0.001** | **0.04** |
| EVE Acid | ND | ND | **0.00** |
| Hydro-EVE Acid | **0.000** | **0.000** | **0.05** |
| R-EVE | **0.000** | **0.003** | **0.04** |
| PES | ND | ND | **6.5E-06** |
| PFECA B | ND | ND | **0.00** |
| PFECA-G | ND | ND | **0.00** |
| **Total Attachment C Mass Discharge**[8,9] | **0.14** | **0.34** | **6.5** |
| **Total Table 3+ Mass Discharge (17 compounds)**[8,10] | **0.15** | **0.34** | **6.5** |
| **Total Table 3+ Mass Discharge (20 Compounds)**[8] | **0.15** | **0.34** | **6.9** |

**TABLE B18-2**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY AFTER REMEDIES - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| | | | |
|---|---|---|---|
| **Pathway Number[1]** | **Sum of All Pathways - Upper Bound** | **--** | **--** |
| **Pathway Name** | | **Tar Heel Ferry Road Bridge[6]** | **Tar Heel Ferry Road Bridge** |
| **Flow (MG)** | | **--** | **1,780** |
| **Instantaneous Flow (ft3/sec)** | | **2,270** | **--** |
| **Program** | | **CAP SW Sampling 08/21** | **CAP SW Sampling 08/21** |
| **Location ID** | | **CFR-TARHEEL** | **CFR-TARHEEL** |
| **Field Sample ID** | | **CAP0821-CFR-TARHEEL-081921** | **CAP0821-CFR-TARHEEL-24-082021** |
| **Sample Date and Time[2]** | | **8/19/2021** | **8/20/2021** |
| **QA/QC** | | **FS** | **0** |
| **Sample Matrix** | | **LIQUID** | **Liquid** |
| **Sample Delivery Group (SDG)** | | **320-78260-2** | **320-78262-2** |
| **Lab Sample ID** | | **320-78260-5** | **320-78262-1** |
| **Sample Type** | | **Grab** | **Composite** |
| ***Table 3+ Lab SOP Mass Discharge[7] (mg/s)*** | | | |
| HFPO-DA | **0.8** | **0.96** | **1.01** |
| PFMOAA | **3.0** | **1.8** | **1.72** |
| PFO2HxA | **1.2** | **1.09** | **1.09** |
| PFO3OA | **0.47** | **0.28** | **0.21** |
| PFO4DA | **0.50** | ND | ND |
| PFO5DA | **0.14** | ND | ND |
| PMPA | **0.5** | **1.2** | **1.2** |
| PEPA | **0.14** | ND | ND |
| PS Acid | **0.02** | ND | ND |
| Hydro-PS Acid | **0.07** | ND | ND |
| R-PSDA | **0.10** | **0.40** | ND |
| Hydrolyzed PSDA | **0.21** | **0.71** | ND |
| R-PSDCA | **0.00** | ND | ND |
| NVHOS, Acid Form | **0.04** | **0.44** | ND |
| EVE Acid | **0.00** | ND | ND |
| Hydro-EVE Acid | **0.05** | ND | ND |
| R-EVE | **0.04** | ND | ND |
| PES | **9.6E-06** | ND | ND |
| PFECA B | **0.00** | ND | ND |
| PFECA-G | **0.00** | ND | ND |
| **Total Attachment C Mass Discharge[8,9]** | **6.8** | **5.3** | **5.2** |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | **6.8** | **5.7** | **5.2** |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | **7.2** | **7.1** | **5.2** |

**TABLE B18-2**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY AFTER REMEDIES - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | -- | -- |
|---|---|---|
| **Pathway Name** | **Bladen Bluff[6]** | **Kings Bluff** |
| **Flow (MG)** | -- | -- |
| **Instantaneous Flow (ft3/sec)** | **2,330** | **3,720** |
| **Program** | **CAP SW Sampling 08/21** | **CAP SW Sampling 08/21** |
| **Location ID** | **CFR-BLADEN** | **CFR-KINGS** |
| **Field Sample ID** | **CAP0821-CFR-BLADEN-081921** | **CAP0821-CFR-KINGS-082521** |
| **Sample Date and Time[2]** | **8/19/2021** | **8/25/2021** |
| **QA/QC** | **0** | **0** |
| **Sample Matrix** | **LIQUID** | **LIQUID** |
| **Sample Delivery Group (SDG)** | **320-78262-1** | **320-78262-1** |
| **Lab Sample ID** | **320-78262-5** | **320-78262-4** |
| **Sample Type** | **Grab** | **Grab** |
| ***Table 3+ Lab SOP Mass Discharge[7] (mg/s)*** | | |
| HFPO-DA | **0.86** | **0.44** |
| PFMOAA | **1.6** | **1.4** |
| PFO2HxA | **0.99** | **0.66** |
| PFO3OA | **0.27** | ND |
| PFO4DA | ND | ND |
| PFO5DA | ND | ND |
| PMPA | **1.1** | ND |
| PEPA | ND | ND |
| PS Acid | ND | ND |
| Hydro-PS Acid | ND | ND |
| R-PSDA | **1.19** | **1.16** |
| Hydrolyzed PSDA | **1.25** | **0.63** |
| R-PSDCA | ND | ND |
| NVHOS, Acid Form | **0.44** | **0.44** |
| EVE Acid | ND | ND |
| Hydro-EVE Acid | ND | ND |
| R-EVE | **0.271** | **0.55** |
| PES | ND | ND |
| PFECA B | ND | ND |
| PFECA-G | ND | ND |
| **Total Attachment C Mass Discharge[8,9]** | **4.8** | **2.5** |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | **5.3** | **2.9** |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | **7.9** | **5.3** |

***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 Appendix F and Cape Fear River PFAS Mass Loading Calculation Protocol Version 2 (Geosyntec, 2020d).

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. When stormwater is being treated by the stormwater treatment system, HFPO-DA, PFMOAA, and PMPA concentrations are measured in the stormwater treatment system influent and effluent flows. The concentrations and mass loads reported here are the sum of these 3 compounds in the stormwater treatment system effluent flow.

5 - Mass discharge for Onsite Groundwater (Pathway 5) is determined using calculations described in Appendix E. 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 Appendix E.

6 - Mass discharge values for grab samples collected at Tar Heel Ferry Road Bridge and Bladen Bluff are determined based on instantaneous flow rates.

7 - Mass discharge by analyte is calculated based on Table 3+ concentrations in Tables A2 and A5and 24-hour flow volumes reported in Table A3.

8 - Total PFAS mass discharge is based on the summed Total PFAS concentrations reported in Table A2 and Table A5, 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 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.

**TABLE B19-1**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY BEFORE REMEDIES - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | 1 | 2 | 4 | 4A |
|---|---|---|---|---|
| Pathway Name | Upstream River Water and Groundwater | Willis Creek | Outfall 002[3] | Stormwater Treatment System[4] |
| Flow (MG) | 729 | 4.1 | 15 | -- |
| Instantaneous Flow (ft3/sec) | -- | -- | -- | -- |
| Program | CAP SW Sampling 09/21 | CAP SW Sampling 09/21 | CAP SW Sampling 09/21 | STS Compliance Sampling |
| Location ID | CFR-MILE-76 | WC-1 | OUTFALL 002 | STS INFLUENT |
| Field Sample ID | CAP0921-CFR-RM-76-091421 | CAP0921-WC-1-24-091521 | CAP0921-OUTFALL-002-24-091521 | -- |
| Sample Date and Time[2] | 9/14/2021 | 9/15/2021 | 9/15/2021 | -- |
| QA/QC | 0 | FS | FS | -- |
| Sample Matrix | Liquid | LIQUID | LIQUID | -- |
| Sample Delivery Group (SDG) | 320-79067-1 | 320-79065-1 | 320-68081-1 | -- |
| Lab Sample ID | 320-79067-2 | 320-79065-3 | 320-68081-2 | -- |
| Sample Type | Grab | Composite | Composite | -- |
| *Table 3+ Lab SOP Mass Discharge[7] (mg/s)* | | | | |
| HFPO-DA | ND | **0.09** | **3.8E-03** | -- |
| PFMOAA | **0.083** | **0.20** | **2.5E-03** | -- |
| PFO2HxA | ND | **0.12** | **1.9E-03** | -- |
| PFO3OA | ND | **0.02** | **5.1E-04** | -- |
| PFO4DA | ND | **4.7E-03** | ND | -- |
| PFO5DA | ND | **4.5E-04** | ND | -- |
| PMPA | **0.38** | **0.13** | **0** | -- |
| PEPA | ND | **0.035** | ND | -- |
| PS Acid | ND | ND | ND | -- |
| Hydro-PS Acid | ND | **2.9E-03** | ND | -- |
| R-PSDA | **0.24** | **9.1E-03** | **0** | -- |
| Hydrolyzed PSDA | **0.08** | **0.056** | **5.1E-03** | -- |
| R-PSDCA | ND | ND | ND | -- |
| NVHOS, Acid Form | **0.28** | **4.0E-03** | **0.0** | -- |
| EVE Acid | ND | ND | ND | -- |
| Hydro-EVE Acid | ND | **1.6E-03** | ND | -- |
| R-EVE | ND | **4.7E-03** | **-6.4E-05** | -- |
| PES | ND | ND | ND | -- |
| PFECA B | ND | ND | ND | -- |
| PFECA-G | ND | ND | ND | -- |
| **Total Attachment C Mass Discharge[8,9]** | **0.48** | **0.60** | **6.4E-03** | -- |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | **0.77** | **0.62** | **6.4E-03** | -- |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | **1.05** | **0.69** | **0.019** | -- |

**TABLE B19-1**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY BEFORE REMEDIES - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | 5 | 5 | 6A | 6B |
|---|---|---|---|---|
| Pathway Name | Onsite Groundwater - Lower Bound[5] | Onsite Groundwater - Upper Bound[5] | Seep A | Seep B |
| Flow (MG) | -- | -- | 0.19 | 0.18 |
| Instantaneous Flow (ft3/sec) | -- | -- | -- | -- |
| Program | | | Seep-A FTC | Seep-B FTC |
| Location ID | -- | -- | SEEP-A Influent | SEEP-B Influent |
| Field Sample ID | -- | -- | SEEP-A-INFLUENT-336-091421 | SEEP-B-INFLUENT-210-090921 |
| Sample Date and Time[2] | -- | -- | 9/14/2021 | 9/9/2021 |
| QA/QC | | | FS | FS |
| Sample Matrix | | | Liquid | LIQUID |
| Sample Delivery Group (SDG) | | | 320-79069-1 | 320-78765-1 |
| Lab Sample ID | | | 320-79069-1 | 320-78765-1 |
| Sample Type | -- | -- | Composite | Composite |
| *Table 3+ Lab SOP Mass Discharge[7] (mg/s)* | | | | |
| HFPO-DA | 0.41 | 0.51 | 0.21 | 0.16 |
| PFMOAA | 2.05 | 2.70 | 0.64 | 0.71 |
| PFO2HxA | 0.67 | 0.85 | 0.38 | 0.26 |
| PFO3OA | 0.32 | 0.41 | 0.14 | 0.07 |
| PFO4DA | 0.36 | 0.46 | 0.06 | 0.01 |
| PFO5DA | 0.10 | 0.13 | 0.04 | 1.2E-03 |
| PMPA | 0.22 | 0.25 | 0.19 | 0.19 |
| PEPA | 0.07 | 0.08 | 0.07 | 0.08 |
| PS Acid | 0.02 | 0.02 | 0.03 | 4.3E-03 |
| Hydro-PS Acid | 0.05 | 0.06 | 0.01 | 4.8E-03 |
| R-PSDA | 0.04 | 0.05 | 0.02 | 0.03 |
| Hydrolyzed PSDA | 0.10 | 0.12 | 0.22 | 0.25 |
| R-PSDCA | 3.2E-03 | 4.0E-03 | 4.3E-04 | 3.1E-04 |
| NVHOS, Acid Form | 0.03 | 0.03 | 0.01 | 0.01 |
| EVE Acid | 2.0E-03 | 2.5E-03 | 4.2E-03 | 2.6E-03 |
| Hydro-EVE Acid | 0.03 | 0.04 | 0.02 | 0.01 |
| R-EVE | 0.02 | 0.02 | 0.01 | 0.01 |
| PES | 1.9E-05 | 2.9E-05 | ND | ND |
| PFECA B | ND | ND | ND | ND |
| PFECA-G | ND | ND | ND | ND |
| **Total Attachment C Mass Discharge[8,9]** | 4.2 | 5.4 | 1.8 | 1.5 |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | 4.2 | 5.4 | 1.8 | 1.6 |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | 4.4 | 5.7 | 2.0 | 1.8 |

**TABLE B19-1**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY BEFORE REMEDIES - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | 6C | 6D | 6E | 6F |
|---|---|---|---|---|
| Pathway Name | Seep C | Seep D | Lock and Dam Seep | Lock-Dam North |
| Flow (MG) | 0.05 | 0.47 | 0.02 | 9.78E-04 |
| Instantaneous Flow (ft3/sec) | -- | -- | -- | |
| Program | Seep-C FTC | Seep-D FTC | CAP SW Sampling 09/21 | CAP SW Sampling 09/21 |
| Location ID | SEEP-C Influent | SEEP-D Influent | Lock-Dam Seep | Lock-Dam North |
| Field Sample ID | SEEP-C-INFLUENT-336-091421 | SEEP-D-INFLUENT-318-091421 | CAP0921-LOCK-DAM-SEEP-091421 | CAP0921-LOCK-DAM-NORTH-091421 |
| Sample Date and Time[2] | 9/14/2021 | 9/14/2021 | 9/14/2021 | 9/14/2021 |
| QA/QC | FS | FS | 0 | 0 |
| Sample Matrix | LIQUID | LIQUID | Liquid | Liquid |
| Sample Delivery Group (SDG) | 320-79069-1 | 320-79069-1 | 320-79067-1 | 320-79075-1 |
| Lab Sample ID | 320-79069-3 | 320-79069-5 | 320-79067-5 | 320-79075-1 |
| Sample Type | Composite | Composite | Grab | Grab |
| *Table 3+ Lab SOP Mass Discharge[7] (mg/s)* | | | | |
| HFPO-DA | 0.04 | 0.25 | 9.5E-03 | 9.0E-05 |
| PFMOAA | 0.11 | 0.94 | 0.083 | 6.9E-05 |
| PFO2HxA | 0.05 | 0.43 | 0.026 | 6.4E-05 |
| PFO3OA | 0.02 | 0.13 | 0.011 | 1.2E-05 |
| PFO4DA | 0.01 | 0.035 | 2.2E-03 | 4.0E-06 |
| PFO5DA | ND | ND | 8.6E-05 | 6.0E-07 |
| PMPA | 0.02 | 0.14 | 6.0E-03 | 9.0E-05 |
| PEPA | 0.01 | 0.047 | 2.4E-03 | 3.5E-05 |
| PS Acid | ND | ND | ND | ND |
| Hydro-PS Acid | 7.6E-04 | 5.1E-03 | 1.5E-04 | 4.1E-06 |
| R-PSDA | 1.4E-03 | 0.011 | 6.6E-04 | 5.6E-06 |
| Hydrolyzed PSDA | 1.9E-03 | 0.027 | 7.5E-04 | ND |
| R-PSDCA | ND | ND | 9.4E-06 | ND |
| NVHOS, Acid Form | 1.4E-03 | 0.012 | 1.2E-03 | 1.1E-06 |
| EVE Acid | ND | ND | ND | ND |
| Hydro-EVE Acid | 2.7E-03 | 0.018 | 1.4E-04 | 5.6E-07 |
| R-EVE | 1.4E-03 | 0.013 | 2.0E-04 | 2.0E-06 |
| PES | ND | ND | ND | ND |
| PFECA B | ND | ND | ND | ND |
| PFECA-G | ND | ND | ND | ND |
| **Total Attachment C Mass Discharge[8,9]** | 0.27 | 2.0 | 0.14 | 3.7E-04 |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | 0.27 | 2.0 | 0.14 | 3.7E-04 |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | 0.27 | 2.0 | 0.14 | 3.8E-04 |

**TABLE B19-1**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY BEFORE REMEDIES - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| **Pathway Number**[1] | **7** | **9** | **Sum of All Pathways - Lower Bound** |
|---|---|---|---|
| **Pathway Name** | **Old Outfall 002** | **Georgia Branch Creek** | |
| **Flow (MG)** | **1.14** | **2.9** | |
| **Instantaneous Flow (ft3/sec)** | **--** | **--** | |
| **Program** | **Old Outfall 002 Treatment System** | **CAP SW Sampling 09/21** | |
| **Location ID** | **Old Outfall 002 Influent** | **GBC-1** | |
| **Field Sample ID** | **Influent-0921** | **CAP0921-GBC-1-091421** | |
| **Sample Date and Time**[2] | **9/7/2021** | **9/14/2021** | |
| **QA/QC** | **FS** | **0** | |
| **Sample Matrix** | **LIQUID** | **Liquid** | |
| **Sample Delivery Group (SDG)** | **410-54364-1** | **320-79067-1** | |
| **Lab Sample ID** | **410-54364-1** | **320-79067-1** | |
| **Sample Type** | **Composite** | **Grab** | |
| ***Table 3+ Lab SOP Mass Discharge***[7] ***(mg/s)*** | | | |
| HFPO-DA | **0.29** | **0.062** | **1.53** |
| PFMOAA | **1.70** | **0.010** | **6.53** |
| PFO2HxA | **0.45** | **0.047** | **2.45** |
| PFO3OA | **0.12** | **8.3E-03** | **0.84** |
| PFO4DA | **0.055** | **2.6E-03** | **0.54** |
| PFO5DA | **0.028** | **2.6E-04** | **0.18** |
| PMPA | **0.19** | **0.093** | **1.57** |
| PEPA | **0.060** | **0.029** | **0.40** |
| PS Acid | **0.015** | ND | **0.069** |
| Hydro-PS Acid | **0.013** | **2.9E-03** | **0.089** |
| R-PSDA | **0.014** | **3.9E-03** | **0.37** |
| Hydrolyzed PSDA | **0.034** | ND | **0.77** |
| R-PSDCA | **5.0E-04** | ND | **4.4E-03** |
| NVHOS, Acid Form | **0.018** | **4.9E-04** | **0.37** |
| EVE Acid | **1.0E-03** | ND | **9.8E-03** |
| Hydro-EVE Acid | **7.5E-03** | **2.5E-04** | **0.088** |
| R-EVE | **6.0E-03** | **1.8E-03** | **0.066** |
| PES | ND | ND | **1.9E-05** |
| PFECA B | ND | ND | **0** |
| PFECA-G | ND | ND | **0** |
| **Total Attachment C Mass Discharge**[8,9] | **2.9** | **0.25** | **14** |
| **Total Table 3+ Mass Discharge (17 compounds)**[8,10] | **2.9** | **0.25** | **15** |
| **Total Table 3+ Mass Discharge (20 Compounds)**[8] | **3.0** | **0.26** | **16** |

**TABLE B19-1**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY BEFORE REMEDIES - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| **Pathway Number**[1] | **Sum of All Pathways - Upper Bound** | **--** | **--** |
|---|---|---|---|
| **Pathway Name** | | **Tar Heel Ferry Road Bridge**[6] | **Tar Heel Ferry Road Bridge** |
| **Flow (MG)** | | **--** | **680** |
| **Instantaneous Flow (ft3/sec)** | | **1,120** | **--** |
| **Program** | | **CAP SW Sampling 09/21** | **CAP SW Sampling 09/21** |
| **Location ID** | | **CFR-TARHEEL** | **CFR-TARHEEL** |
| **Field Sample ID** | | **CAP0921-CFR-TARHEEL-091521** | **CAP0921-CFR-TARHEEL-24-091521** |
| **Sample Date and Time**[2] | | **9/15/2021** | **9/15/2021** |
| **QA/QC** | | **FS** | **0** |
| **Sample Matrix** | | **LIQUID** | **Liquid** |
| **Sample Delivery Group (SDG)** | | **320-79067-1** | **320-79449-1** |
| **Lab Sample ID** | | **320-79067-4** | **320-79449-1** |
| **Sample Type** | | **Grab** | **Composite** |
| ***Table 3+ Lab SOP Mass Discharge***[7] ***(mg/s)*** | | | |
| HFPO-DA | **1.62** | **0.44** | **0.39** |
| PFMOAA | **7.18** | **1.2** | **1.10** |
| PFO2HxA | **2.64** | **0.67** | **0.54** |
| PFO3OA | **0.93** | **0.16** | **0.13** |
| PFO4DA | **0.64** | ND | ND |
| PFO5DA | **0.20** | ND | ND |
| PMPA | **1.60** | **0.76** | **0.63** |
| PEPA | **0.41** | ND | ND |
| PS Acid | **0.074** | ND | ND |
| Hydro-PS Acid | **0.102** | ND | ND |
| R-PSDA | **0.38** | **0.28** | **0.33** |
| Hydrolyzed PSDA | **0.80** | **0.35** | **0.36** |
| R-PSDCA | **5.3E-03** | ND | ND |
| NVHOS, Acid Form | **0.38** | **0.29** | **0.30** |
| EVE Acid | **1.0E-02** | ND | ND |
| Hydro-EVE Acid | **0.097** | ND | ND |
| R-EVE | **0.070** | **0.10** | **0.074** |
| PES | **2.9E-05** | ND | ND |
| PFECA B | **0** | ND | ND |
| PFECA-G | **0** | ND | ND |
| **Total Attachment C Mass Discharge**[8,9] | **15** | **3.2** | **2.8** |
| **Total Table 3+ Mass Discharge (17 compounds)**[8,10] | **16** | **3.5** | **3.0** |
| **Total Table 3+ Mass Discharge (20 Compounds)**[8] | **17** | **4.4** | **3.9** |

**TABLE B19-1**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY BEFORE REMEDIES - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| **Pathway Number**[1] | -- | -- |
|---|---|---|
| **Pathway Name** | **Bladen Bluff**[6] | **Kings Bluff** |
| **Flow (MG)** | -- | -- |
| **Instantaneous Flow (ft3/sec)** | **1,140** | **1,100** |
| **Program** | **CAP SW Sampling 09/21** | **CAP SW Sampling 09/21** |
| **Location ID** | **CFR-BLADEN** | **CFR-KINGS** |
| **Field Sample ID** | **CAP0921-CFR-BLADEN-091421** | **CAP0921-CFR-KINGS-092121** |
| **Sample Date and Time**[2] | **9/14/2021** | **9/21/2021** |
| **QA/QC** | **0** | **0** |
| **Sample Matrix** | **Liquid** | **LIQUID** |
| **Sample Delivery Group (SDG)** | **320-79067-1** | **320-79449-1** |
| **Lab Sample ID** | **320-79067-3** | **320-79449-2** |
| **Sample Type** | **Grab** | **Grab** |
| ***Table 3+ Lab SOP Mass Discharge***[7] ***(mg/s)*** | | |
| HFPO-DA | **0.36** | **0.28** |
| PFMOAA | **1.03** | **0.87** |
| PFO2HxA | **0.55** | **0.40** |
| PFO3OA | **0.16** | **0.10** |
| PFO4DA | ND | ND |
| PFO5DA | ND | ND |
| PMPA | **0.74** | **0.59** |
| PEPA | ND | ND |
| PS Acid | ND | ND |
| Hydro-PS Acid | ND | ND |
| R-PSDA | **0.25** | **0.23** |
| Hydrolyzed PSDA | **0.29** | **0.22** |
| R-PSDCA | ND | ND |
| NVHOS, Acid Form | **0.32** | **0.22** |
| EVE Acid | ND | ND |
| Hydro-EVE Acid | ND | ND |
| R-EVE | **0.068** | **0.09** |
| PES | ND | ND |
| PFECA B | ND | ND |
| PFECA-G | ND | ND |
| **Total Attachment C Mass Discharge**[8,9] | **2.8** | **2.2** |
| **Total Table 3+ Mass Discharge (17 compounds)**[8,10] | **3.2** | **2.5** |
| **Total Table 3+ Mass Discharge (20 Compounds)**[8] | **3.9** | **3** |

***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 Appendix F and Cape Fear River PFAS Mass Loading Calculation Protocol Version 2 (Geosyntec, 2020d).

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 September 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 Appendix E. 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 Appendix E.

6 - Mass discharge values for grab samples collected at Tar Heel Ferry Road Bridge and Bladen Bluff are determined based on instantaneous flow rates.

7 - Mass discharge by analyte is calculated based on Table 3+ concentrations in Tables A2 and A5and 24-hour flow volumes reported in Table A3.

8 - Total PFAS mass discharge is based on the summed Total PFAS concentrations reported in Table A2 and Table A5, which are rounded to two significant figures.

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

10 - Total Table 3+ (17 compounds) does not include 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.

**TABLE B19-2**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY AFTER REMEDIES - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | 1 | 2 | 4 | 4A |
|---|---|---|---|---|
| Pathway Name | Upstream River Water and Groundwater | Willis Creek | Outfall 002[3] | Stormwater Treatment System[4] |
| Flow (MG) | 729 | 4.1 | 15 | -- |
| Instantaneous Flow (ft3/sec) | -- | -- | -- | -- |
| Program | CAP SW Sampling 09/21 | CAP SW Sampling 09/21 | CAP SW Sampling 09/21 | STS Compliance Sampling |
| Location ID | CFR-MILE-76 | WC-1 | OUTFALL 002 | STS DISCHARGE |
| Field Sample ID | CAP0921-CFR-RM-76-091421 | CAP0921-WC-1-24-091521 | CAP0921-OUTFALL-002-24-091521 | -- |
| Sample Date and Time[2] | 9/14/2021 | 9/15/2021 | 9/15/2021 | -- |
| QA/QC | 0 | FS | FS | -- |
| Sample Matrix | Liquid | LIQUID | LIQUID | -- |
| Sample Delivery Group (SDG) | 320-79067-1 | 320-79065-1 | 320-68081-1 | -- |
| Lab Sample ID | 320-79067-2 | 320-79065-3 | 320-68081-2 | -- |
| Sample Type | Grab | Composite | Composite | -- |
| *Table 3+ Lab SOP Mass Discharge[7] (mg/s)* | | | | |
| HFPO-DA | ND | **0.09** | **3.8E-03** | -- |
| PFMOAA | **0.08** | **0.20** | **0.003** | -- |
| PFO2HxA | ND | **0.12** | **0.002** | -- |
| PFO3OA | ND | **0.02** | **0.001** | -- |
| PFO4DA | ND | **0.005** | ND | -- |
| PFO5DA | ND | **0.000** | ND | -- |
| PMPA | **0.4** | **0.13** | **0** | -- |
| PEPA | ND | **0.03** | ND | -- |
| PS Acid | ND | ND | ND | -- |
| Hydro-PS Acid | ND | **0.003** | ND | -- |
| R-PSDA | **0.24** | **0.01** | **0** | -- |
| Hydrolyzed PSDA | **0.080** | **0.06** | **5.1E-03** | -- |
| R-PSDCA | ND | ND | ND | -- |
| NVHOS, Acid Form | **0.284** | **0.004** | **0.0E+00** | -- |
| EVE Acid | ND | ND | ND | -- |
| Hydro-EVE Acid | ND | **0.002** | ND | -- |
| R-EVE | ND | **0.00** | **-6.4E-05** | -- |
| PES | ND | ND | ND | -- |
| PFECA B | ND | ND | ND | -- |
| PFECA-G | ND | ND | ND | -- |
| **Total Attachment C Mass Discharge[8,9]** | **0.48** | **0.60** | **0.01** | -- |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | **0.77** | **0.62** | **0.01** | -- |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | **1.05** | **0.7** | **0.02** | -- |

**TABLE B19-2**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY AFTER REMEDIES - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | 5 | 5 | 6A | 6B |
|---|---|---|---|---|
| Pathway Name | Onsite Groundwater - Lower Bound[5] | Onsite Groundwater - Upper Bound[5] | Seep A | Seep B |
| Flow (MG) | -- | -- | 0.19 | 0.18 |
| Instantaneous Flow (ft3/sec) | -- | -- | -- | -- |
| Program | | | CAP SW Sampling 06/21 | CAP SW Sampling 06/21 |
| Location ID | -- | -- | SEEP-A-EFF | SEEP-B-EFF |
| Field Sample ID | -- | -- | CAP0921-SEEP-A-EFF-12-091421 | CAP0921-SEEP-B-EFF-24-091521 |
| Sample Date and Time[2] | -- | -- | 9/14/2021 | 9/15/2021 |
| QA/QC | | | 0 | FS |
| Sample Matrix | | | Liquid | LIQUID |
| Sample Delivery Group (SDG) | | | 320-79075-1 | 320-79093-2 |
| Lab Sample ID | | | 320-79075-4 | 320-79093-1 |
| Sample Type | -- | -- | Composite | Composite |
| *Table 3+ Lab SOP Mass Discharge[7] (mg/s)* | | | | |
| HFPO-DA | **0.41** | **0.51** | **4.2E-05** | **4.4E-04** |
| PFMOAA | **2.0** | **2.7** | **3.5E-04** | **1.6E-03** |
| PFO2HxA | **0.67** | **0.85** | **9.3E-05** | **3.1E-04** |
| PFO3OA | **0.32** | **0.41** | **2.0E-05** | **4.7E-05** |
| PFO4DA | **0.36** | **0.46** | ND | ND |
| PFO5DA | **0.105** | **0.13** | ND | ND |
| PMPA | **0.22** | **0.25** | **1.3E-04** | **1.1E-03** |
| PEPA | **0.07** | **0.08** | ND | **3.3E-04** |
| PS Acid | **0.017** | **0.022** | ND | ND |
| Hydro-PS Acid | **0.047** | **0.060** | ND | ND |
| R-PSDA | **0.041** | **0.05** | ND | ND |
| Hydrolyzed PSDA | **0.10** | **0.12** | **2.2E-05** | **2.3E-04** |
| R-PSDCA | **0.0032** | **0.0040** | ND | ND |
| NVHOS, Acid Form | **0.03** | **0.03** | ND | **2.2E-05** |
| EVE Acid | **0.002** | **0.003** | ND | ND |
| Hydro-EVE Acid | **0.033** | **0.042** | ND | ND |
| R-EVE | **0.015** | **0.020** | ND | ND |
| PES | **0.00002** | **0.00003** | ND | ND |
| PFECA B | ND | ND | ND | ND |
| PFECA-G | ND | ND | ND | ND |
| **Total Attachment C Mass Discharge[8,9]** | **4.2** | **5.4** | **6.3E-04** | **3.9E-03** |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | **4.2** | **5.4** | **6.3E-04** | **3.9E-03** |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | **4.4** | **5.7** | **6.5E-04** | **4.1E-03** |

**TABLE B19-2**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY AFTER REMEDIES - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | 6C | 6D | 6E | 6F |
|---|---|---|---|---|
| Pathway Name | Seep C | Seep D | Lock and Dam Seep | Lock-Dam North |
| Flow (MG) | 0.05 | 0.47 | 0.02 | 9.78E-04 |
| Instantaneous Flow (ft3/sec) | -- | -- | -- | |
| Program | CAP SW Sampling 06/21 | CAP SW Sampling 06/21 | CAP SW Sampling 06/21 | CAP SW Sampling 09/21 |
| Location ID | SEEP-C-EFF | SEEP-D-EFF | Lock-Dam Seep | Lock-Dam North |
| Field Sample ID | CAP0921-SEEP-C-EFF-24-091521 | CAP0921-SEEP-D-EFF-24-091521 | CAP0921-LOCK-DAM-SEEP-091421 | CAP0921-LOCK-DAM-NORTH-091421 |
| Sample Date and Time[2] | 9/15/2021 | 9/15/2021 | 9/14/2021 | 9/14/2021 |
| QA/QC | FS | FS | 0 | 0 |
| Sample Matrix | LIQUID | LIQUID | Liquid | Liquid |
| Sample Delivery Group (SDG) | 320-79093-1 | 320-79093-1 | 320-79067-1 | 320-79075-1 |
| Lab Sample ID | 320-79093-2 | 320-79093-3 | 320-79067-5 | 320-79075-1 |
| Sample Type | Composite | Composite | Grab | Grab |
| *Table 3+ Lab SOP Mass Discharge[7] (mg/s)* | | | | |
| HFPO-DA | **9.4E-06** | **5.1E-05** | **0.009** | **9.00E-05** |
| PFMOAA | **1.5E-04** | **2.0E-04** | **0.08** | **6.86E-05** |
| PFO2HxA | **1.9E-05** | **8.2E-05** | **0.03** | **6.43E-05** |
| PFO3OA | ND | ND | **0.01** | **1.20E-05** |
| PFO4DA | ND | ND | **0.002** | **3.99E-06** |
| PFO5DA | ND | ND | **0.0001** | **6.00E-07** |
| PMPA | **3.6E-05** | ND | **0.006** | **9.00E-05** |
| PEPA | ND | ND | **0.002** | **3.47E-05** |
| PS Acid | ND | ND | ND | ND |
| Hydro-PS Acid | ND | ND | **0.0002** | **4.07E-06** |
| R-PSDA | ND | ND | **0.001** | **5.57E-06** |
| Hydrolyzed PSDA | ND | ND | **0.001** | ND |
| R-PSDCA | ND | ND | **0.00001** | ND |
| NVHOS, Acid Form | ND | ND | **0.001** | **1.11E-06** |
| EVE Acid | ND | ND | ND | ND |
| Hydro-EVE Acid | ND | ND | **0.0001** | **5.57E-07** |
| R-EVE | ND | ND | **2.0E-04** | **1.97E-06** |
| PES | ND | ND | ND | ND |
| PFECA B | ND | ND | ND | ND |
| PFECA-G | ND | ND | ND | ND |
| **Total Attachment C Mass Discharge[8,9]** | **6.3E-02** | **3.5E-04** | **0.14** | **3.69E-04** |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | **6.3E-02** | **3.5E-04** | **0.14** | **3.69E-04** |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | **6.5E-02** | **3.5E-04** | **0.14** | **3.77E-04** |

**TABLE B19-2**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY AFTER REMEDIES - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | 7 | 9 | Sum of All Pathways - Lower Bound |
|---|---|---|---|
| Pathway Name | Old Outfall 002 | Georgia Branch Creek | |
| Flow (MG) | 1.14 | 2.9 | |
| Instantaneous Flow (ft3/sec) | -- | -- | |
| Program | CAP SW Sampling 06/21 | CAP SW Sampling 06/21 | |
| Location ID | OLDOF-1 | GBC-1 | |
| Field Sample ID | CAP0921-OLDOF-1-24-091521 | CAP0921-GBC-1-091421 | |
| Sample Date and Time[2] | 9/15/2021 | 9/14/2021 | |
| QA/QC | 0 | 0 | |
| Sample Matrix | Liquid | Liquid | |
| Sample Delivery Group (SDG) | 320-79093-1 | 320-79067-1 | |
| Lab Sample ID | 320-79093-4 | 320-79067-1 | |
| Sample Type | Composite | Grab | |
| ***Table 3+ Lab SOP Mass Discharge*** [7] ***(mg/s)*** | | | |
| HFPO-DA | **0.01** | **0.06** | **0.59** |
| PFMOAA | **0.04** | **0.01** | **2.47** |
| PFO2HxA | **0.02** | **0.05** | **0.88** |
| PFO3OA | **0.01** | **0.01** | **0.37** |
| PFO4DA | **0.002** | **0.003** | **0.37** |
| PFO5DA | **0.001** | **0.000** | **0.11** |
| PMPA | **0.01** | **0.09** | **0.84** |
| PEPA | **0.003** | **0.03** | **0.14** |
| PS Acid | ND | ND | **0.02** |
| Hydro-PS Acid | **3.3E-04** | **0.003** | **0.05** |
| R-PSDA | **4.5E-04** | **0.00** | **0.29** |
| Hydrolyzed PSDA | **0.001** | ND | **0.24** |
| R-PSDCA | ND | ND | **0.00** |
| NVHOS, Acid Form | **0.001** | **0.000** | **0.32** |
| EVE Acid | ND | ND | **0.00** |
| Hydro-EVE Acid | **0.000** | **0.000** | **0.04** |
| R-EVE | **0.000** | **0.002** | **0.02** |
| PES | ND | ND | **0.00** |
| PFECA B | ND | ND | **0.00** |
| PFECA-G | ND | ND | **0.00** |
| **Total Attachment C Mass Discharge**[8,9] | **0.09** | **0.25** | **5.9** |
| **Total Table 3+ Mass Discharge (17 compounds)**[8,10] | **0.09** | **0.25** | **6.2** |
| **Total Table 3+ Mass Discharge (20 Compounds)**[8] | **0.09** | **0.26** | **6.7** |

**TABLE B19-2**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY AFTER REMEDIES - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| **Pathway Number**[1] | **Sum of All Pathways - Upper Bound** | **--** | **--** |
|---|---|---|---|
| **Pathway Name** | | **Tar Heel Ferry Road Bridge**[6] | **Tar Heel Ferry Road Bridge** |
| **Flow (MG)** | | **--** | **680** |
| **Instantaneous Flow (ft3/sec)** | | **1,120** | **--** |
| **Program** | | **CAP SW Sampling 06/21** | **CAP SW Sampling 06/21** |
| **Location ID** | | **CFR-TARHEEL** | **CFR-TARHEEL** |
| **Field Sample ID** | | **CAP0921-CFR-TARHEEL-091521** | **CAP0921-CFR-TARHEEL-24-091521** |
| **Sample Date and Time**[2] | | **9/15/2021** | **9/15/2021** |
| **QA/QC** | | **FS** | **0** |
| **Sample Matrix** | | **LIQUID** | **Liquid** |
| **Sample Delivery Group (SDG)** | | **320-79067-1** | **320-79449-1** |
| **Lab Sample ID** | | **320-79067-4** | **320-79449-1** |
| **Sample Type** | | **Grab** | **Composite** |
| ***Table 3+ Lab SOP Mass Discharge***[7] ***(mg/s)*** | | | |
| HFPO-DA | **0.68** | **0.44** | **0.39** |
| PFMOAA | **3.13** | **1.2** | **1.1** |
| PFO2HxA | **1.07** | **0.7** | **0.5** |
| PFO3OA | **0.46** | **0.16** | **0.1** |
| PFO4DA | **0.47** | ND | ND |
| PFO5DA | **0.14** | ND | ND |
| PMPA | **0.87** | **0.8** | **0.6** |
| PEPA | **0.15** | ND | ND |
| PS Acid | **0.02** | ND | ND |
| Hydro-PS Acid | **0.07** | ND | ND |
| R-PSDA | **0.30** | **0.3** | **0.3** |
| Hydrolyzed PSDA | **0.27** | **0.35** | **0.4** |
| R-PSDCA | **0.00** | ND | ND |
| NVHOS, Acid Form | **0.32** | **0.295** | **0.3** |
| EVE Acid | **0.00** | ND | ND |
| Hydro-EVE Acid | **0.04** | ND | ND |
| R-EVE | **0.03** | **0.095** | **0.1** |
| PES | **0.00** | ND | ND |
| PFECA B | **0.00** | ND | ND |
| PFECA-G | **0.00** | ND | ND |
| **Total Attachment C Mass Discharge**[8,9] | **7.1** | **3.2** | **2.8** |
| **Total Table 3+ Mass Discharge (17 compounds)**[8,10] | **7.4** | **3.5** | **3.0** |
| **Total Table 3+ Mass Discharge (20 Compounds)**[8] | **8.0** | **4.4** | **3.9** |

**TABLE B19-2**
**TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY AFTER REMEDIES - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Pathway Number[1] | -- | -- |
|---|---|---|
| Pathway Name | Bladen Bluff[6] | Kings Bluff |
| Flow (MG) | -- | -- |
| Instantaneous Flow (ft3/sec) | 1,140 | 1,100 |
| Program | CAP SW Sampling 06/21 | CAP SW Sampling 06/21 |
| Location ID | CFR-BLADEN | CFR-KINGS |
| Field Sample ID | CAP0921-CFR-BLADEN-091421 | CAP0921-CFR-KINGS-092121 |
| Sample Date and Time[2] | 9/14/2021 | 9/21/2021 |
| QA/QC | 0 | 0 |
| Sample Matrix | Liquid | LIQUID |
| Sample Delivery Group (SDG) | 320-79067-1 | 320-79449-1 |
| Lab Sample ID | 320-79067-3 | 320-79449-2 |
| Sample Type | Grab | Grab |
| *Table 3+ Lab SOP Mass Discharge[7] (mg/s)* | | |
| HFPO-DA | **0.36** | **0.28** |
| PFMOAA | **1.0** | **0.9** |
| PFO2HxA | **0.5** | **0.4** |
| PFO3OA | **0.161** | **0.10** |
| PFO4DA | ND | ND |
| PFO5DA | ND | ND |
| PMPA | **0.7** | **0.6** |
| PEPA | ND | ND |
| PS Acid | ND | ND |
| Hydro-PS Acid | ND | ND |
| R-PSDA | **0.25** | **0.2** |
| Hydrolyzed PSDA | **0.29** | **0.22** |
| R-PSDCA | ND | ND |
| NVHOS, Acid Form | **0.3** | **0.2** |
| EVE Acid | ND | ND |
| Hydro-EVE Acid | ND | ND |
| R-EVE | **0.068** | **0.1** |
| PES | ND | ND |
| PFECA B | ND | ND |
| PFECA-G | ND | ND |
| **Total Attachment C Mass Discharge[8,9]** | **2.8** | **2.2** |
| **Total Table 3+ Mass Discharge (17 compounds)[8,10]** | **3.2** | **2.5** |
| **Total Table 3+ Mass Discharge (20 Compounds)[8]** | **3.9** | **3.0** |

***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 Appendix F and Cape Fear River PFAS Mass Loading Calculation Protocol Version 2 (Geosyntec, 2020d).

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 September 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 Appendix E. 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 Appendix E.

6 - Mass discharge values for grab samples collected at Tar Heel Ferry Road Bridge and Bladen Bluff are determined based on instantaneous flow rates.

7 - Mass discharge by analyte is calculated based on Table 3+ concentrations in Tables A2 and A5and 24-hour flow volumes reported in Table A3.

8 - Total PFAS mass discharge is based on the summed Total PFAS concentrations reported in Table A2 and Table A5, which are rounded to two significant figures.

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

10 - Total Table 3+ (17 compounds) does not include 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.

**TABLE B20**
**CAPE FEAR RIVER TOTAL PFAS RELATIVE MASS DISCHARGE PER PATHWAY**
**Chemours Fayetteville Works, North Carolina**

| Pathway[1] | July 2021 | | | | August 2021 | | | | September 2021 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total Attachment C[2] | | Total Table 3+ (20 Compounds) | | Total Attachment C[2] | | Total Table 3+ (20 Compounds) | | Total Attachment C[2] | | Total Table 3+ (20 Compounds) | |
| | Lower | Upper | Lower | Upper | Lower | Upper | Lower | Upper | Lower | Upper | Lower | Upper |
| [1] Upstream River Water and Groundwater | 10% | 9% | 11% | 10% | 2% | 2% | 2% | 2% | 3% | 3% | 7% | 6% |
| [2] Willis Creek | 4% | 4% | 4% | 4% | 3% | 3% | 4% | 4% | 4% | 4% | 4% | 4% |
| [3] Aerial Deposition on Water Features | <1% | <1% | <1% | <1% | <1% | <1% | <1% | <1% | <1% | <1% | <1% | <1% |
| [4] Outfall 002 | 1% | 1% | 3% | 3% | 1% | 1% | 1% | 1% | <1% | <1% | <1% | <1% |
| *Outfall 002 (After Remedies)*[3] | --[4] | --[4] | --[4] | --[4] | *<1%* | *<1%* | *<1%* | *<1%* | --[4] | --[4] | --[4] | --[4] |
| [5] Onsite Groundwater | 23% | 27% | 20% | 24% | 32% | 33% | 31% | 33% | 30% | 35% | 27% | 33% |
| [6] Seeps | 44% | 42% | 45% | 43% | 43% | 42% | 44% | 43% | 39% | 36% | 39% | 36% |
| *Seeps (After Remedies)*[5] | *<1%* | *<1%* | *<1%* | *<1%* | *1%* | *1%* | *1%* | *1%* | *1%* | *1%* | *1%* | *1%* |
| [7] Old Outfall 002 | 13% | 12% | 11% | 10% | 16% | 16% | 16% | 15% | 21% | 19% | 19% | 17% |
| *Old Outfall 002 (After Remedies)*[6] | *2%* | *1%* | *1%* | *1%* | *1%* | *1%* | *1%* | *1%* | *1%* | *1%* | *1%* | *1%* |
| [8] Offsite Adjacent and Downstream Groundwater | 4% | 3% | 4% | 4% | 1% | 1% | 1% | 1% | 1% | 1% | 2% | 2% |
| [9] Georgia Branch Creek | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% |

***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 8A, 9A, and 10A). These relative contributions are presented as a range, which represents the upper and lower bound model estimates.

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

3 - The Outfall 002 (After Remedies) relative contributions for August 2021 were calculated using the After Remedies model-estimated mass discharge at the Stormwater Treatment System (Tables 9A and 9B). 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.

4 - There was no flow to the Stormwater Treatment System during the July or September 2021 sampling events.

5 - The Seeps (After Remedies) relative contributions for July to September 2021 were calculated using the After Remedies model-estimated mass discharges at Seeps A to D, Lock and Dam Seep and Lock and Dam North (Tables 8B, 9B, and 10B).

6- The Old Outfall 002 (After Remedies) relative contributions for July to September 2021 were calculated using the After Remedies model-estimated mass discharges at Old Outfall 002 (Tables 8B, 9B, and 10B).

# Appendix C

# Field Forms

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | CFR-BLADEN | Project Manager: | Tracy Ovbey |
| Samplers: | BRANDON WEIDNER\|LUKE TART\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 07-27-2021 | Time: | 16:51 | 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 | | | | |
| CAP0721-CFR-BLADEN-072721 | 07-27-2021 16:50 | | 6.35 | 6.86 | 175.30 | 19.76 | 115.22 | 31.35 | Clear | none | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | Peri Pump Grab | Tubing Depth (ft): | 5 | Distance to River Right: | 21 |
| Sampling Location: | Intake | Multi Meter Used: | Insitu Aqua Troll | Distance to River Left: | 63 |
| Total Depth to Bottom of Channel (ft): | 10 | Multi Meter ID: | 766679 | Distance to River (Right/Left) Units: | yd |

**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 |

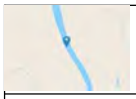
**ALL PARAMETERS ANALYZED**

**Table 3+ (20)(LL) Including HFPO-DA, 537 MOD (13 PFCAs)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 90.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 6 |

| | |
|---|---|
| Latitude: | 34.7723232593396 |
| Longitude: | -78.7983108781166 |



GPS Location (if collected)

River right

River left

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# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | CFR-KINGS | Project Manager: | Tracy Ovbey |
| Samplers: | JELANI GILL\|KEN STUART\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 07-30-2021 | Time: | 11:00 | General Comments: | Thalweg: 15 ft Tubing Depth: 7.5 ft |

| Spl ID | Spl Date | Time | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | QA/QC | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | mg/L | mV | NTU | µS/cm | °C | | | | |
| CAP0721-CFR-KINGS-073021 | 07-30-2021 | 11:10 | 6.83 | 5.61 | 93.70 | 13.70 | 99.42 | 29.55 | Clear | No | -- | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | Peri Pump Grab | Multi Meter Used: | Insitu Aqua Troll | Flow Rate: | N/A |
| | | Multi Meter ID: | 706682 | Flow Rate Units: | 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)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 88.00 |
| Sky: | Partly Sunny |
| Precipitation: | |
| Wind (mph) | 9 |

| | |
|---|---|
| Latitude: | 34.4062088 |
| Longitude: | -78.2942726 |

GPS Location (if collected)

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

Sample location

Pump area at kings

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# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | CFR-RM-76 | Project Manager: | Tracy Ovbey |
| Samplers: | ALLISON HARRIS\|LUKE TART\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 07-27-2021 | Time: | 09:50 | 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 | | | | |
| CAP0721-CFR-RM-76-072721 | 07-27-2021 10:10 | | 6.73 | 6.29 | 219.10 | 9.31 | 125.10 | 31.18 | Clear | None | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | Peri Pump Grab | Tubing Depth (ft): | 11 | Distance to River Right: | 15 |
| Sampling Location: | Thalweg | Multi Meter Used: | Insitu Aqua Troll | Distance to River Left: | 72 |
| Total Depth to Bottom of Channel (ft): | 22.4 | Multi Meter ID: | 766679 | Distance to River (Right/Left) Units: | yd |

**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 |

**ALL PARAMETERS ANALYZED**

**Table 3+ (20)(LL) Including HFPO-DA, 537 MOD (13 PFCAs)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 81.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| Latitude: | 34.8542651187444 |
| Longitude: | -78.8271486679728 |

GPS Location (if collected)

River right

River left

PARSONS

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | CFR-TARHEEL | Project Manager: | Tracy Ovbey |
| Samplers: | ALLISON HARRIS\|CHARLES PACE\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 07-28-2021 | Time: | 08:41 | 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 | | | | |
| CAP0721-CFR-TARHEEL-072821 | 07-28-2021 08:50 | | 7.18 | 6.09 | 109.00 | 4.77 | 100.59 | 29.72 | Clear | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | Bottle Grab | Tubing Depth (ft): | 8.5 | Distance to River Right: | 28 |
| Sampling Location: | Thalweg | Multi Meter Used: | Insitu Aqua Troll | Distance to River Left: | 58 |
| Total Depth to Bottom of Channel (ft): | 17.3 | Multi Meter ID: | 706751 | Distance to River (Right/Left) Units: | yd |

**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 |

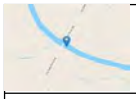
**ALL PARAMETERS ANALYZED**

**Table 3+ (20)(LL) Including HFPO-DA, 537 MOD (13 PFCAs)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 84.00 |
| Sky: | Partly Sunny |
| Precipitation: | None |
| Wind (mph) | 4 |

| | |
|---|---|
| Latitude: | 34.744238292649 |
| Longitude: | -78.785211615094 2 |



GPS Location (if collected)

River Right

River Left

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# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | CFR-TARHEEL | Project Manager: | Tracy Ovbey |
| Samplers: | ALLISON HARRIS\|JELANI GILL\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 7/29/2021 | Time: | 13:32 | 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 | | | | |
| CAP0721-CFR-TARHEEL-24-072921 | 7/29/2021 16:45 | | 6.90 | 5.95 | 108.10 | 26.71 | 74.01 | 31.20 | Clear | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 7/28/2021 17:45 | Multi Meter ID: | 706682 |
| ISCO End Date and Time: | 7/29/2021 16:45 | Old Outfall Bypass(Yes/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**

**Table 3+ (20)(LL) Including HFPO-DA, 537 MOD (13 PFCAs)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 91.00 |
| Sky: | Partly Sunny |
| Precipitation: | None |
| Wind (mph) | 7 |

| | |
|---|---|
| Latitude: | 34.7450143 |
| Longitude: | -78.7852572 |

GPS Location (if collected)

PARSONS

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | GBC-1 | Project Manager: | Tracy Ovbey |
| Samplers: | BRANDON WEIDNER\|RICK HEINTZMAN\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 07-27-2021 | Time: | 14:24 | 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 | | | | |
| CAP0721-GBC-1-072721 | 07-27-2021 | 13:45 | 4.62 | 7.61 | 290.40 | 19.60 | 85.09 | 32.76 | Clear | None | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | Bottle Grab | Multi Meter Used: | Insitu Aqua Troll | Flow Rate: | -- |
| | | Multi Meter ID: | 766679 | Flow Rate Units: | -- |

**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) |

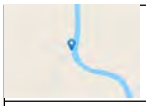
**ALL PARAMETERS ANALYZED**

**Table 3+ (20)(LL) Including HFPO-DA, 537 MOD (13 PFCAs)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 90.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 6 |

| | |
|---|---|
| Latitude: | 34.8149323229733 |
| Longitude: | -78.8214632032754 |



GPS Location (if collected)

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

Flow location

PARSONS

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | Lock-Dam Seep | Project Manager: | Tracy Ovbey |
| Samplers: | DANIELLE DELGADO\|KEN STUART\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 07-27-2021 | Time: | 13:25 | General Comments: | Lock and Seep North was dry. |

| Spl ID | Spl Date | Time | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | QA/QC | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | mg/L | mV | NTU | µS/cm | °C | | | | |
| CAP0721-LOCK-DAM-SEEP-072721 | 07-27-2021 13:25 | | 5.98 | 7.39 | 135.60 | 19.64 | 127.25 | 26.81 | Clear | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | Bottle Grab | Multi Meter Used: | Insitu Aqua Troll | Flow Rate: | -- |
| | | Multi Meter ID: | -- | Flow Rate Units: | -- |

**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)**

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 91.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| Latitude: | -- |
| Longitude: | -- |

GPS Location (if collected)

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

PARSONS

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | LTW-01 | Well Diameter: | 2 Inches |
| Samplers: | DANIELLE DELGADO\|JELANI GILL | Event: | Annual CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: --
Pump Loc: --
Method: Low Flow Date: 07-29-2021 Time: 14:07

*WATER VOLUME CALCULATION*

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

Water Volume = 2.12

Initial Depth to Water (ft.): 15.91 Depth to Well Bottom (ft.): 28.91

| 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 | 16.43 | 300.00 | 1500.00 | 3.85 | 0.25 | 214.49 | 16.20 | 103.56 | 22.68 | Clear | No | |
| 14:20 | 16.54 | 300.00 | 1500.00 | 3.22 | 0.09 | 252.40 | 10.20 | 104.26 | 22.31 | Clear | No | |
| 14:25 | 16.54 | 300.00 | 1500.00 | 3.07 | 0.10 | 299.50 | 8.67 | 108.51 | 22.02 | Clear | No | |
| 14:30 | 16.56 | 300.00 | 1500.00 | 3.01 | 0.10 | 348.00 | 9.67 | 113.07 | 21.69 | Clear | No | |
| 14:35 | 16.56 | 300.00 | 1500.00 | 3.01 | 0.08 | 358.00 | 5.10 | 109.47 | 21.67 | Clear | N | |
| 14:39 | 16.56 | 300.00 | 1200.00 | 3.01 | 0.06 | 357.00 | 4.79 | 110.40 | 21.53 | Clear | No | |
| 14:45 | 16.56 | 300.00 | 1800.00 | 3.04 | 0.05 | 355.80 | 5.20 | 111.77 | 21.26 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 07-29-2021 Time: 14:45
Field Filtered: No

Purge Start Time: 14:10
Total Volume Purged (mL): 10500

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 3.04 |
| Spec. Cond.(µS/cm) | 111.77 |
| Turbidity (NTU) | 5.20 |
| Temp.(°C) | 21.26 |
| DO (mg/L) | 0.05 |
| ORP (mV) | 355.80 |

Screen Interval: 11.0-26.0

| 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: CAP0721-LTW-01-072921
DuplicateID:
QA/QC:

| ALL PARAMETERS ANALYZED |
|---|
| **537 MOD (13PFCAs)\|Table 3+ (20)(HL) Including HFPO-DA, Additional DEQ requested Analytes** |

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 90.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 7 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

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# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | LTW-02 | Well Diameter: | 2 Inches |
| Samplers: | DANIELLE DELGADO\|JELANI GILL | Event: | Annual CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: --
Pump Loc: within screen
Method: Peristaltic Pump Date: 07-29-2021 Time: 12:40

*WATER VOLUME CALCULATION*

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

Water Volume = 5.064

Initial Depth to Water (ft.): 9 Depth to Well Bottom (ft.): 40.65

| Time | DTW | Pump Rate | Vol. | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 hr | ft | mL/min | mL | pH units | mg/L | mV | NTU | µS/cm | °C | | | |
| 12:50 | 9.09 | 300.00 | 1500.00 | 4.08 | 0.08 | 182.60 | 29.42 | 57.14 | 21.95 | Clear | No | |
| 12:55 | 9.09 | 300.00 | 1500.00 | 4.07 | 0.07 | 180.60 | 28.66 | 57.57 | 21.77 | Clear | N0 | |
| 13:00 | 9.15 | 300.00 | 1500.00 | 4.04 | 0.05 | 167.50 | 13.90 | 59.37 | 21.94 | Clear | No | |
| 13:05 | 9.15 | 300.00 | 1500.00 | 4.1 | 0.04 | 159.40 | 11.41 | 58.57 | 21.80 | Clear | No | |
| 13:10 | 9.15 | 300.00 | 1500.00 | 4.15 | 0.03 | 150.00 | 5.32 | 58.27 | 21.56 | Clear | No | |
| 13:15 | 9.15 | 300.00 | 1500.00 | 4.24 | 0.03 | 141.00 | 5.21 | 57.81 | 21.62 | Clear | No | |
| 13:20 | 9.15 | 300.00 | 1500.00 | 4.34 | 0.03 | 132.40 | 4.76 | 57.44 | 21.54 | Clear | No | |
| 13:25 | 9.15 | 300.00 | 1500.00 | 4.42 | 0.03 | 125.60 | 4.04 | 56.09 | 21.88 | Clear | No | |
| 13:30 | 9.15 | 300.00 | 1500.00 | 4.48 | 0.03 | 120.10 | 3.94 | 55.74 | 22.29 | Clear | No | |
| 13:35 | 9.15 | 300.00 | 1500.00 | 4.51 | 0.03 | 116.90 | 3.72 | 54.52 | 22.67 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 07-29-2021 Time: 13:35
Field Filtered: No

Purge Start Time: 12:45
Total Volume Purged (mL): 15000

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.51 |
| Spec. Cond.(µS/cm) | 54.52 |
| Turbidity (NTU) | 3.72 |
| Temp.(°C) | 22.67 |
| DO (mg/L) | 0.03 |
| ORP (mV) | 116.90 |

Screen Interval: 28.0-38.0

| 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 (13PFCAs)\|Table 3+ (20)(HL) Including HFPO-DA, Additional DEQ requested Analytes** |

Sample ID: CAP0721-LTW-02-072921
DuplicateID: CAP0721-LTW-02-072921-D
QA/QC: Dup|MS|Rep

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 84.00 |
| Sky: | Partly Cloudy |
| Precipitation: | None |
| Wind (mph) | 4 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | LTW-03 | Well Diameter: | 2 Inches |
| Samplers: | CHARLES PACE\|JELANI GILL | Event: | Annual CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: --
Pump Loc: bottom of well
Method: Peristaltic Pump Date: 07-26-2021 Time: 11:15

*WATER VOLUME CALCULATION*

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

Water Volume = 3.322

Initial Depth to Water (ft.): 11.99 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 | | | |
| 11:25 | 12.66 | 300.00 | 1500.00 | 4.38 | 0.75 | 227.60 | 22.64 | 97.17 | 20.48 | Clear | No | |
| 11:30 | 12.94 | 225.00 | 1125.00 | 4.57 | 0.12 | 233.60 | 9.67 | 98.46 | 21.33 | Clear | No | |
| 11:35 | 12.96 | 200.00 | 1000.00 | 4.55 | 0.11 | 239.90 | 8.85 | 98.54 | 21.91 | Clear | No | |
| 11:40 | 13.06 | 200.00 | 1000.00 | 4.56 | 0.09 | 242.00 | 9.50 | 98.53 | 21.18 | Clear | No | |
| 11:45 | 13.06 | 200.00 | 1000.00 | 4.56 | 0.09 | 243.60 | 8.12 | 99.85 | 21.05 | Clear | No | |
| 11:50 | 13.11 | 200.00 | 1000.00 | 4.56 | 0.09 | 244.40 | 9.34 | 98.66 | 20.55 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 07-26-2021 Time: 11:50
Field Filtered: No

Purge Start Time: 11:20
Total Volume Purged (mL): 6625

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.56 |
| Spec. Cond.(µS/cm) | 98.66 |
| Turbidity (NTU) | 9.34 |
| Temp.(°C) | 20.55 |
| DO (mg/L) | 0.09 |
| ORP (mV) | 244.40 |

Screen Interval: 15.0-30.0

| 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: CAP0721-LTW-03-072621
DuplicateID:
QA/QC:

| ALL PARAMETERS ANALYZED |
|---|
| **537 MOD (13PFCAs)\|Table 3+ (20)(HL) Including HFPO-DA, Additional DEQ requested Analytes** |

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 89.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 4 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

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# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | LTW-04 | Well Diameter: | 2 Inches |
| Samplers: | DANIELLE DELGADO\|LUKE TART | Event: | Annual CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: --
Pump Loc: within screen
Method: Peristaltic Pump Date: 07-30-2021 Time: 13:03

*WATER VOLUME CALCULATION*

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

Water Volume = 3.2

Initial Depth to Water (ft.): 8.48 Depth to Well Bottom (ft.): 28.48

| 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 | | | |
| 13:15 | 9.10 | 280.00 | 1400.00 | 4.01 | 2.08 | 329.00 | 14.04 | 105.85 | 24.23 | Clear | No | |
| 13:20 | 10.55 | 280.00 | 1400.00 | 4.06 | 2.17 | 323.40 | 13.88 | 102.69 | 24.99 | Clear | No | |
| 13:25 | 10.81 | 250.00 | 1250.00 | 4.26 | 2.47 | 286.80 | 18.68 | 97.63 | 23.75 | Clear | No | |
| 13:30 | 11.40 | 250.00 | 1250.00 | 4.35 | 0.11 | 271.10 | 23.07 | 99.06 | 23.23 | Clear | No | |
| 13:35 | 11.75 | 150.00 | 750.00 | 4.4 | 0.11 | 262.30 | -- | 100.04 | 23.85 | Clear | No | |
| 13:40 | 11.88 | 150.00 | 750.00 | 4.45 | 0.10 | 254.80 | 14.32 | 99.31 | 24.06 | | | |
| 13:45 | 11.92 | 150.00 | 750.00 | 4.44 | 0.10 | 253.60 | 9.88 | 100.07 | 23.92 | Clear | No | |
| 13:50 | 11.95 | 150.00 | 750.00 | 4.44 | 0.10 | 250.60 | 6.97 | 99.86 | 23.79 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 07-30-2021 Time: 13:50
Field Filtered: No

Purge Start Time: 13:10
Total Volume Purged (mL): 8300

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.44 |
| Spec. Cond.(µS/cm) | 99.86 |
| Turbidity (NTU) | 6.97 |
| Temp.(°C) | 23.79 |
| DO (mg/L) | 0.10 |
| ORP (mV) | 250.60 |

Screen Interval: 12.0-27.0

| 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: CAP0721-LTW-04-073021
DuplicateID: CAP0721-LTW-04-073021-D
QA/QC: Dup

| ALL PARAMETERS ANALYZED |
|---|
| **537 MOD (13PFCAs)\|Table 3+ (20)(HL) Including HFPO-DA Additional DEQ Requested Analytes** |

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 90.00 |
| Sky: | Partly Cloudy |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | LTW-05 | Well Diameter: | 2 Inches |
| Samplers: | DANIELLE DELGADO\|LUKE TART | Event: | Annual CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: --
Pump Loc: within screen
Method: Peristaltic Pump Date: 07-30-2021 Time: 14:15

*WATER VOLUME CALCULATION*

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

Water Volume = 6.086

Initial Depth to Water (ft.): 9.18 Depth to Well Bottom (ft.): 47.22

| 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 | | | |
| 14:30 | 9.21 | 180.00 | 1800.00 | 4.25 | 0.13 | 195.80 | 64.33 | 124.27 | 24.60 | Slight haze | No | |
| 14:35 | 9.28 | 180.00 | 900.00 | 4.26 | 0.10 | 173.00 | 63.38 | 124.08 | 24.51 | Slight haze | No | |
| 14:40 | 9.26 | 180.00 | 900.00 | 4.28 | 0.08 | 148.50 | -- | 122.15 | 24.60 | Slight haze | No | |
| 14:45 | 9.26 | 180.00 | 900.00 | 4.34 | 0.10 | 159.50 | 52.27 | 122.11 | 24.49 | Clear | No | |
| 14:50 | 9.26 | 180.00 | 900.00 | 4.28 | 0.08 | 136.20 | 46.36 | 122.93 | 24.14 | Clear | No | |
| 14:55 | 9.26 | 180.00 | 900.00 | 4.28 | 0.06 | 131.60 | 22.90 | 123.81 | 24.38 | Clear | No | |
| 15:00 | 9.26 | 180.00 | 900.00 | 4.23 | 0.05 | 133.30 | 18.39 | 124.31 | 24.15 | Clear | No | |
| 15:05 | 9.26 | 180.00 | 900.00 | 4.23 | 0.05 | 133.60 | 15.45 | 124.31 | 24.20 | Clear | No | |
| 15:10 | 9.26 | 180.00 | 900.00 | 4.23 | 0.05 | 135.00 | 16.50 | 124.05 | 24.25 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 07-30-2021 Time: 15:10
Field Filtered: No

Purge Start Time: 14:20
Total Volume Purged (mL): 9000

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.23 |
| Spec. Cond.(µS/cm) | 124.05 |
| Turbidity (NTU) | 16.50 |
| Temp.(°C) | 24.25 |
| DO (mg/L) | 0.05 |
| ORP (mV) | 135.00 |

Screen Interval: 29.0-44.0

| 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: CAP0721-LTW-05-073021
DuplicateID:
QA/QC:

| ALL PARAMETERS ANALYZED |
|---|
| 537 MOD (13PFCAs)\|Table 3+ (20)(HL) Including HFPO-DA, Additional DEQ requested Analytes |

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 82.00 |
| Sky: | Partly Cloudy |
| Precipitation: | None |
| Wind (mph) | 5 |

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

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# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | OLDOF-1 | Project Manager: | Tracy Ovbey |
| Samplers: | DANIELLE DELGADO\|KEN STUART\| | Sampling Event: | Monthy CAP | Event Type: | Sampling |
| Date: | 07-27-2021 | Time: | 13:38 | 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 | | | | |
| CAP0721-OLDOF-1-24-072821 | 07-28-2021 06:12 | | 4.74 | 8.03 | 266.00 | 33.03 | 220.76 | 23.67 | Clear | None | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 07-27-2021 10:12 | Multi Meter ID: | -- |
| ISCO End Date and Time: | 07-28-2021 06:12 | Old Outfall Bypass(Yes/No): | Yes |

**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)**

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 91.00 |
| Sky: | Partly Sunny |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| Latitude: | -- |
| Longitude: | -- |

GPS Location (if collected)

PARSONS

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | OUTFALL 002 | Project Manager: | Tracy Ovbey |
| Samplers: | DANIELLE DELGADO\|KEN STUART\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 07-27-2021 | Time: | 15:51 | General Comments: | I |

| Spl ID | Spl Date | Time | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | QA/QC | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | mg/L | mV | NTU | µS/cm | °C | | | | |
| CAP0721-OUTFALL-002-24-072821 | 07-28-2021 05:18 | | 6.51 | 7.68 | 165.00 | 15.13 | 157.49 | 32.55 | Clear | None | MS/REP | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 07-27-2021 06:18 | Multi Meter ID: | -- |
| ISCO End Date and Time: | 07-28-2021 05:18 | Old Outfall Bypass(Yes/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**

**Table 3+ (20)(LL) Including HFPO-DA, 537 MOD (13 PFCAs)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 90.00 |
| Sky: | Partly Sunny |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| Latitude: | -- |
| Longitude: | -- |

GPS Location (if collected)

PARSONS

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PIW-1D | Well Diameter: | 2 Inches |
| Samplers: | ALLISON HARRIS\|LUKE TART | Event: | Annual CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 29
Pump Loc: within screen
Method: Peristaltic Pump Date: 07-16-2021 Time: 13:33

*WATER VOLUME CALCULATION*

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

Water Volume = 2.194

Initial Depth to Water (ft.): 18.03 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 | | | |
| 13:40 | 18.03 | 250.00 | 1250.00 | 3.72 | 0.24 | 282.50 | 13.06 | 166.45 | 23.01 | Clear | No | |
| 13:45 | 18.03 | 250.00 | 1250.00 | 3.31 | 0.12 | 337.40 | 31.48 | 167.78 | 22.25 | Clear | No | |
| 13:50 | 18.03 | 250.00 | 1250.00 | 3.29 | 0.12 | 349.50 | 17.14 | 165.43 | 23.14 | Clear | No | |
| 13:55 | 18.03 | 250.00 | 1250.00 | 3.29 | 0.11 | 353.70 | 16.56 | 166.27 | 23.44 | Clear | No | |
| 15:00 | 18.03 | 250.00 | 16250.00 | 3.34 | 0.11 | 357.60 | 15.39 | 167.37 | 23.07 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 07-16-2021 Time: 14:00
Field Filtered: No

Purge Start Time: 13:35
Total Volume Purged (mL): 21250

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 3.34 |
| Spec. Cond.(µS/cm) | 167.37 |
| Turbidity (NTU) | 15.39 |
| Temp.(°C) | 23.07 |
| DO (mg/L) | 0.11 |
| ORP (mV) | 357.60 |

Screen Interval: 24.5 to 29.5

| 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: CAP0721-PIW-1D-071621
DuplicateID:
QA/QC:

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

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 91.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 2 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PIW-1S | Well Diameter: | 2 Inches |
| Samplers: | DANIELLE DELGADO\|LUKE TART | Event: | Annual CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: --
Pump Loc: within screen
Method: Peristaltic Pump Date: 07-14-2021 Time: 16:59

*WATER VOLUME CALCULATION*

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

Water Volume = 0.254

Initial Depth to Water (ft.): 20.33 Depth to Well Bottom (ft.): 21.92

| 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 | | | |
| 17:05 | 21.21 | 0.00 | 0.00 | 4.67 | 3.79 | 217.40 | 12.50 | 458.80 | 25.17 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 07-14-2021 Time: 17:05
Field Filtered: --

Purge Start Time: 17:05
Total Volume Purged (mL): 0

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.67 |
| Spec. Cond.(µS/cm) | 458.80 |
| Turbidity (NTU) | 12.50 |
| Temp.(°C) | 25.17 |
| DO (mg/L) | 3.79 |
| ORP (mV) | 217.40 |

Screen Interval: 7.8 - 17.8

| 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 (13PFCAs)\|Table 3+ (20)(HL) Including HFPO-DA** |

Sample ID: CAP0721-PIW-1S-071421
DuplicateID:
QA/QC:

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 90.00 |
| Sky: | Partly Sunny |
| Precipitation: | None |
| Wind (mph) | 7 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

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# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PIW-3D | Well Diameter: | 2 Inches |
| Samplers: | KEN STUART\|LUKE TART | Event: | Annual CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 21
Pump Loc: within screen
Method: Peristaltic Pump Date: 07-23-2021 Time: 12:09

*WATER VOLUME CALCULATION*

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

Water Volume = 1.645

Initial Depth to Water (ft.): 16.51 Depth to Well Bottom (ft.): 26.79

| 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 | | | |
| 12:22 | 16.51 | 300.00 | 0.00 | 4.77 | 0.22 | 94.90 | 70.61 | 93.61 | 20.43 | Very lt tan | | |
| 12:27 | 16.71 | 300.00 | 1500.00 | 4.29 | 0.11 | 104.30 | 37.14 | 92.60 | 20.00 | Clear | None | |
| 12:32 | 16.74 | 300.00 | 1500.00 | 4.14 | 0.09 | 105.90 | 16.30 | 93.02 | 19.75 | Clear | None | |
| 12:37 | 16.74 | 300.00 | 1500.00 | 4.08 | 0.07 | 106.70 | 11.50 | 92.82 | 20.12 | Clear | None | |
| 12:42 | 16.74 | 300.00 | 1500.00 | 4.08 | 0.05 | 106.70 | 8.13 | 92.78 | 20.18 | Clear | None | |
| 12:47 | 16.74 | 3004.05 | 15020.25 | 4.05 | 0.06 | 105.40 | 6.72 | 92.07 | 20.35 | Clear | None | |
| 12:52 | 16.74 | 300.00 | 1500.00 | 4.07 | 0.06 | 97.40 | 2.89 | 91.58 | 19.68 | Clear | None | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 07-23-2021 Time: 12:52
Field Filtered: No

Purge Start Time: 12:22
Total Volume Purged (mL): 22520.25

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.07 |
| Spec. Cond.(µS/cm) | 91.58 |
| Turbidity (NTU) | 2.89 |
| Temp.(°C) | 19.68 |
| DO (mg/L) | 0.06 |
| ORP (mV) | 97.40 |

Screen Interval: 19 - 24

**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: CAP0721-PIW-3D-072321
DuplicateID:
QA/QC:

**ALL PARAMETERS ANALYZED**

**537 MOD (13PFCAs)|Table 3+ (20)(HL) Including HFPO-DA**

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 84.00 |
| Sky: | Partly Sunny |
| Precipitation: | None |
| Wind (mph) | 3 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PIW-7D | Well Diameter: | 2 Inches |
| Samplers: | DANIELLE DELGADO | Event: | Annual CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: --
Pump Loc: within screen
Method: Peristaltic Pump Date: 07-16-2021 Time: 12:34

*WATER VOLUME CALCULATION*

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

Water Volume = 5.083

Initial Depth to Water (ft.): 5.27 Depth to Well Bottom (ft.): 37.04

| Time | DTW | Pump Rate | Vol. | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 hr | ft | mL/min | mL | pH units | mg/L | mV | NTU | µS/cm | °C | | | |
| 12:45 | 5.30 | 300.00 | 1500.00 | 4.22 | 0.16 | 172.30 | 8.51 | 91.74 | 22.13 | Clear | No | |
| 12:50 | 5.30 | 300.00 | 1500.00 | 4.21 | 0.00 | 158.10 | 14.66 | 91.59 | 21.91 | Clear | No | |
| 12:55 | 5.30 | 300.00 | 1500.00 | 4.21 | 0.06 | 151.60 | 15.87 | 91.65 | 21.99 | Clear | No | |
| 13:00 | 5.30 | 300.00 | 1500.00 | 4.2 | 0.04 | 145.70 | 13.12 | 91.55 | 21.99 | Clear | No | |
| 13:05 | 5.30 | 300.00 | 1500.00 | 4.21 | 0.04 | 141.80 | 9.54 | 91.65 | 22.58 | Clear | No | |
| 13:10 | 5.30 | 300.00 | 1500.00 | 4.2 | 0.04 | 142.00 | 9.48 | 93.02 | 22.61 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 07-16-2021 Time: 13:10
Field Filtered: No

Purge Start Time: 12:40
Total Volume Purged (mL): 9000

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.20 |
| Spec. Cond.(µS/cm) | 93.02 |
| Turbidity (NTU) | 9.48 |
| Temp.(°C) | 22.61 |
| DO (mg/L) | 0.04 |
| ORP (mV) | 142.00 |

Screen Interval: 29 - 34

**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 (13PFCAs)|Table 3+ (20)(HL) Including HFPO-DA

Sample ID: CAP0721-PIW-7D-071621
DuplicateID:
QA/QC:

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 88.00 |
| Sky: | Partly Cloudy |
| Precipitation: | None |
| Wind (mph) | 8 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PIW-7S | Well Diameter: | 2 Inches |
| Samplers: | DANIELLE DELGADO\|KEN STUART | Event: | Annual CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 19
Pump Loc: within screen
Method: Peristaltic Pump Date: 07-16-2021 Time: 12:28

*WATER VOLUME CALCULATION*

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

Water Volume = 2.746

Initial Depth to Water (ft.): 5.11 Depth to Well Bottom (ft.): 22.27

| 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 | | | |
| 12:48 | 5.53 | 175.00 | 0.00 | 4.56 | 0.17 | 152.30 | 102.13 | 125.62 | 23.07 | Clear with particles | None | |
| 12:53 | 5.54 | 175.00 | 875.00 | 4.56 | 0.15 | 150.30 | 105.17 | 124.02 | 22.85 | Clear with particles | None | |
| 12:58 | 5.54 | 175.00 | 875.00 | 4.55 | 0.09 | 136.20 | 47.86 | 119.76 | 22.14 | Clear | None | |
| 13:03 | 5.68 | 175.00 | 875.00 | 4.6 | 0.09 | 106.90 | 26.72 | 116.52 | 22.34 | Clear | None | |
| 13:08 | 5.78 | 175.00 | 875.00 | 4.68 | 0.08 | 93.80 | 18.62 | 117.68 | 22.62 | Clear | None | |
| 13:13 | 5.78 | 175.00 | 875.00 | 4.78 | 0.07 | 76.60 | 4.76 | 116.20 | 21.98 | Clear | None | |
| 13:18 | 5.78 | 175.00 | 875.00 | 4.82 | 0.06 | 68.60 | 9.25 | 116.65 | 22.58 | Clear | None | |
| 13:23 | 5.78 | 175.00 | 875.00 | 4.93 | 0.05 | 59.80 | 3.83 | 117.18 | 21.79 | Clear | None | |
| 13:28 | 5.78 | 175.00 | 875.00 | 5.08 | 0.05 | 50.60 | 0.95 | 117.99 | 22.20 | Clear | None | |
| 13:33 | 5.78 | 175.00 | 875.00 | 5.14 | 0.05 | 44.10 | 0.93 | 118.77 | 22.36 | Clear | None | |
| 13:43 | 5.78 | 175.00 | 1750.00 | 5.5 | 0.06 | 26.80 | 0.02 | 120.15 | 22.84 | Clear | None | Dumped flow cell and reset readings |
| 13:48 | 5.78 | 175.00 | 875.00 | 5.49 | 0.05 | 26.70 | 0.00 | 120.33 | 22.92 | Clear | None | |
| 13:53 | 5.78 | 175.00 | 875.00 | 5.52 | 0.05 | 24.40 | 0.00 | 120.32 | 22.49 | Clear | None | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 07-16-2021 Time: 13:53
Field Filtered: No

Purge Start Time: 12:48
Total Volume Purged (mL): 11375

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 5.52 |
| Spec. Cond.(µS/cm) | 120.32 |
| Turbidity (NTU) | 0.00 |
| Temp.(°C) | 22.49 |
| DO (mg/L) | 0.05 |
| ORP (mV) | 24.40 |

Screen Interval: 7 - 17

| 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: CAP0721-PIW-7S-071621
DuplicateID:
QA/QC:

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

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 88.00 |
| Sky: | Partly Cloudy |
| Precipitation: | None |
| Wind (mph) | 9 |

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

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# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PW-04 | Well Diameter: | 2 Inches |
| Samplers: | JELANI GILL\|TYLER PORRITT | Event: | Annual CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 28
Pump Loc: within screen
Method: Peristaltic Pump Date: 07-22-2021 Time: 16:01

*WATER VOLUME CALCULATION*

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

Water Volume = 0.792

Initial Depth to Water (ft.): 25.85 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 | | | |
| 16:15 | 27.06 | 150.00 | 1650.00 | 3.33 | 0.26 | 408.90 | 14.78 | 119.48 | 24.17 | Clear | No | |
| 16:20 | 27.33 | 150.00 | 750.00 | 3.2 | 0.26 | 393.90 | 6.69 | 118.57 | 24.46 | Clear | No | |
| 16:25 | 27.34 | 150.00 | 750.00 | 3.25 | 0.27 | 370.20 | 6.95 | 119.23 | 24.75 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 07-22-2021 Time: 16:25
Field Filtered: No

Purge Start Time: 16:04
Total Volume Purged (mL): 3150

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 3.25 |
| Spec. Cond.(µS/cm) | 119.23 |
| Turbidity (NTU) | 6.95 |
| Temp.(°C) | 24.75 |
| DO (mg/L) | 0.27 |
| ORP (mV) | 370.20 |

Screen Interval: 17 - 27

| 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: CAP0721-PW-04-072221
DuplicateID:
QA/QC:

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

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

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

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PW-06 | Well Diameter: | 3 Inches |
| Samplers: | ALLISON HARRIS\|LUKE TART | Event: | Annual CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 27
Pump Loc: within screen
Method: Peristaltic Pump Date: 07-30-2021 Time: 16:45

*WATER VOLUME CALCULATION*

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

Water Volume = 5.058

Initial Depth to Water (ft.): 18.79 Depth to Well Bottom (ft.): 32.84

| 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 | | | |
| 16:55 | 19.50 | 200.00 | 1000.00 | 4.42 | 4.46 | 313.50 | 8.24 | 56.80 | 22.33 | Clear | None | |
| 17:00 | 20.00 | 200.00 | 1000.00 | 4.4 | 4.05 | 310.30 | 2.57 | 59.00 | 22.04 | Clear | None | |
| 17:05 | 20.06 | 200.00 | 1000.00 | 4.29 | 3.31 | 294.60 | 1.83 | 63.27 | 22.08 | Clear | None | |
| 17:10 | 20.10 | 200.00 | 1000.00 | 4.29 | 3.16 | 251.10 | 3.16 | 63.66 | 22.16 | Clear | None | |
| 17:15 | 20.10 | 200.00 | 1000.00 | 4.3 | 3.13 | 238.40 | 1.79 | 63.21 | 22.00 | Clear | None | |
| 17:20 | 20.12 | 200.00 | 1000.00 | 4.3 | 3.22 | 232.90 | 1.62 | 63.29 | 21.86 | Clear | None | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 07-30-2021 Time: 17:20
Field Filtered: No

Purge Start Time: 16:50
Total Volume Purged (mL): 6000

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.30 |
| Spec. Cond.(µS/cm) | 63.29 |
| Turbidity (NTU) | 1.62 |
| Temp.(°C) | 21.86 |
| DO (mg/L) | 3.22 |
| ORP (mV) | 232.90 |

Screen Interval: 19 - 29

| 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: CAP0721-PW-06-073021
DuplicateID:
QA/QC:

| ALL PARAMETERS ANALYZED |
|---|
| **537 MOD (13PFCAs)\|Table 3+ (20)(HL) Including HFPO-DA, Additional DEQ requested Analytes** |

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 95.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 6 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PW-07 | Well Diameter: | 2 Inches |
| Samplers: | ALLISON HARRIS\|LUKE TART | Event: | Annual CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: --
Pump Loc: --
Method: Bailer Date: 07-21-2021 Time: 16:40

*WATER VOLUME CALCULATION*

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

Water Volume = 0.742

Initial Depth to Water (ft.): 37.22 Depth to Well Bottom (ft.): 41.86

| 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 | | | |
| 16:48 | -- | -- | 0.00 | 4.93 | 8.21 | 282.40 | 10.83 | 45.20 | 29.48 | Clear | None | Well purged dry on previous visit, sampling. |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Five Well Volume Date: 07-21-2021 Time: 16:45
Field Filtered: No

Purge Start Time: 16:45
Total Volume Purged (mL): 0

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.93 |
| Spec. Cond.(µS/cm) | 45.20 |
| Turbidity (NTU) | 10.83 |
| Temp.(°C) | 29.48 |
| DO (mg/L) | 8.21 |
| ORP (mV) | 282.40 |

Screen Interval: 28 - 38

| 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: CAP0721-PW-07-072121
DuplicateID:
QA/QC:

**ALL PARAMETERS ANALYZED**

**537 MOD (13PFCAs)|Table 3+ (20)(HL) Including HFPO-DA**

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 89.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 2 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

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# RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PW-09 | Well Diameter: 2 Inches

Samplers: BRANDON WEIDNER|DANIELLE DELGADO | Event: Annual CAP | Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 52

Pump Loc: within screen

Method: Double valve pump | Date: 07-09-2021 | Time: 09:20

*WATER VOLUME CALCULATION*

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

Water Volume = 5.258

Initial Depth to Water (ft.): 24.8 | 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 | | | |
| 09:55 | 30.42 | 900.00 | 9000.00 | 11.17 | 1.94 | 101.40 | 12.87 | 594.53 | 20.16 | Clear | None | |
| 10:00 | 31.03 | 900.00 | 4500.00 | 10.22 | 3.31 | -57.70 | 182.43 | 204.14 | 17.99 | Murky | None | |
| 10:10 | 34.42 | 700.00 | 7000.00 | 8.79 | 2.37 | -105.30 | 140.56 | 129.04 | 18.34 | Cloudy | None | Turned pressure down |
| 10:20 | 34.52 | 700.00 | 7000.00 | 7.63 | 0.53 | -147.30 | 107.16 | 115.89 | 18.20 | Cloudy | None | |
| 10:25 | 34.52 | 700.00 | 3500.00 | 7.37 | 0.54 | -123.60 | 148.44 | 111.15 | 18.16 | Cloudy | None | |
| 10:30 | 34.52 | 700.00 | 3500.00 | 7.24 | 0.51 | -112.80 | 118.63 | 107.89 | 18.12 | Cloudy | None | |
| 10:40 | 34.52 | 700.00 | 7000.00 | 7.07 | 0.47 | -104.90 | 121.25 | 103.74 | 18.09 | Cloudy | None | |
| 10:45 | 34.52 | 700.00 | 3500.00 | 7.06 | 0.50 | -99.80 | 109.99 | 102.40 | 18.35 | Cloudy | None | |
| 10:50 | 34.52 | 700.00 | 3500.00 | 6.99 | 0.39 | -100.30 | 73.73 | 101.60 | 18.20 | Cloudy | None | |
| 10:55 | 34.52 | 700.00 | 3500.00 | 6.98 | 0.44 | -89.10 | 94.76 | 99.78 | 18.34 | Cloudy | None | |
| 11:00 | 34.52 | 700.00 | 3500.00 | 6.93 | 0.49 | -97.40 | 93.35 | 98.60 | 18.40 | Cloudy | None | |
| 11:05 | 34.52 | 700.00 | 3500.00 | 6.91 | 0.46 | -97.00 | 67.45 | 98.11 | 18.47 | Cloudy | None | |
| 11:10 | 34.52 | 700.00 | 3500.00 | 6.91 | 0.42 | -96.20 | 59.53 | 97.00 | 18.30 | Cloudy | None | |
| 11:15 | 34.52 | 700.00 | 3500.00 | 6.88 | 0.51 | -97.70 | 87.93 | 95.94 | 18.42 | Cloudy | None | |
| 11:20 | 34.52 | 700.00 | 3500.00 | 6.9 | 0.52 | -96.10 | 92.34 | 95.35 | 18.33 | Cloudy | None | |
| 11:30 | 34.52 | 700.00 | 7000.00 | 6.88 | 0.58 | -96.80 | 82.56 | 94.55 | 18.30 | Cloudy | None | |
| 11:35 | 34.52 | 700.00 | 3500.00 | 6.86 | 0.46 | -97.30 | 77.85 | 93.98 | 18.30 | Cloudy | None | |
| 11:40 | 34.52 | 700.00 | 3500.00 | 6.81 | 0.44 | -99.30 | 61.87 | 93.48 | 18.30 | Cloudy | None | |
| 11:45 | 34.52 | 700.00 | 3500.00 | 6.8 | 0.47 | -99.00 | 58.98 | 93.80 | 18.69 | Cloudy | None | |
| 11:55 | 34.52 | 700.00 | 7000.00 | 6.86 | 0.20 | -104.30 | 57.45 | 92.45 | 18.67 | Cloudy | None | |
| 12:00 | 34.52 | 700.00 | 3500.00 | 6.83 | 0.93 | -99.30 | 54.56 | 95.09 | 18.15 | Cloudy | None | |
| 12:05 | 34.52 | 700.00 | 3500.00 | 6.84 | 0.97 | -97.40 | 65.85 | 94.14 | 18.56 | Cloudy | None | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --

Method: Five Well Volume | Date: 07-09-2021 | Time: 12:10

Field Filtered: Yes

Purge Start Time: 09:45

Total Volume Purged (mL): 101000

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 6.84 |
| Spec. Cond.(µS/cm) | 94.14 |
| Turbidity (NTU) | 65.85 |
| Temp.(°C) | 18.56 |
| DO (mg/L) | 0.97 |
| ORP (mV) | -97.40 |

Screen Interval: 44 - 54

| 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: CAP0721-PW-09-070921

DuplicateID: CAP0721-PW-09-070921-Z

QA/QC:

**ALL PARAMETERS ANALYZED**

537 MOD (13PFCAs)|Table 3+ (20)(HL) Including HFPO-DA

| WEATHER CONDITIONS | | | |
|---|---|---|---|
| Temperature (F): | 80.00 | Water Quality Condition: | N/A |
| | | Water Clarity: | N/A |

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| | | | |
|---|---|---|---|
| Sky: | Sunny | **Water Color:** | N/A |
| Precipitation: | None | **Water Odor:** | N/A |
| Wind (mph) | 7 | | |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PW-11 | Well Diameter: | Inches |
| Samplers: | CHRIS MCGINNESS\|JOHNATHAN CAUDILL | Event: | Annual CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: --
Pump Loc: within screen
Method: Electric Submersible Pump Date: 07-23-2021 Time: 11:35

*WATER VOLUME CALCULATION*

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

Water Volume = --

Initial Depth to Water (ft.): -- 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 | | | |
| 11:35 | -- | -- | 0.00 | 3.79 | 4.52 | 237.00 | 0.79 | 429.41 | 23.12 | Clear | No | Grab sample from black creek well |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Grab Date: 07-23-2021 Time: 11:35
Field Filtered: No

Purge Start Time: 11:35
Total Volume Purged (mL): --

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 3.79 |
| Spec. Cond.(µS/cm) | 429.41 |
| Turbidity (NTU) | 0.79 |
| Temp.(°C) | 23.12 |
| DO (mg/L) | 4.52 |
| ORP (mV) | 237.00 |

Screen Interval: 53 - 63

| 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 (13PFCAs)\|Table 3+ (20)(HL) Including HFPO-DA** |

Sample ID: CAP0721-PW-11-072321
DuplicateID:
QA/QC:

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 82.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 6 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

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# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PZ-22 | Well Diameter: | .75 Inches |
| Samplers: | BRANDON WEIDNER\|DANIELLE DELGADO | Event: | Annual CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 45
Pump Loc: within screen
Method: Peristaltic Pump Date: 07-23-2021 Time: 10:52

*WATER VOLUME CALCULATION*

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

Water Volume = 0.395

Initial Depth to Water (ft.): 6.86 Depth to Well Bottom (ft.): 50.79

| 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 | | | |
| 11:10 | -- | 350.00 | 3500.00 | 4.19 | 0.09 | 223.90 | 47.50 | 76.94 | 20.38 | Cloudy | None | NO DTW due to 0.75 inch well |
| 11:15 | -- | 350.00 | 1750.00 | 4.22 | 0.06 | 209.90 | 12.20 | 78.01 | 20.42 | Clear | None | |
| 11:20 | -- | 350.00 | 1750.00 | 4.28 | 0.05 | 201.30 | 3.59 | 79.26 | 20.06 | Clear | None | |
| 11:25 | -- | 350.00 | 1750.00 | 4.36 | 0.04 | 192.40 | 0.96 | 78.88 | 20.20 | Clear | None | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 07-23-2021 Time: 11:25
Field Filtered: No

Purge Start Time: 11:00
Total Volume Purged (mL): 8750

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.36 |
| Spec. Cond.(µS/cm) | 78.88 |
| Turbidity (NTU) | 0.96 |
| Temp.(°C) | 20.20 |
| DO (mg/L) | 0.04 |
| ORP (mV) | 192.40 |

Screen Interval: 36.0-46.0

| 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: CAP0721-PZ-22-072321
DuplicateID:
QA/QC:

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

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 82.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 6 |

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

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | River Water Intake2 | Project Manager: | Tracy Ovbey |
| Samplers: | DANIELLE DELGADO\|KEN STUART\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 07-27-2021 | Time: | 15:21 | 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 | | | | |
| RIVER-WATER-INTAKE2-24-072821 | 07-28-2021 04:06 | | 6.91 | 7.13 | 448.40 | 12.40 | 142.78 | 31.00 | Clear | None | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 07-27-2021 05:06 | Multi Meter ID: | -- |
| ISCO End Date and Time: | 07-28-2021 04:06 | Old Outfall Bypass(Yes/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) |

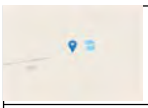
**ALL PARAMETERS ANALYZED**

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 94.00 |
| Sky: | Partly Sunny |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| Latitude: | 34.8432986 |
| Longitude: | -78.835556 |



GPS Location (if collected)

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# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | SEEP-A-EFF | Project Manager: | Tracy Ovbey |
| Samplers: | DANIELLE DELGADO\|KEN STUART\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 07-27-2021 | Time: | 14:33 | 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 | | | | |
| CAP0721-SEEP-A-EFF-24-072921 | 7/29/2021 14:24 | | 4.64 | 4.48 | 308.40 | 0.02 | 117.61 | 27.39 | Clear | No | | ISCO had to be restarted due to equipment failure. |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 7/28/2021 15:24 | Multi Meter ID: | -- |
| ISCO End Date and Time: | 7/29/2021 14:24 | Old Outfall Bypass(Yes/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**

**Table 3+ (20)(LL) Including HFPO-DA, 537 MOD (13 PFCAs)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 90.00 |
| Sky: | Partly Cloudy |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| Latitude: | 34.8451702 |
| Longitude: | -78.825393 |

GPS Location (if collected)

ISCO and dry bypass.

Damage from 4 in storm.

PARSONS

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | SEEP-B-EFF | Project Manager: | Tracy Ovbey |
| Samplers: | DANIELLE DELGADO\|KEN STUART\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 07-27-2021 | Time: | 16:47 | 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 | | | | |
| CAP0721-SEEP-B-EFF-24-072821 | 07-28-2021 05:00 | | 5.58 | 6.07 | 168.30 | 7.48 | 91.99 | 27.99 | Clear | None | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 07-27-2021 06:00 | Multi Meter ID: | -- |
| ISCO End Date and Time: | 07-28-2021 05:00 | Old Outfall Bypass(Yes/No): | -- |

**SAMPLE SET**

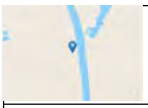
| Parameter | Bottle | Pres. | Method |
|---|---|---|---|
| PFAS | 2-250 mL poly | NP | 537 Mod Including HFPO-DA |
| PFAS | 250 mL poly | NP | Table 3+ (19)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (20)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (19)(HL) |
| PFAS | 250 mL poly | NP | Table 3+ (21)(LL)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

**Table 3+ (20)(LL) Including HFPO-DA, 537 MOD (13 PFCAs)**

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 88.00 |
| Sky: | Partly Sunny |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| Latitude: | 34.8422105 |
| Longitude: | -78.8249451 |



GPS Location (if collected)

CAP effluent

Cell not bypassing.

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | SEEP-C-EFF | Project Manager: | Tracy Ovbey |
| Samplers: | CHARLES PACE\|JELANI GILL\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 07-27-2021 | Time: | 16:40 | 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 | | | | |
| CAP0721-SEEP-C-EFF-24-072821 | 07-28-2021 05:30 | | 6.34 | 2.11 | 94.50 | 37.99 | 83.85 | 29.22 | Clear | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 07-27-2021 06:30 | Multi Meter ID: | 706682 |
| ISCO End Date and Time: | 07-28-2021 05:30 | Old Outfall Bypass(Yes/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**

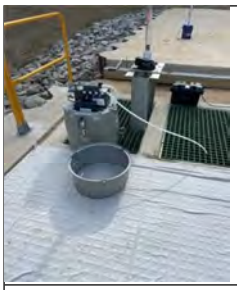
**Table 3+ (20)(LL) Including HFPO-DA, 537 MOD (13 PFCAs)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 90.00 |
| Sky: | Partly Sunny |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| Latitude: | 34.8383818287727 |
| Longitude: | -78.8243773207803 |

GPS Location (if collected)



ISCO at effluent basin.

No Bypass

PARSONS

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | SEEP-D-EFF | Project Manager: | Tracy Ovbey |
| Samplers: | DANIELLE DELGADO\|KEN STUART\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 07-27-2021 | Time: | 17:18 | 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 | | | | |
| CAP0721-SEEP-D-EFF-24-072821 | 7/28/2021 5:36 | | 4.87 | 2.01 | 279.20 | 3.57 | 111.01 | 26.22 | Clear | None | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 07-27-2021 06:36 | Multi Meter ID: | -- |
| ISCO End Date and Time: | 7/28/2021 5:36 | Old Outfall Bypass(Yes/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**

**Table 3+ (20)(LL) Including HFPO-DA, 537 MOD (13 PFCAs)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 84.00 |
| Sky: | Partly Sunny |
| Precipitation: | None |
| Wind (mph) | 4 |

| | |
|---|---|
| Latitude: | 34.837344 |
| Longitude: | -78.8242332 |

GPS Location (if collected)

Seep D Effluent not bypassing

Seep D effluent CAP ISCO

PARSONS

# RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: SMW-10 | Well Diameter: 2 Inches

Samplers: BRANDON WEIDNER|CHARLES PACE | Event: Annual CAP | Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: --

Pump Loc: within screen

Method: Peristaltic Pump | Date: 07-30-2021 | Time: 14:55

*WATER VOLUME CALCULATION*

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

Water Volume = 3.643

Initial Depth to Water (ft.): 29.28 | Depth to Well Bottom (ft.): 52.05

| 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 | | | |
| 15:05 | 29.30 | 280.00 | 1400.00 | 5.38 | 0.24 | 172.70 | 58.07 | 88.42 | 23.40 | Cloudy | None | |
| 15:10 | 29.30 | 280.00 | 1400.00 | 5.21 | 0.16 | 173.40 | 82.31 | 87.46 | 23.11 | Cloudy | None | |
| 15:15 | 29.30 | 280.00 | 1400.00 | 4.74 | 0.15 | 190.80 | 74.82 | 87.22 | 22.82 | Cloudy | None | |
| 15:20 | 29.30 | 280.00 | 1400.00 | 4.62 | 0.14 | 187.60 | 56.59 | 86.48 | 22.63 | Cloudy | None | |
| 15:25 | 29.30 | 280.00 | 1400.00 | 4.64 | 0.14 | 179.10 | 38.83 | 87.11 | 23.47 | Cloudy | None | |
| 15:30 | 29.30 | 280.00 | 1400.00 | 4.61 | 0.11 | 164.60 | 30.23 | 86.46 | 22.75 | Cloudy | None | |
| 15:35 | 29.30 | 280.00 | 1400.00 | 4.56 | 0.13 | 156.80 | 24.98 | 86.05 | 22.94 | Cloudy | None | |
| 15:40 | 29.30 | 280.00 | 1400.00 | 4.64 | 0.11 | 140.30 | 18.82 | 85.94 | 22.57 | Clear | None | |
| 15:45 | 29.30 | 280.00 | 1400.00 | 4.64 | 0.11 | 120.50 | 13.38 | 86.15 | 22.38 | Clear | None | |
| 15:50 | 29.30 | 280.00 | 1400.00 | 4.66 | 0.11 | 103.20 | 9.58 | 85.90 | 22.88 | Clear | None | |
| 15:55 | 29.30 | 280.00 | 1400.00 | 4.74 | 0.10 | 81.70 | 8.18 | 86.18 | 22.65 | Clear | None | |
| 16:00 | 29.30 | 280.00 | 1400.00 | 4.74 | 0.11 | 70.40 | 9.88 | 86.23 | 23.08 | Clear | None | |
| 16:05 | 29.30 | 280.00 | 1400.00 | 4.83 | 0.10 | 51.30 | 8.03 | 85.72 | 22.67 | Clear | None | |
| 16:10 | 29.30 | 280.00 | 1400.00 | 4.89 | 0.11 | 42.60 | 7.79 | 86.29 | 23.40 | Clear | None | |
| 16:15 | 29.30 | 280.00 | 1400.00 | 4.94 | 0.10 | 34.20 | 6.53 | 86.06 | 22.66 | Clear | None | |
| 16:20 | 29.30 | 280.00 | 1400.00 | 4.95 | 0.09 | 29.90 | 5.74 | 86.22 | 22.76 | Clear | None | |
| 16:25 | 29.30 | 280.00 | 1400.00 | 5 | 0.09 | 25.50 | 3.25 | 86.08 | 23.05 | Clear | None | |
| 16:30 | 29.30 | 280.00 | 1400.00 | 5.05 | 0.08 | 17.40 | 3.95 | 86.09 | 22.81 | Clear | None | |
| 16:35 | 29.30 | 280.00 | 1400.00 | 5.07 | 0.08 | 8.40 | 5.48 | 86.20 | 22.93 | Clear | None | |
| 16:40 | 29.30 | 280.00 | 1400.00 | 5.09 | 0.09 | 8.30 | 4.61 | 86.10 | 22.84 | Clear | None | |
| 16:45 | 29.30 | 280.00 | 1400.00 | 5.12 | 0.08 | 8.20 | 3.95 | 85.92 | 22.59 | Clear | None | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --

Method: Low Flow | Date: 07-30-2021 | Time: 16:45

Field Filtered: No

Purge Start Time: 15:00

Total Volume Purged (mL): 29400

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 5.12 |
| Spec. Cond.(µS/cm) | 85.92 |
| Turbidity (NTU) | 3.95 |
| Temp.(°C) | 22.59 |
| DO (mg/L) | 0.08 |
| ORP (mV) | 8.20 |

Screen Interval: 39 to 49

| 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: CAP0721-SMW-10-073021

DuplicateID:

QA/QC:

| ALL PARAMETERS ANALYZED |
|---|
| **537 MOD (13PFCAs)\|Table 3+ (20)(HL) Including HFPO-DA, Additional DEQ requested Analytes** |

| WEATHER CONDITIONS | | | |
|---|---|---|---|
| Temperature (F): | 93.00 | **Water Quality Condition:** | N/A |
| Sky: | Sunny | **Water Clarity:** | N/A |
| Precipitation: | None | **Water Color:** | N/A |
| | | **Water Odor:** | N/A |

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| | |
|---|---|
| Wind (mph) | 5 |

# RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: SMW-11 | Well Diameter: 2 Inches

Samplers: BRANDON WEIDNER|DANIELLE DELGADO | Event: Annual CAP | Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: -- | Pump Loc: within screen

Method: Peristaltic Pump | Date: 07-09-2021 | Time: 12:33

*WATER VOLUME CALCULATION*

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

Water Volume = 2.067

Initial Depth to Water (ft.): 12.88 | Depth to Well Bottom (ft.): 25.8

| 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 | | | |
| 12:40 | 12.99 | 300.00 | 1500.00 | 4.3 | 5.08 | 180.80 | 9.98 | 50.02 | 19.05 | Clear | No | |
| 12:45 | 12.99 | 300.00 | 1500.00 | 4.24 | 5.06 | 252.00 | 2.71 | 50.20 | 19.07 | Clear | No | |
| 12:50 | 13.00 | 300.00 | 1500.00 | 4.23 | 5.01 | 294.50 | 2.53 | 49.61 | 18.98 | Clear | No | |
| 12:55 | 13.00 | 300.00 | 1500.00 | 4.23 | 5.02 | 324.30 | 3.29 | 49.15 | 18.66 | Clear | No | |
| 13:00 | 13.01 | 300.00 | 1500.00 | 4.24 | 5.03 | 337.30 | 3.69 | 49.64 | 18.77 | Clear | No | |
| 13:05 | 13.01 | 300.00 | 1500.00 | 4.25 | 5.05 | 348.10 | 5.46 | 49.61 | 19.21 | Clear | No | |
| 13:10 | 13.01 | 300.00 | 1500.00 | 4.24 | 5.00 | 355.60 | 8.26 | 49.16 | 19.24 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: -- | Purge Start Time: 12:35

Method: Low Flow | Date: 07-09-2021 | Time: 13:10 | Total Volume Purged (mL): 10500

Field Filtered: No

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.24 |
| Spec. Cond.(µS/cm) | 49.16 |
| Turbidity (NTU) | 8.26 |
| Temp.(°C) | 19.24 |
| DO (mg/L) | 5.00 |
| ORP (mV) | 355.60 |

Screen Interval: 13 to 23

| 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: CAP0721-SMW-11-070921

DuplicateID:

QA/QC:

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

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 88.00 |
| Sky: | Partly Cloudy |
| Precipitation: | None |
| Wind (mph) | 9 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

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# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | SMW-12 | Well Diameter: | 2 Inches |
| Samplers: | ALLISON HARRIS\|MATT SCHEUER | Event: | Annual CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 93
Pump Loc: within screen
Method: Double valve pump Date: 07-07-2021 Time: 10:50

*WATER VOLUME CALCULATION*

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

Water Volume = 2.339

Initial Depth to Water (ft.): 83.38 Depth to Well Bottom (ft.): 98

| 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 | | | |
| 11:20 | --. | 200.00 | 1000.00 | 3.66 | 0.24 | -26.50 | -- | 225.06 | 19.50 | Tannish | Na | Turbidity not functioning |
| 11:30 | 83.42 | 200.00 | 2000.00 | -- | -- | -- | -- | -- | -- | -- | -- | Purge stop for aqua troll trouble shooting |
| 12:00 | 83.43 | 200.00 | 6000.00 | 3.98 | 2.34 | 139.20 | 43.24 | 225.90 | 20.82 | Clearish | Na | Red insitu unit had moisture intrusion failure on turbidity. Swapped for purple unit |
| 12:05 | 83.42 | 200.00 | 1000.00 | 4.07 | 1.53 | 119.60 | 31.87 | 226.26 | 20.37 | Clearish | Na | |
| 12:10 | 83.42 | 200.00 | 1000.00 | 3.55 | 2.20 | 162.30 | 23.84 | 226.65 | 19.75 | Clearish | Na | |
| 12:15 | 83.42 | 200.00 | 1000.00 | 3.34 | 2.21 | 181.20 | 16.51 | 226.74 | 19.14 | Clearish | Na | |
| 12:20 | 83.43 | 200.00 | 1000.00 | 3.33 | 2.22 | 194.90 | 13.44 | 227.14 | 19.32 | Clearish | Na | |
| 12:25 | 83.42 | 200.00 | 1000.00 | 3.33 | 2.11 | 206.90 | 6.53 | 227.27 | 19.27 | Clearish | Na | |
| 12:30 | 83.42 | 200.00 | 1000.00 | 3.35 | 2.08 | 238.40 | 7.20 | 226.96 | 19.66 | Clearish | Na | |
| 12:35 | 83.42 | 200.00 | 1000.00 | 3.37 | 1.92 | 246.90 | 6.00 | 226.78 | 19.76 | Clearish | Na | |
| 12:40 | 83.42 | 200.00 | 1000.00 | 3.38 | 1.85 | 258.20 | 5.10 | 226.22 | 19.67 | Clearish | Na | |
| 12:45 | 83.42 | 200.00 | 1000.00 | 3.42 | 1.77 | 264.50 | 3.59 | 226.48 | 19.76 | Clearish | Na | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 07-07-2021 Time: 12:50
Field Filtered: No

Purge Start Time: 11:15
Total Volume Purged (mL): 18000

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 3.42 |
| Spec. Cond.(µS/cm) | 226.48 |
| Turbidity (NTU) | 3.59 |
| Temp.(°C) | 19.76 |
| DO (mg/L) | 1.77 |
| ORP (mV) | 264.50 |

Screen Interval: 88 to 98

| 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 (13PFCAs)\|Table 3+ (20)(HL) Including HFPO-DA |

Sample ID: CAP0721-SMW-12-070721
DuplicateID: CAP0721-SMW-12-070721-D
QA/QC: Dup

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 86.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 3 |

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

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# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | WC-1 | Project Manager: | Tracy Ovbey |
| Samplers: | DANIELLE DELGADO\|KEN STUART\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 07-27-2021 | Time: | 11:36 | 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 | | | | |
| CAP0721-WC-1-20-072821 | 07-28-2021 04:00 | | 4.76 | 7.31 | 209.10 | 8.86 | 76.67 | 25.84 | Clear | None | Dup | Battery issues resulted in missing 4 cycles at the beginning of the program. |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 07-27-2021 09:00 | Multi Meter ID: | -- |
| ISCO End Date and Time: | 07-28-2021 04:00 | Old Outfall Bypass(Yes/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**

**Table 3+ (20)(LL) Including HFPO-DA, 537 MOD (13 PFCAs)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 86.00 |
| Sky: | Partly Sunny |
| Precipitation: | None |
| Wind (mph) | 7 |

| | |
|---|---|
| Latitude: | -- |
| Longitude: | -- |

GPS Location (if collected)

PARSONS

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | CFR-BLADEN | Project Manager: | Tracy Ovbey |
| Samplers: | CHARLES PACE\|TYLER PORRITT\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 08-19-2021 | Time: | 9:08 | 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 | | | | |
| CAP0821-CFR-BLADEN-081921 | 08-19-2021 09:20 | | 6.54 | 6.31 | 170.10 | 10.34 | 113.27 | 28.94 | Murky | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | Bottle Grab | Tubing Depth (ft): | 7.5 | Distance to River Right: | 19 |
| Sampling Location: | Thalweg | Multi Meter Used: | Insitu Aqua Troll | Distance to River Left: | 68 |
| Total Depth to Bottom of Channel (ft): | 15.1 | Multi Meter ID: | 766679 | Distance to River (Right/Left) Units: | yd |

**SAMPLE SET**

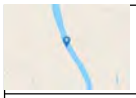
| Parameter | Bottle | Pres. | Method |
|---|---|---|---|
| PFAS | 2-250 mL poly | NP | 537 Mod Including HFPO-DA |
| PFAS | 250 mL poly | NP | Table 3+ (19)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (20)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (19)(HL) |
| PFAS | 250 mL poly | NP | Table 3+ (21)(LL)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

**ALL PARAMETERS ANALYZED**

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 89.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| Latitude: | 34.7720986 |
| Longitude: | -78.798229 |



GPS Location (if collected)

River Right

River Left

PARSONS

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | CFR-KINGS | Project Manager: | Tracy Ovbey |
| Samplers: | TAYLOR CRITTENDEN\|TYLER PORRITT\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 08-25-2021 | Time: | 10:22 | 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 | | | | |
| CAP0821-CFR-KINGS-082521 | 08-25-2021 10:40 | | 6.66 | 5.53 | 141.90 | 4.09 | 122.88 | 29.77 | Clear | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | Peri Pump Grab | Tubing Depth (ft): | 8.25 | Distance to River Right: | 78 |
| Sampling Location: | Thalweg | Multi Meter Used: | Insitu Aqua Troll | Distance to River Left: | 38 |
| Total Depth to Bottom of Channel (ft): | 16.5 | Multi Meter ID: | 766679 | Distance to River (Right/Left) Units: | yd |

**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 |

**ALL PARAMETERS ANALYZED**

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 82.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 1 |

Latitude: 34.4064487
Longitude: -78.2944344

GPS Location (if collected)

River Right

River Left

PARSONS

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | CFR-RM-76 | Project Manager: | Tracy Ovbey |
| Samplers: | LUKE TART\|TYLER PORRITT\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 08-18-2021 | Time: | 12:34 | 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 | | | | |
| CAP0821-CFR-RM-76-081821 | 08-18-2021 12:50 | | 7.29 | 6.59 | 94.50 | 3.91 | 120.18 | 29.71 | Clear | None | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | Peri Pump Grab | Tubing Depth (ft): | 9 | Distance to River Right: | 18 |
| Sampling Location: | Thalweg | Multi Meter Used: | Insitu Aqua Troll | Distance to River Left: | 71 |
| Total Depth to Bottom of Channel (ft): | 18.3 | Multi Meter ID: | 766679 | Distance to River (Right/Left) Units: | yd |

**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 |

**ALL PARAMETERS ANALYZED**

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 82.00 |
| Sky: | Cloudy |
| Precipitation: | None |
| Wind (mph) | 6 |

| | |
|---|---|
| Latitude: | 34.854563151168 |
| Longitude: | -78.8271650647447 |

GPS Location (if collected)

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | CFR-TARHEEL | Project Manager: | Tracy Ovbey |
| Samplers: | CHARLES PACE\|TYLER PORRITT\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 08-19-2021 | Time: | 09:35 | General Comments: | CAP0821-CFR-TARHEEL-24-082021 also collected. Composite time: 8/19/21 8:30-8/20/21 7:30. |

| Spl ID | Spl Date | Time | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | QA/QC | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | mg/L | mV | NTU | µS/cm | °C | | | | |
| CAP0821-CFR-TARHEEL-081921 | 08-19-2021 09:50 | | 7.49 | 6.24 | 128.90 | 7.54 | 117.07 | 29.63 | Murky | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | Peri Pump Grab | Tubing Depth (ft): | 7.5 | Distance to River Right: | 23 |
| Sampling Location: | Thalweg | Multi Meter Used: | Insitu Aqua Troll | Distance to River Left: | 60 |
| Total Depth to Bottom of Channel (ft): | 15.4 | Multi Meter ID: | 766679 | Distance to River (Right/Left) Units: | yd |

**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 |

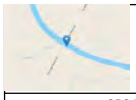
**ALL PARAMETERS ANALYZED**

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 81.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 2 |

| | |
|---|---|
| Latitude: | 34.7442443 |
| Longitude: | -78.7854231 |



GPS Location (if collected)

River Right

River Left

PARSONS

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | GBC-1 | Project Manager: | Tracy Ovbey |
| Samplers: | LUKE TART\|TYLER PORRITT\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 08-18-2021 | Time: | 16:00 | 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 | | | | |
| CAP0821-GBC-1-081821 | 08-18-2021 16:10 | | 5.69 | 7.14 | 191.00 | 3.29 | 93.07 | 28.93 | Clear | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | Bottle Grab | Multi Meter Used: | Insitu Aqua Troll | Flow Rate: | -- |
| | | Multi Meter ID: | 766679 | Flow Rate Units: | -- |

**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) |

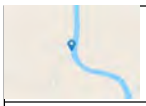
**ALL PARAMETERS ANALYZED**

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 85.00 |
| Sky: | Partly Sunny |
| Precipitation: | None |
| Wind (mph) | 7 |

| | |
|---|---|
| Latitude: | 34.8149285633599 |
| Longitude: | -78.8213678053267 |



GPS Location (if collected)

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

Flow location after sampling

PARSONS

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | LOCK-DAM-NORTH | Project Manager: | Tracy Ovbey |
| Samplers: | CHARLES PACE\|CURTIS BROWN\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 08-18-2021 | Time: | 15:46 | General Comments: | Flow: 275ml in 9.5 seconds. Measured using sample bottle and timer. |

| Spl ID | Spl Date | Time | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | QA/QC | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | mg/L | mV | NTU | µS/cm | °C | | | | |
| CAP0821-LOCK-DAM-NORTH-081821 | 08-18-2021 16:05 | | 6.22 | 5.72 | 162.10 | 5.79 | 102.88 | 30.33 | Clear | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | Bottle Grab | Multi Meter Used: | Insitu Aqua Troll | Flow Rate: | |
| | | Multi Meter ID: | 706751 | Flow Rate Units: | |

**SAMPLE SET**

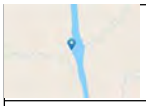
| Parameter | Bottle | Pres. | Method |
|---|---|---|---|
| PFAS | 2-250 mL poly | NP | 537 Mod Including HFPO-DA |
| PFAS | 250 mL poly | NP | Table 3+ (19)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (20)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (19)(HL) |
| PFAS | 250 mL poly | NP | Table 3+ (21)(LL)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

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 85.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 4 |

| | |
|---|---|
| Latitude: | 34.8337968 |
| Longitude: | -78.8236368 |



GPS Location (if collected)

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

Picture 1

Picture 2

PARSONS

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | LOCK-DAM-SEEP | Project Manager: | Tracy Ovbey |
| Samplers: | CHARLES PACE\|CURTIS BROWN\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 08-18-2021 | Time: | 16:14 | General Comments: | Flow: 7 liters in 5 seconds. Measured using bucket and timer. |

| Spl ID | Spl Date | Time | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | QA/QC | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | mg/L | mV | NTU | µS/cm | °C | | | | |
| CAP0821-LOCK-DAM-SEEP-081821 | 08-18-2021 15:55 | | 5.98 | 5.85 | 169.00 | 23.50 | 111.61 | 30.54 | Clear | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | Bottle Grab | Multi Meter Used: | Insitu Aqua Troll | Flow Rate: | -- |
| | | Multi Meter ID: | 706751 | Flow Rate Units: | -- |

**SAMPLE SET**

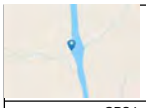
| Parameter | Bottle | Pres. | Method |
|---|---|---|---|
| PFAS | 2-250 mL poly | NP | 537 Mod Including HFPO-DA |
| PFAS | 250 mL poly | NP | Table 3+ (19)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (20)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (19)(HL) |
| PFAS | 250 mL poly | NP | Table 3+ (21)(LL)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

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 85.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 4 |

| | |
|---|---|
| Latitude: | 34.8337889 |
| Longitude: | -78.823609 |



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

Seep to river

PARSONS

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | LTW-01 | Well Diameter: | 2 Inches |
| Samplers: | MATT SCHEUER\|TAYLOR CRITTENDEN | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 23.5
Pump Loc: within screen
Method: Peristaltic Pump Date: 08-31-2021 Time: 13:41

*WATER VOLUME CALCULATION*

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

Water Volume = 1.55

Initial Depth to Water (ft.): 16.31 Depth to Well Bottom (ft.): 26

| Time | DTW | Pump Rate | Vol. | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 hr | ft | mL/min | mL | pH units | mg/L | mV | NTU | µS/cm | °C | | | |
| 13:45 | 16.95 | 400.00 | 0.00 | 4 | 0.10 | 189.50 | 27.50 | 116.65 | 20.24 | Clear | No | |
| 13:50 | 17.02 | 400.00 | 2000.00 | 3.99 | 0.06 | 202.70 | 47.20 | 116.80 | 19.89 | Clear | No | |
| 13:55 | 17.02 | 400.00 | 2000.00 | 3.9 | 0.15 | 298.00 | 44.77 | 125.58 | 20.49 | Clear | No | |
| 14:00 | 17.01 | 400.00 | 2400.00 | 3.87 | 0.18 | 323.30 | 45.02 | 129.32 | 20.96 | Clear | No | |
| 14:05 | 17.01 | 400.00 | 2000.00 | 3.87 | 0.14 | 358.70 | 44.53 | 128.47 | 20.64 | Clear | No | |
| 14:10 | 17.01 | 400.00 | 2000.00 | 3.89 | 0.12 | 355.60 | 36.91 | 126.04 | 20.76 | Clear | No | |
| 14:15 | 17.01 | 400.00 | 2000.00 | 3.9 | 0.12 | 348.50 | 3.55 | 125.84 | 20.45 | Clear | No | |
| 14:20 | 17.02 | 400.00 | 2000.00 | 3.91 | 0.12 | 343.60 | 1.92 | 125.22 | 20.35 | Clear | No | |
| 14:25 | 17.02 | 400.00 | 2000.00 | 3.91 | 0.13 | 341.50 | 1.78 | 124.65 | 20.69 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 08-31-2021 Time: 14:25
Field Filtered: No

Purge Start Time: 13:45
Total Volume Purged (mL): 16400

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 3.91 |
| Spec. Cond.(µS/cm) | 124.65 |
| Turbidity (NTU) | 1.78 |
| Temp.(°C) | 20.69 |
| DO (mg/L) | 0.13 |
| ORP (mV) | 341.50 |

Screen Interval: 11.0-26.0

| 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+ (21)(HL) Including HFPO-DA and PFHpA** |

Sample ID: CAP0821-LTW-01-083121
DuplicateID:
QA/QC:

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 91.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 9 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | LTW-02 | Well Diameter: | 2 Inches |
| Samplers: | MATT SCHEUER\|TAYLOR CRITTENDEN | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 35.5
Pump Loc: within screen
Method: Peristaltic Pump Date: 08-31-2021 Time: 12:23

*WATER VOLUME CALCULATION*

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

Water Volume = 4.603

Initial Depth to Water (ft.): 9.23 Depth to Well Bottom (ft.): 38

| 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 | 9.38 | 380.00 | 1900.00 | 4.97 | 0.11 | 185.80 | 13.89 | 76.69 | 22.77 | Clear | No | |
| 12:40 | 9.38 | 380.00 | 1900.00 | 4.92 | 0.08 | 179.80 | 11.52 | 75.49 | 22.22 | Clear | No | |
| 12:45 | 9.40 | 380.00 | 1900.00 | 4.89 | 0.05 | 173.10 | 8.62 | 74.73 | 22.29 | Clear | No | |
| 12:50 | 9.40 | 380.00 | 1900.00 | 4.89 | 0.06 | 164.70 | 9.24 | 74.90 | 21.81 | Clear | No | |
| 12:55 | 9.41 | 380.00 | 1900.00 | 4.88 | 0.05 | 157.90 | 16.64 | 74.59 | 22.47 | Clear | No | |
| 13:00 | 9.40 | 380.00 | 1900.00 | 4.9 | 0.05 | 150.70 | 17.91 | 74.72 | 22.39 | Clear | No | |
| 13:05 | 9.40 | 380.00 | 1900.00 | 4.9 | 0.05 | 146.60 | 21.25 | 73.93 | 22.51 | Clear | No | |
| 13:10 | 9.40 | 380.00 | 1900.00 | 4.89 | 0.04 | 141.60 | 12.36 | 74.96 | 22.45 | Clear | Na | |
| 13:15 | 9.40 | 380.00 | 1900.00 | 4.88 | 0.04 | 137.70 | 13.42 | 74.98 | 22.22 | Clear | Na | |
| 13:20 | 9.40 | 380.00 | 1900.00 | 4.88 | 0.04 | 134.70 | 14.69 | 74.99 | 22.48 | Clear | Na | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 08-31-2021 Time: 13:25
Field Filtered: No

Purge Start Time: 12:30
Total Volume Purged (mL): 19000

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.88 |
| Spec. Cond.(µS/cm) | 74.99 |
| Turbidity (NTU) | 14.69 |
| Temp.(°C) | 22.48 |
| DO (mg/L) | 0.04 |
| ORP (mV) | 134.70 |

Screen Interval: 28.0-38.0

| 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+ (21)(HL) Including HFPO-DA and PFHpA** |

Sample ID: CAP0821-LTW-02-083121
DuplicateID:
QA/QC:

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 90.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 9 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | LTW-03 | Well Diameter: | 2 Inches |
| Samplers: | MATT SCHEUER\|TAYLOR CRITTENDEN | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 27.5
Pump Loc: within screen
Method: Peristaltic Pump Date: 08-31-2021 Time: 10:01

*WATER VOLUME CALCULATION*

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

Water Volume = 482.366

Initial Depth to Water (ft.): 12.71 Depth to Well Bottom (ft.): 3027.5

| 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 | | | |
| 10:45 | 13.19 | 200.00 | 1000.00 | 4.46 | 0.14 | 196.30 | 1.20 | 98.76 | 19.72 | Clear | No | |
| 10:50 | 13.23 | 200.00 | 1000.00 | 4.44 | 0.11 | 198.40 | 0.85 | 98.73 | 19.57 | Clear | No | |
| 10:55 | 13.28 | 200.00 | 1000.00 | 4.35 | 0.10 | 202.80 | 1.79 | 98.82 | 19.60 | Clear | No | |
| 11:00 | 13.31 | 200.00 | 1000.00 | 4.28 | 0.09 | 206.50 | 2.77 | 98.86 | 19.56 | Clear | No | |
| 11:05 | 13.30 | 200.00 | 1000.00 | 4.24 | 0.09 | 209.90 | 4.23 | 98.44 | 19.61 | Clear | No | |
| 11:10 | 13.32 | 200.00 | 1000.00 | 4.22 | 0.09 | 209.20 | 6.97 | 98.32 | 19.48 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 08-31-2021 Time: 11:10
Field Filtered: No

Purge Start Time: 10:40
Total Volume Purged (mL): 6000

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.22 |
| Spec. Cond.(µS/cm) | 98.32 |
| Turbidity (NTU) | 6.97 |
| Temp.(°C) | 19.48 |
| DO (mg/L) | 0.09 |
| ORP (mV) | 209.20 |

Screen Interval: 15.0-30.0

**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: CAP0821-LTW-03-083121
DuplicateID:
QA/QC:

**ALL PARAMETERS ANALYZED**

**537 MOD (13 PFCAs)|Table 3+ (21)(HL) Including HFPO-DA and PFHpA**

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 94.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 2 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

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# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | LTW-04 | Well Diameter: | 2 Inches |
| Samplers: | MATT SCHEUER\|TAYLOR CRITTENDEN | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 19.5
Pump Loc: within screen
Method: Peristaltic Pump Date: 08-30-2021 Time: 14:29

*WATER VOLUME CALCULATION*

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

Water Volume = 3.048

Initial Depth to Water (ft.): 7.95 Depth to Well Bottom (ft.): 27

| 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 | | | |
| 14:45 | 9.99 | 150.00 | 1500.00 | 4.44 | 0.18 | 159.00 | 15.28 | 79.99 | 27.05 | Clear | No | |
| 14:50 | 10.28 | 150.00 | 750.00 | 4.49 | 0.15 | 164.30 | 9.97 | 78.95 | 27.52 | Clear | No | |
| 14:55 | 10.61 | 150.00 | 750.00 | 4.52 | 0.14 | 166.30 | 9.30 | 78.35 | 27.36 | Clear | No | |
| 15:00 | 10.83 | 150.00 | 750.00 | 4.58 | 0.11 | 169.30 | 14.71 | 76.58 | 27.98 | Clear | No | |
| 15:05 | 11.01 | 150.00 | 750.00 | 4.67 | 0.11 | 167.20 | 15.19 | 75.51 | 27.70 | Clear | No | |
| 15:10 | 11.11 | 150.00 | 750.00 | 4.66 | 0.10 | 168.20 | 14.85 | 73.38 | 28.39 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 08-30-2021 Time: 15:10
Field Filtered: No

Purge Start Time: 14:35
Total Volume Purged (mL): 5250

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.66 |
| Spec. Cond.(µS/cm) | 73.38 |
| Turbidity (NTU) | 14.85 |
| Temp.(°C) | 28.39 |
| DO (mg/L) | 0.10 |
| ORP (mV) | 168.20 |

Screen Interval: 12.0-27.0

| 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: CAP0821-LTW-04-083021
DuplicateID:
QA/QC:

| ALL PARAMETERS ANALYZED |
|---|
| **537 MOD (13 PFCAs)\|Table 3+ (21)(HL) Including HFPO-DA and PFHpA** |

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 95.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 10 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

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# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | LTW-05 | Well Diameter: | 2 Inches |
| Samplers: | TAYLOR CRITTENDEN\|TYLER PORRITT | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 32
Pump Loc: within screen
Method: Peristaltic Pump Date: 08-26-2021 Time: 14:55

*WATER VOLUME CALCULATION*

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

Water Volume = 6.091

Initial Depth to Water (ft.): 9.23 Depth to Well Bottom (ft.): 47.3

| 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 | | | |
| 15:10 | 9.33 | 270.00 | 1350.00 | 4.33 | 0.57 | 286.60 | 15.51 | 112.18 | 23.39 | Clear | No | |
| 15:15 | 9.33 | 270.00 | 1350.00 | 4.33 | 0.57 | 286.60 | 15.51 | 112.18 | 23.39 | Clear | No | |
| 15:20 | 9.33 | 270.00 | 1350.00 | 4.37 | 0.12 | 239.30 | 35.47 | 110.89 | 22.88 | Clear | No | |
| 15:25 | 9.33 | 270.00 | 1350.00 | 4.38 | 0.09 | 223.00 | 25.30 | 110.72 | 22.77 | Clear | No | |
| 15:30 | 9.33 | 270.00 | 1350.00 | 4.35 | 0.08 | 204.60 | 23.60 | 110.42 | 23.04 | Clear | No | |
| 15:35 | 9.33 | 270.00 | 1350.00 | 4.36 | 0.07 | 188.40 | 32.70 | 110.41 | 23.03 | Clear | No | |
| 15:40 | 9.33 | 270.00 | 1350.00 | 4.36 | 0.11 | 160.40 | 29.00 | 109.94 | 22.91 | Clear | No | |
| 15:45 | 9.33 | 270.00 | 1350.00 | 4.36 | 0.09 | 151.50 | 21.30 | 109.35 | 22.84 | Clear | No | |
| 15:50 | 9.33 | 270.00 | 1350.00 | 4.35 | 0.10 | 146.40 | 16.20 | 110.23 | 23.01 | Clear | No | |
| 15:55 | 9.33 | 270.00 | 1350.00 | 4.35 | 0.09 | 142.40 | 13.60 | 110.64 | 22.72 | Clear | No | |
| 16:00 | 9.33 | 270.00 | 1350.00 | 4.34 | 0.11 | 144.90 | 8.44 | 111.34 | 22.93 | Clear | No | |
| 16:05 | 9.33 | 270.00 | 1350.00 | 4.33 | 0.10 | 143.90 | 7.23 | 110.10 | 23.18 | Clear | No | |
| 16:10 | 9.33 | 270.00 | 1350.00 | 4.33 | 0.10 | 142.70 | 6.58 | 110.42 | 22.75 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 08-26-2021 Time: 16:10
Field Filtered: No

Purge Start Time: 15:05
Total Volume Purged (mL): 17550

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.33 |
| Spec. Cond.(µS/cm) | 110.42 |
| Turbidity (NTU) | 6.58 |
| Temp.(°C) | 22.75 |
| DO (mg/L) | 0.10 |
| ORP (mV) | 142.70 |

Screen Interval: 29.0-44.0

| 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: CAP0821-LTW-05-082621
DuplicateID:
QA/QC:

| ALL PARAMETERS ANALYZED |
|---|
| **537 MOD (13 PFCAs)\|Table 3+ (21)(HL) Including HFPO-DA and PFHpA** |

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 88.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 8 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | OLDOF-1 | Project Manager: | Tracy Ovbey |
| Samplers: | BRANDON WEIDNER\|CHARLES PACE\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 08-18-2021 | Time: | 11:54 | 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 | | | | |
| CAP0821-OLDOF-1-24-081921 | 8/19/2021 10:50 | | 4.95 | 7.25 | 234.00 | 12.30 | 158.73 | 26.74 | Clear | No | DUP | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 8/18/2021 11:50 | Multi Meter ID: | 706751 |
| ISCO End Date and Time: | 8/19/2021 10:50 | Old Outfall Bypass(Yes/No): | Yes |

**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) |

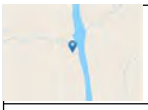
**ALL PARAMETERS ANALYZED**

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 89.00 |
| Sky: | Partly Sunny |
| Precipitation: | None |
| Wind (mph) | 4 |

| | |
|---|---|
| Latitude: | 34.831779 |
| Longitude: | -78.823623 |



GPS Location (if collected)


ISCO

Sample line

PARSONS

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | OUTFALL 002 | Project Manager: | Tracy Ovbey |
| Samplers: | BRANDON WEIDNER\|CHARLES PACE\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 08-18-2021 | Time: | 11:25 | General Comments: | Due to ISCO malfunctions, sample had to be restarted on 8/19. |

| Spl ID | Spl Date | Time | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | QA/QC | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | mg/L | mV | NTU | µS/cm | °C | | | | |
| CAP0821-OUTFALL-002-24-082021 | 8/20/2021 13:34 | | 6.41 | 6.41 | 203.10 | 22.40 | 117.96 | 28.11 | Clear | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 8/19/2021 14:34 | Multi Meter ID: | 706751 |
| ISCO End Date and Time: | 8/20/2021 13:34 | Old Outfall Bypass(Yes/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) |

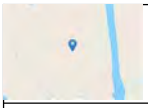
**ALL PARAMETERS ANALYZED**

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 89.00 |
| Sky: | Partly Cloudy |
| Precipitation: | None |
| Wind (mph) | 4 |

| | |
|---|---|
| Latitude: | 34.8383702198368 |
| Longitude: | -78.8285028097023 |



GPS Location (if collected)

ISCO

PARSONS

# RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PIW-1D | Well Diameter: 2 Inches

Samplers: TAYLOR CRITTENDEN|TYLER PORRITT | Event: Monthly CAP | Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 25

Pump Loc: within screen

Method: Peristaltic Pump | Date: 08-26-2021 | Time: 12:30

*WATER VOLUME CALCULATION*

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

Water Volume = 2.144

Initial Depth to Water (ft.): 18.31 | Depth to Well Bottom (ft.): 31.71

| Time | DTW | Pump Rate | Vol. | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 hr | ft | mL/min | mL | pH units | mg/L | mV | NTU | µS/cm | °C | | | |
| 12:35 | 18.32 | 230.00 | 1150.00 | 3.7 | 0.18 | 293.80 | 41.00 | 166.25 | 21.55 | Clear | No | |
| 12:40 | 18.32 | 230.00 | 1150.00 | 3.79 | 0.11 | 295.30 | 34.18 | 165.53 | 21.47 | Clear | No | |
| 12:45 | 18.32 | 230.00 | 1150.00 | 3.59 | 0.09 | 312.40 | 23.76 | 165.83 | 21.46 | Clear | No | |
| 12:50 | 18.32 | 230.00 | 1150.00 | 3.47 | 0.08 | 322.00 | 13.39 | 166.35 | 21.40 | Clear | No | |
| 12:55 | 18.32 | 230.00 | 1150.00 | 3.41 | 0.07 | 328.30 | 13.16 | 164.73 | 21.24 | Clear | No | |
| 13:00 | 18.32 | 230.00 | 1150.00 | 3.38 | 0.07 | 331.60 | 11.80 | 166.73 | 21.34 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --

Method: Low Flow | Date: 08-26-2021 | Time: 13:00

Field Filtered: No

Purge Start Time: 12:30

Total Volume Purged (mL): 6900

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 3.38 |
| Spec. Cond.(µS/cm) | 166.73 |
| Turbidity (NTU) | 11.80 |
| Temp.(°C) | 21.34 |
| DO (mg/L) | 0.07 |
| ORP (mV) | 331.60 |

Screen Interval: 24.5 to 29.5

| 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: CAP0821-PIW-1D-082621

DuplicateID:

QA/QC:

| ALL PARAMETERS ANALYZED |
|---|
| **537 MOD (13 PFCAs)\|Table 3+ (21)(HL) Including HFPO-DA and PFHpA** |

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 87.00 |
| Sky: | Partly Sunny |
| Precipitation: | None |
| Wind (mph) | 9 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PIW-1S | Well Diameter: | 2 Inches |
| Samplers: | CHARLES PACE\|TYLER PORRITT | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 21.9
Pump Loc: bottom of well
Method: Peristaltic Pump Date: 08-25-2021 Time: 15:34

*WATER VOLUME CALCULATION*

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

Water Volume = 0.166

Initial Depth to Water (ft.): 20.91 Depth to Well Bottom (ft.): 21.95

| Time | DTW | Pump Rate | Vol. | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 hr | ft | mL/min | mL | pH units | mg/L | mV | NTU | µS/cm | °C | | | |
| 15:36 | 20.95 | -- | 0.00 | 4.23 | 2.23 | 315.90 | 12.40 | 197.83 | 25.76 | Clear | No | Well pumped dry, pumped 1500 ml. Due to NTU below 20, will sample next visit. |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Peri Pump Grab Date: -- Time: --
Field Filtered: --

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

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.23 |
| Spec. Cond.(µS/cm) | 197.83 |
| Turbidity (NTU) | 12.40 |
| Temp.(°C) | 25.76 |
| DO (mg/L) | 2.23 |
| ORP (mV) | 315.90 |

Screen Interval: 7.8 - 17.8

| 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 |
|---|
| -- |

Sample ID: --
DuplicateID: --
QA/QC: --

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 92.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 4 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

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# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PIW-1S | Well Diameter: | 2 Inches |
| Samplers: | CHARLES PACE\|TYLER PORRITT | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 21.9
Pump Loc: bottom of well
Method: Peristaltic Pump Date: 8/26/2021 Time: 12:00

*WATER VOLUME CALCULATION*

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

Water Volume = 0.166

Initial Depth to Water (ft.): 20.91 Depth to Well Bottom (ft.): 21.95

| Time | DTW | Pump Rate | Vol. | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 hr | ft | mL/min | mL | pH units | mg/L | mV | NTU | µS/cm | °C | | | |
| -- | 20.95 | -- | 0.00 | 4.23 | 2.23 | 315.90 | 12.40 | 197.83 | 25.76 | Clear | No | Due to NTU below 20 on 8/25/21, sampling. Parameters from 8/25/21. |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Peri Pump Grab Date: 8/26/2021 12:10 Time: 12:10
Field Filtered: No
Purge Start Time: --
Total Volume Purged (mL): --

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.23 |
| Spec. Cond.(µS/cm) | 197.83 |
| Turbidity (NTU) | 12.40 |
| Temp.(°C) | 25.76 |
| DO (mg/L) | 2.23 |
| ORP (mV) | 315.90 |

Screen Interval: 7.8 - 17.8

| 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+ (21)(HL) Including HFPO-DA and PFHpA** |

Sample ID: CAP0821-PIW-1S-082621
DuplicateID: --
QA/QC: --

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 92.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 4 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

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# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PIW-3D | Well Diameter: | 2 Inches |
| Samplers: | CURTIS BROWN\|LUKE TART | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 25
Pump Loc: within screen
Method: Peristaltic Pump Date: 08-31-2021 Time: 13:33

*WATER VOLUME CALCULATION*

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

Water Volume = 1.525

Initial Depth to Water (ft.): 17.27 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 | | | |
| 13:45 | 17.36 | 200.00 | 0.00 | 4.16 | 0.12 | 135.70 | 33.00 | 77.95 | 20.62 | Cloudy | None | |
| 13:50 | 17.44 | 200.00 | 1000.00 | 4.05 | 0.09 | 140.40 | 11.00 | 77.70 | 20.22 | Clear | None | |
| 13:55 | 17.50 | 200.00 | 1000.00 | 4 | 0.09 | 141.20 | 6.79 | 77.41 | 20.32 | Clear | None | |
| 14:00 | 17.52 | 200.00 | 1000.00 | 4.08 | 0.09 | 135.30 | 5.56 | 75.85 | 20.24 | Clear | None | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 08-31-2021 Time: 14:00
Field Filtered: No

Purge Start Time: 13:45
Total Volume Purged (mL): 3000

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.08 |
| Spec. Cond.(µS/cm) | 75.85 |
| Turbidity (NTU) | 5.56 |
| Temp.(°C) | 20.24 |
| DO (mg/L) | 0.09 |
| ORP (mV) | 135.30 |

Screen Interval: 19 - 24

| 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+ (21)(HL) Including HFPO-DA and PFHpA** |

Sample ID: CAP0821-PIW-3D-083121
DuplicateID: CAP0821-PIW-3D-083121-D
QA/QC: Dup|MS|Rep

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 91.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 6 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PIW-7D | Well Diameter: | 2 Inches |
| Samplers: | MATT SCHEUER\|TAYLOR CRITTENDEN | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 31.5
Pump Loc: within screen
Method: Peristaltic Pump Date: 08-30-2021 Time: 11:47

*WATER VOLUME CALCULATION*

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

Water Volume = 4.608

Initial Depth to Water (ft.): 5.2 Depth to Well Bottom (ft.): 34

| 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 | | | |
| 12:00 | 5.22 | 270.00 | 1350.00 | 4.32 | 0.29 | 78.70 | 0.26 | 84.04 | 21.61 | Clear | No | |
| 12:05 | 5.22 | 270.00 | 1350.00 | 4.26 | 0.13 | 96.00 | 0.38 | 85.02 | 21.80 | Clear | No | |
| 12:10 | 5.22 | 270.00 | 1350.00 | 4.25 | 0.08 | 102.00 | 0.53 | 85.39 | 21.39 | Clear | No | |
| 12:15 | 5.22 | 270.00 | 1350.00 | 4.23 | 0.06 | 107.50 | 8.17 | 85.43 | 21.49 | Clear | No | |
| 12:20 | 5.22 | 270.00 | 1350.00 | 4.25 | 0.06 | 107.40 | 5.55 | 85.74 | 21.55 | Clear | No | |
| 12:25 | 5.22 | 270.00 | 1350.00 | 4.26 | 0.05 | 106.70 | 8.89 | 85.66 | 21.60 | Clear | No | |
| 12:30 | 5.22 | 270.00 | 1350.00 | 4.26 | 0.05 | 106.50 | 3.48 | 86.27 | 21.80 | Clear | No | |
| 12:35 | 5.22 | 270.00 | 1350.00 | 4.26 | 0.05 | 99.00 | 5.12 | 86.58 | 21.55 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 08-30-2021 Time: 12:35
Field Filtered: No

Purge Start Time: 11:55
Total Volume Purged (mL): 10800

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.26 |
| Spec. Cond.(µS/cm) | 86.58 |
| Turbidity (NTU) | 5.12 |
| Temp.(°C) | 21.55 |
| DO (mg/L) | 0.05 |
| ORP (mV) | 99.00 |

Screen Interval: 29 - 34

| 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: CAP0821-PIW-7D-083021
DuplicateID:
QA/QC:

| ALL PARAMETERS ANALYZED |
|---|
| **537 MOD (13 PFCAs)\|Table 3+ (21)(HL) Including HFPO-DA and PFHpA** |

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 90.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 7 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PIW-7S | Well Diameter: 2 Inches

Samplers: MATT SCHEUER|TAYLOR CRITTENDEN | Event: Monthly CAP | Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 16.5

Pump Loc: within screen

Method: Peristaltic Pump | Date: 08-30-2021 | Time: 10:30

*WATER VOLUME CALCULATION*

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

Water Volume = 2.061

Initial Depth to Water (ft.): 5.12 | Depth to Well Bottom (ft.): 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 | | | |
| 10:55 | 5.55 | 300.00 | 1500.00 | 5.5 | 0.28 | 24.10 | 4.21 | 126.09 | 20.76 | Clearish | Na | |
| 11:00 | 5.60 | 300.00 | 1500.00 | 5.51 | 0.18 | 1.40 | 0.07 | 125.34 | 20.75 | Clearish | Na | |
| 11:05 | 5.65 | 300.00 | 1500.00 | 5.57 | 0.18 | -9.70 | 0.46 | 124.76 | 20.56 | Clearish | Na | |
| 11:10 | 5.68 | 300.00 | 1500.00 | 5.6 | 0.08 | -14.40 | 2.16 | 125.20 | 20.28 | Clearish | Na | |
| 11:15 | 5.71 | 275.00 | 1375.00 | 5.61 | 0.13 | -13.30 | 3.97 | 124.96 | 20.55 | Clearish | Na | |
| 11:20 | 5.65 | 275.00 | 1375.00 | 5.62 | 0.10 | -10.70 | 1.52 | 124.40 | 20.71 | Clearish | Na | |
| 11:25 | 5.65 | 275.00 | 1375.00 | 5.64 | 0.06 | -9.60 | 1.88 | 125.38 | 20.61 | Clearish | Na | |
| 11:30 | 5.65 | 275.00 | 1375.00 | 5.64 | 0.06 | -8.20 | 1.77 | 124.72 | 20.94 | Clearish | Na | |
| 11:35 | 5.65 | 275.00 | 1375.00 | 5.64 | 0.06 | -8.60 | 1.89 | 124.65 | 21.00 | Clearish | Na | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --

Method: Low Flow | Date: 08-30-2021 | Time: 11:40

Field Filtered: No

Purge Start Time: 10:50

Total Volume Purged (mL): 12875

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 5.64 |
| Spec. Cond.(µS/cm) | 124.65 |
| Turbidity (NTU) | 1.89 |
| Temp.(°C) | 21.00 |
| DO (mg/L) | 0.06 |
| ORP (mV) | |

Screen Interval: 7 - 17

| 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: CAP0821-PIW-7S-083021

DuplicateID:

QA/QC:

| ALL PARAMETERS ANALYZED |
|---|
| **537 MOD (13 PFCAs)\|Table 3+ (21)(HL) Including HFPO-DA and PFHpA** |

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 92.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 0 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PW-04 | Well Diameter: | 2 Inches |
| Samplers: | CHARLES PACE\|TYLER PORRITT | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 30
Pump Loc: bottom of well
Method: Peristaltic Pump Date: 08-25-2021 Time: 13:50

*WATER VOLUME CALCULATION*

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

Water Volume = 0.83

Initial Depth to Water (ft.): 25.61 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 | 26.62 | 100.00 | 800.00 | 3.81 | 0.31 | 301.40 | 31.00 | 118.70 | 32.20 | Cloudy | No | |
| 14:10 | 26.89 | 100.00 | 500.00 | 3.8 | 0.29 | 308.70 | 11.50 | 105.86 | 31.08 | Clear | No | |
| 14:15 | 27.12 | 100.00 | 500.00 | 3.79 | 0.30 | 313.50 | 5.39 | 103.83 | 30.25 | Clear | No | |
| 14:20 | 27.36 | 100.00 | 500.00 | 3.77 | 0.29 | 322.90 | 3.09 | 109.57 | 30.45 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 08-25-2021 Time: 14:20
Field Filtered: No

Purge Start Time: 13:57
Total Volume Purged (mL): 2300

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 3.77 |
| Spec. Cond.(µS/cm) | 109.57 |
| Turbidity (NTU) | 3.09 |
| Temp.(°C) | 30.45 |
| DO (mg/L) | 0.29 |
| ORP (mV) | 322.90 |

Screen Interval: 17 - 27

| 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: CAP0821-PW-04-082521
DuplicateID:
QA/QC:

| ALL PARAMETERS ANALYZED |
|---|
| **537 MOD (13 PFCAs)\|Table 3+ (21)(HL) Including HFPO-DA and PFHpA** |

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 90.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 3 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PW-06 | Well Diameter: | 2 Inches |
| Samplers: | BRANDON WEIDNER\|JELANI GILL | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 30
Pump Loc: within screen
Method: Peristaltic Pump Date: 08-13-2021 Time: 10:35

*WATER VOLUME CALCULATION*

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

Water Volume = 2.229

Initial Depth to Water (ft.): 18.91 Depth to Well Bottom (ft.): 32.84

| 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 | | | |
| 10:50 | 20.05 | 220.00 | 0.00 | 4.27 | 6.54 | 163.10 | 2.26 | 56.02 | 22.84 | Clear | None | |
| 10:55 | 20.08 | 220.00 | 1100.00 | 4.05 | 5.26 | 167.80 | 2.81 | 63.31 | 22.24 | Clear | None | |
| 11:00 | 20.12 | 220.00 | 1100.00 | 3.92 | 4.09 | 179.90 | 2.34 | 63.94 | 22.33 | Clear | None | |
| 11:10 | 20.16 | 220.00 | 2200.00 | 3.85 | 3.25 | 196.70 | 1.67 | 62.24 | 22.42 | Clear | None | |
| 11:15 | 20.17 | 220.00 | 1100.00 | 3.84 | 3.23 | 200.00 | 1.26 | 62.03 | 22.31 | Clear | None | |
| 11:20 | 20.16 | 220.00 | 1100.00 | 3.84 | 3.15 | 204.70 | 1.80 | 61.61 | 22.29 | Clear | None | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 08-13-2021 Time: 11:20
Field Filtered: No

Purge Start Time: 10:50
Total Volume Purged (mL): 6600

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 3.84 |
| Spec. Cond.(µS/cm) | 61.61 |
| Turbidity (NTU) | 1.80 |
| Temp.(°C) | 22.29 |
| DO (mg/L) | 3.15 |
| ORP (mV) | 204.70 |

Screen Interval: 19 - 29

**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: CAP0821-PW-06-081321
DuplicateID:
QA/QC:

**ALL PARAMETERS ANALYZED**

537 MOD (13 PFCAs)|Table 3+ (21)(HL) Including HFPO-DA and PFHpA

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 84.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 9 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

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# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PW-07 | Well Diameter: | 2 Inches |
| Samplers: | CHARLES PACE\|TYLER PORRITT | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: --
Pump Loc: --
Method: Bailer Date: 08-25-2021 Time: 15:00

*WATER VOLUME CALCULATION*

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

Water Volume = 0.685

Initial Depth to Water (ft.): 37.43 Depth to Well Bottom (ft.): 41.71

| Time | DTW | Pump Rate | Vol. | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 hr | ft | mL/min | mL | pH units | mg/L | mV | NTU | µS/cm | °C | | | |
| 15:10 | 37.43 | -- | 0.00 | 5.03 | 7.13 | 271.30 | 1000.00 | 50.19 | 26.63 | Brown | No | NTU greater than 1000, first visit need to purge 3.425 to sample. Purged 1.5 gal, approximately two well volumes. |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: -- Date: -- Time: --
Field Filtered: --

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

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 5.03 |
| Spec. Cond.(µS/cm) | 50.19 |
| Turbidity (NTU) | 1000.00 |
| Temp.(°C) | 26.63 |
| DO (mg/L) | 7.13 |
| ORP (mV) | 271.30 |

Screen Interval: 28 - 38

| 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 |
|---|
| -- |

Sample ID: --
DuplicateID: --
QA/QC: --

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 92.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 3 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

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# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PW-07 | Well Diameter: | 2 Inches |
| Samplers: | TAYLOR CRITTENDEN\|TYLER PORRITT | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: --
Pump Loc: within screen
Method: Bailer Date: 08-27-2021 Time: 13:37

*WATER VOLUME CALCULATION*

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

Water Volume = -6.069

Initial Depth to Water (ft.): 37.93 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 | | | |
| 13:41 | 37.93 | -- | 0.00 | 5.08 | 8.15 | 265.20 | 76.31 | 76.10 | 27.12 | Light brown | No | Purged 3.5 gallons of water since 8/25 equal to 5 well volumes. Filled 4 bottles unfiltered and 4 bottles filtered |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Five Well Volume Date: 8/27/2021 12:50 Time: 12:50
Field Filtered: Yes
Purge Start Time: --
Total Volume Purged (mL): --

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 5.08 |
| Spec. Cond.(µS/cm) | 76.10 |
| Turbidity (NTU) | 76.31 |
| Temp.(°C) | 27.12 |
| DO (mg/L) | 8.15 |
| ORP (mV) | 265.20 |

Screen Interval: 28 - 38

| 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: CAP0821-PW-07-082721
DuplicateID: CAP0821-PW-07-082721-Z
QA/QC:

| ALL PARAMETERS ANALYZED |
|---|
| **537 MOD (13 PFCAs)\|Table 3+ (21)(HL) Including HFPO-DA and PFHpA** |

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 87 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PW-09 | Well Diameter: 2 Inches

Samplers: BRANDON WEIDNER|LUKE TART | Event: Monthly CAP | Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 52

Pump Loc: within screen

Method: Double valve pump | Date: 08-12-2021 | Time: 11:51

*WATER VOLUME CALCULATION*

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

Water Volume = 5.253

Initial Depth to Water (ft.): 24.87 | Depth to Well Bottom (ft.): 57.7

| 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 | 26.91 | 210.00 | 1050.00 | 10.3 | 4.13 | 61.85 | 32.00 | 200.43 | 21.12 | Cloudy | None | |
| 13:15 | 26.80 | 210.00 | 1050.00 | 10.78 | 2.95 | 66.30 | 23.80 | 445.00 | 20.71 | Clear | None | |
| 13:20 | 27.33 | 210.00 | 1050.00 | 10.8 | 1.99 | 50.60 | 19.30 | 581.35 | 20.94 | Clear | None | |
| 13:25 | 27.56 | 210.00 | 1050.00 | 10.81 | 1.33 | 24.10 | 19.74 | 664.93 | 20.57 | Clear | None | |
| 13:30 | 27.95 | 210.00 | 1050.00 | 10.83 | 1.09 | 14.80 | 18.30 | 694.94 | 20.74 | Clear | None | |
| 13:35 | 28.05 | 210.00 | 1050.00 | 9.45 | 0.64 | 10.90 | 99.50 | 173.50 | 21.38 | Cloudy | None | |
| 13:40 | 28.37 | 375.00 | 1875.00 | 9.34 | 1.11 | -4.90 | 79.60 | 158.88 | 19.66 | Cloudy | None | |
| 13:45 | 29.02 | 375.00 | 1875.00 | 9.19 | 1.50 | -1.00 | 68.90 | 146.26 | 19.42 | Cloudy | None | |
| 13:50 | 29.65 | 375.00 | 1875.00 | 8.82 | 1.08 | 8.70 | 78.60 | 133.46 | 19.67 | Cloudy | None | |
| 13:55 | 29.82 | 375.00 | 1875.00 | 8.57 | 0.77 | 3.50 | 76.60 | 124.89 | 19.77 | Cloudy | None | |
| 14:00 | 30.06 | 375.00 | 1875.00 | 8.23 | 0.62 | -72.80 | 89.60 | 118.40 | 19.63 | Cloudy | None | |
| 14:05 | 30.11 | 375.00 | 1875.00 | 7.88 | 0.54 | -123.60 | 66.20 | 113.26 | 19.36 | Cloudy | None | |
| 14:10 | 30.21 | 375.00 | 1875.00 | 7.74 | 0.46 | -139.60 | 69.50 | 111.62 | 19.69 | Cloudy | None | |
| 14:15 | 30.15 | 375.00 | 1875.00 | 7.73 | 0.47 | -142.60 | 70.30 | 108.40 | 19.61 | Cloudy | None | |
| 14:20 | 30.15 | 375.00 | 1875.00 | 7.28 | 0.40 | -117.30 | 72.40 | 106.13 | 19.77 | Cloudy | None | |
| 14:25 | 30.15 | 375.00 | 1875.00 | 7.13 | 0.39 | -103.10 | 71.36 | 103.75 | 19.63 | Cloudy | None | |
| 14:30 | 30.15 | 375.00 | 1875.00 | 7.06 | 0.39 | -90.70 | 55.60 | 100.45 | 19.33 | Cloudy | None | |
| 14:35 | 30.15 | 375.00 | 1875.00 | 6.95 | 0.40 | -85.70 | 61.20 | 99.07 | 19.30 | Cloudy | None | |
| 14:40 | 30.15 | 375.00 | 1875.00 | 6.9 | 0.40 | -80.90 | 61.95 | 97.97 | 19.47 | Cloudy | None | |
| 14:45 | 30.48 | 450.00 | 2250.00 | 6.88 | 0.42 | -78.40 | 49.21 | 97.88 | 19.22 | Cloudy | None | |
| 14:50 | 30.45 | 450.00 | 2250.00 | 7.17 | 2.08 | -78.20 | 49.50 | 101.36 | 18.97 | Cloudy | None | |
| 14:55 | 30.51 | 450.00 | 2250.00 | 7.02 | 1.89 | -64.90 | 49.50 | 98.88 | 19.25 | Cloudy | None | |
| 15:00 | 31.05 | 450.00 | 2250.00 | 6.87 | 1.54 | -57.80 | 44.00 | 96.57 | 19.40 | Cloudy | None | |
| 15:05 | 31.05 | 450.00 | 2250.00 | 6.8 | 1.29 | -54.50 | 39.50 | 95.51 | 19.03 | Cloudy | None | |
| 15:10 | 31.40 | 450.00 | 2250.00 | 6.78 | 1.10 | -53.10 | 41.90 | 93.29 | 19.35 | Cloudy | None | |
| 15:15 | 31.40 | 450.00 | 2250.00 | 6.68 | 0.99 | -52.10 | 49.50 | 92.46 | 19.29 | Cloudy | None | |
| 15:20 | 32.81 | 450.00 | 2250.00 | 8 | 6.82 | -116.90 | 44.60 | 107.79 | 18.37 | Cloudy | None | |
| 15:25 | 32.85 | 1000.00 | 5000.00 | 7.8 | 3.98 | -102.10 | 62.35 | 101.11 | 18.36 | Cloudy | None | |
| 15:30 | 35.01 | 1000.00 | 5000.00 | 6.95 | 0.30 | -58.50 | 70.96 | 95.36 | 18.95 | Cloudy | None | |
| 15:35 | 35.01 | 600.00 | 3000.00 | 6.74 | 0.15 | -47.30 | 70.60 | 89.33 | 18.64 | Cloudy | None | |
| 15:40 | 35.01 | 600.00 | 3000.00 | 6.63 | 0.17 | -44.30 | 75.60 | 87.24 | 19.88 | Cloudy | None | |
| 15:45 | 35.01 | 600.00 | 3000.00 | 6.56 | 0.25 | -41.20 | 65.30 | 86.09 | 18.79 | Cloudy | None | |
| 15:50 | 35.01 | 600.00 | 3000.00 | 6.55 | 0.26 | -41.90 | 70.60 | 85.33 | 19.93 | Cloudy | None | |
| 15:55 | 35.01 | 600.00 | 3000.00 | 6.56 | 0.26 | -41.50 | 65.30 | 85.24 | 18.74 | Cloudy | None | |
| 16:00 | 35.01 | 600.00 | 3000.00 | 6.55 | 0.29 | -45.90 | 56.30 | 84.68 | 18.83 | Cloudy | None | |
| 16:05 | 35.01 | 600.00 | 3000.00 | 6.55 | 0.30 | -45.50 | 65.30 | 84.60 | 18.98 | Cloudy | None | |
| 16:10 | 35.01 | 600.00 | 3000.00 | 6.56 | 0.30 | -46.50 | 61.30 | 83.85 | 18.73 | Cloudy | None | |
| 16:15 | 35.01 | 600.00 | 3000.00 | 6.54 | 0.26 | -47.50 | 50.00 | 83.48 | 18.84 | Cloudy | None | |
| 16:20 | 35.01 | 600.00 | 3000.00 | 6.56 | 0.33 | -47.60 | 45.30 | 83.28 | 18.61 | Cloudy | None | |
| 16:25 | 35.01 | 600.00 | 3000.00 | 6.54 | 0.30 | -48.00 | 56.30 | 82.96 | 18.72 | Cloudy | None | |
| 16:30 | 35.01 | 600.00 | 3000.00 | 6.54 | 0.28 | -50.40 | 49.55 | 82.68 | 18.72 | Cloudy | None | |
| 16:35 | 35.01 | 600.00 | 3000.00 | 6.56 | 0.28 | -49.30 | 49.30 | 82.71 | 18.73 | Cloudy | None | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --

Method: Five Well Volume | Date: 08-12-2021 | Time: 16:35

Field Filtered: Yes

Purge Start Time: 13:05

Total Volume Purged (mL): 97675

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**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 6.56 |
| Spec. Cond.(µS/cm) | 82.71 |
| Turbidity (NTU) | 49.30 |
| Temp.(°C) | 18.73 |
| DO (mg/L) | 0.28 |
| ORP (mV) | -49.30 |

Screen Interval:

| 44 - 54 |
|---|

| 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+ (21)(HL) Including HFPO-DA and PFHpA** |

| | |
|---|---|
| Sample ID: | CAP0821-PW-09-081221 |
| DuplicateID: | CAP0821-PW-09-081221-Z |
| QA/QC: | |

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 87.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 3 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PZ-22 | Well Diameter: .75 Inches

Samplers: MATT SCHEUER|TAYLOR CRITTENDEN | Event: Monthly CAP | Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 45

Pump Loc: within screen

Method: Peristaltic Pump | Date: 08-30-2021 | Time: 13:19

*WATER VOLUME CALCULATION*

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

Water Volume = 0.365

Initial Depth to Water (ft.): 6.96 | Depth to Well Bottom (ft.): 47.5

| 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 | | | |
| 13:30 | -- | 250.00 | 1250.00 | 4.58 | 0.23 | 132.20 | 35.35 | 69.17 | 23.26 | Clear | No | No DTW due to small well. |
| 13:35 | -- | 250.00 | 1250.00 | 4.49 | 0.13 | 126.30 | 11.20 | 69.60 | 22.56 | Clear | No | |
| 13:40 | -- | 250.00 | 1250.00 | 4.53 | 0.10 | 114.90 | 5.14 | 69.09 | 22.51 | Clear | No | |
| 13:45 | -- | 250.00 | 1250.00 | 4.51 | 0.08 | 111.80 | 7.93 | 69.17 | 22.10 | Clear | No | |
| 13:50 | -- | 250.00 | 1250.00 | 4.51 | 0.07 | 108.70 | 4.90 | 69.11 | 22.01 | Clear | No | |
| 13:55 | -- | 250.00 | 1250.00 | 4.49 | 0.07 | 105.10 | 8.05 | 69.14 | 22.35 | Clear | No | |
| 14:00 | -- | 250.00 | 1250.00 | 4.49 | 0.06 | 102.50 | 4.76 | 69.24 | 22.22 | Clear | No | |
| 14:05 | -- | 250.00 | 1250.00 | 4.47 | 0.06 | 102.90 | 3.55 | 69.02 | 22.19 | Clear | No | |
| 14:10 | -- | 250.00 | 1250.00 | 4.5 | 0.06 | 99.70 | 3.41 | 69.15 | 22.17 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --

Method: Low Flow | Date: 08-30-2021 | Time: 14:10

Field Filtered: No

Purge Start Time: 13:25

Total Volume Purged (mL): 11250

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.50 |
| Spec. Cond.(µS/cm) | 69.15 |
| Turbidity (NTU) | 3.41 |
| Temp.(°C) | 22.17 |
| DO (mg/L) | 0.06 |
| ORP (mV) | 99.70 |

Screen Interval: 36.0-46.0

| 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: CAP0821-PZ-22-083021

DuplicateID:

QA/QC:

| ALL PARAMETERS ANALYZED |
|---|
| **537 MOD (13 PFCAs)\|Table 3+ (21)(HL) Including HFPO-DA and PFHpA** |

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 93.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 6 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

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# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | RIVER WATER INTAKE2 | Project Manager: | Tracy Ovbey |
| Samplers: | BRANDON WEIDNER\|CHARLES PACE\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 08-18-2021 | Time: | 08:15 | 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 | | | | |
| RIVER-WATER-INTAKE2-24-081921 | 08-19-2021 08:06 | | 6.49 | 7.53 | 113.30 | 14.10 | 506.06 | 23.62 | Clear | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 08-18-2021 09:06 | Multi Meter ID: | 706751 |
| ISCO End Date and Time: | 08-19-2021 08:06 | Old Outfall Bypass(Yes/No): | -- |

**SAMPLE SET**

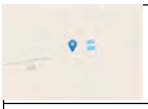
| Parameter | Bottle | Pres. | Method |
|---|---|---|---|
| PFAS | 2-250 mL poly | NP | 537 Mod Including HFPO-DA |
| PFAS | 250 mL poly | NP | Table 3+ (19)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (20)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (19)(HL) |
| PFAS | 250 mL poly | NP | Table 3+ (21)(LL)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

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 88.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| Latitude: | 34.8433168419031 |
| Longitude: | -78.835643017738 |



GPS Location (if collected)

PARSONS

# FLOW-THROUGH CELL OPERATION, MAINTENANCE, AND MONITORING FORM

Site Name: Chemours Fayetteville
Location ID: Seep A
Project Manager: Michael Robinson
Field Personnel: LUKE TART|SHARON MORAN|
Program Name: Interim Seep Remediation
Date: 08-23-2021

Weather:
Precipitation: None

Tasks Completed and General Comments: Weekly Inspection|PM Sampling|Water Level Measurements|Dataloggers Brerakthrough samples. Last recorded rain was 8/20/21 : 7/8 inches.

## INSPECTION/MAINTENANCE

On Arrival: What is the Operational Mode? FB1 Lag/FB2 Lead
Time: 16:19
On Departure: What is the Operational Mode? Parallel
Departure Time: 17:15

Flow Through the Spillway Upon Arrival? No

ISCO Programs Changed? No
If Yes, What Changes were Made? Preformance 24 hour sample stopped.

## OPERATION/MONITORING

**Collected Before Filter Bed Maintenance?** **Yes**

**Flow Through Cell Depths to Water On Arrival (ft below top of grating)**

Inlet Basin (ft): 0.98
Time Recorded: 16:30
FB-1 (ft): 4.03
FB-2 (ft): 1.11
Transfer Basin (ft): 2.86
Effluent Stilling Basin (ft): 4.31
Outlet (ft): 6.79

**Calculated Values Based on Flow Through Cell Depths to Water On Arrival**

Height of Water in ESB (ft): 3.27
Height of Water over Weir in ESB (ft): 0.15
Depth Below Spillway (inches) -1.56
Estimated System Flow Rate (gpm) 123

**Weir and Valve Status**

Downward Opening Weir (W3) - Height from the Top of Weir Gate to the Top of the Grating: 52.5 Inches

Valves Adjusted during the O&M? Yes
If Yes, Description of Which Valve(s) and Adjustments Made: Turned the system to run both FB' s in parallel. This was done to prevent bypass.

**Data Logger Information**

Datalogger Action Performed: Download
All Three Dataloggers Downloaded? yes

Dataloggers - Comments: Baro logger is located at Seep C

***Inlet Chamber***

Measurement Time - Before Removal: 16:30
Measurement Time - After Redeployment: 16:35
Depth to Water - Before Removal (ft): 0.98
Deoth to Water - After Redeployment (ft): 0.98

***Effluent Stilling Basin***

Measurement Time - Before Removal: 16:24
Measurement Time - After Redeployment: 16:30
Depth to Water - Before Removal (ft): 4.31
Deoth to Water - After Redeployment (ft): 4.31

***If Replaced: New Information for Dataloggers***

New Datalogger: Make, Model, Serial Number, Program:

## SAMPLING INFORMATION

Will a Sample be Collected? Yes

Was the Water Quality Meter Calibrated? Yes

Water Quality Meter Type: Insitu Aqua Troll

Water Quality Meter S/N: 706720

| Sampling Event | Sampling Location | Sample ID | Sample Date | Sample Time | ISCO Start Date and Time | ISCO End Date and Time | QA/QC | Parameters Analyzed | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| Performance Monitoring | Effluent Stilling Basin | Seep A-Effluent-24-082021 | 08-20-2021 | 19:00 | 08-19-2021 20:00 | 08-20-2021 19:00 | | | |
| Performance Monitoring | Inlet Chamber | Seep A-Influent-24-082021 | 08-20-2021 | 19:00 | 08-19-2021 20:00 | 08-20-2021 19:00 | | | |
| | | | | | | | | | |

| Sampling Event | Sampling Location | pH | Dissolved Oxygen (DO) | Turbidity | Specific Conductance | Temperature | Total Suspended Solids (TSS) |
|---|---|---|---|---|---|---|---|
| | | | mg/L | NTU | µS/cm | °C | mg/L |
| Performance Monitoring | Effluent Stilling Basin | 4.64 | 6.95 | 0.35 | 122.63 | 31.72 | 0 |
| Performance Monitoring | Inlet Chamber | 4.18 | 6.56 | 71.17 | 141.86 | 29.37 | 0 |
| | | | | | | | |

## PHOTOS

Photo Location ID: Spillway Oulet

Caption: Not bypassing

Photo Location ID: Spillway Inlet

Caption:no freeboard

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | SEEP-B-EFF | Project Manager: | Tracy Ovbey |
| Samplers: | BRANDON WEIDNER\|CHARLES PACE\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 08-18-2021 | Time: | 10:21 | General Comments: | Sample restarted on 8/19, due to ISCO failure. |

| Spl ID | Spl Date | Time | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | QA/QC | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | mg/L | mV | NTU | µS/cm | °C | | | | |
| CAP0821-SEEP-B-EFF-24-082021 | 8/20/2021 13:26 | | 5.37 | 6.22 | 157.70 | 2.46 | 98.01 | 24.73 | Clear | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 8/19/2021 14:26 | Multi Meter ID: | 706751 |
| ISCO End Date and Time: | 8/20/2021 13:26 | Old Outfall Bypass(Yes/No): | -- |

**SAMPLE SET**

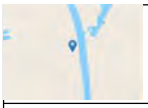
| Parameter | Bottle | Pres. | Method |
|---|---|---|---|
| PFAS | 2-250 mL poly | NP | 537 Mod Including HFPO-DA |
| PFAS | 250 mL poly | NP | Table 3+ (19)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (20)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (19)(HL) |
| PFAS | 250 mL poly | NP | Table 3+ (21)(LL)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

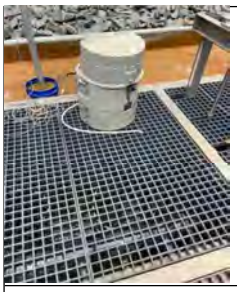
**Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 85.00 |
| Sky: | Cloudy |
| Precipitation: | Rain |
| Wind (mph) | 5 |

| | |
|---|---|
| Latitude: | 34.842209592494 |
| Longitude: | -78.8250518963475 |



GPS Location (if collected)



ISCO at effluent chamber

# FLOW-THROUGH CELL OPERATION, MAINTENANCE, AND MONITORING FORM

Site Name: Chemours Fayetteville
Location ID: Seep C
Project Manager: Michael Robinson
Field Personnel: LUKE TART|SHARON MORAN|
Program Name: Interim Seep Remediation
Date: 08-23-2021

Weather:
Precipitation: None

Tasks Completed and General Comments: Weekly Inspection|PM Sampling|Water Level Measurements, dataloggers, breakthrough samples

## INSPECTION/MAINTENANCE

On Arrival: What is the Operational Mode? FB1 Lead/FB2 Lag
Time: 13:40
On Departure: What is the Operational Mode? FB1 Lead/FB2 Lag
Departure Time: 14:30

Flow Through the Spillway Upon Arrival? No

ISCO Programs Changed? Yes
If Yes, What Changes were Made? Preformance sample ended.

## OPERATION/MONITORING

**Collected Before Filter Bed Maintenance? Yes**

**Flow Through Cell Depths to Water On Arrival (ft below top of grating)**

Inlet Basin (ft): 1.53
Time Recorded: 13:50
FB-1 (ft): 1.58
FB-2 (ft): 3.96

Transfer Basin (ft): 3.13
Effluent Stilling Basin (ft): 4.29
Outlet (ft): 7.12

**Calculated Values Based on Flow Through Cell Depths to Water On Arrival**

Height of Water in ESB (ft): 3.29
Height of Water over Weir in ESB (ft): 0.06
Depth Below Spillway (inches) 5.04

Estimated System Flow Rate (gpm) 35

**Weir and Valve Status**

Downward Opening Weir (W3) - Height from the Top of Weir Gate to the Top of the Grating: 51.25 Inches

Valves Adjusted during the O&M? No
If Yes, Description of Which Valve(s) and Adjustments Made: Valves we adjusted on 8/20/21 to run in parallel, then set back to FB-1 lead FB-2 lag on 8/21/21. System ran in parrallel for 24 hours to prevent bypass.

**Data Logger Information**

Datalogger Action Performed: Download
All Three Dataloggers Downloaded? Yes

Dataloggers - Comments:

***Inlet Chamber***

Measurement Time - Before Removal: 14:26
Measurement Time - After Redeployment: 14:32
Depth to Water - Before Removal (ft): 1.53
Depth to Water - After Redeployment (ft): 1.53

***Effluent Stilling Basin***

Measurement Time - Before Removal: 14:22
Measurement Time - After Redeployment: 14:26
Depth to Water - Before Removal (ft): 4.29
Depth to Water - After Redeployment (ft): 4.29

***If Replaced: New Information for Dataloggers***

New Datalogger: Make, Model, Serial Number, Program:

## SAMPLING INFORMATION

Will a Sample be Collected? Yes

Was the Water Quality Meter Calibrated? Yes

Water Quality Meter Type: Insitu Aqua Troll

Water Quality Meter S/N: 706720

| Sampling Event | Sampling Location | Sample ID | Sample Date | Sample Time | ISCO Start Date and Time | ISCO End Date and Time | QA/QC | Parameters Analyzed | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| Performance Monitoring | Effluent Stilling Basin | Seep C-Effluent-24-082021 | 08-20-2021 | 19:00 | 08-19-2021 20:00 | 08-20-2021 19:00 | | | |
| Performance Monitoring | Inlet Chamber | Seep C-Influent-24-082021 | 08-20-2021 | 19:00 | 08-19-2021 20:00 | 08-20-2021 19:00 | | | |
| | | | | | | | | | |

| Sampling Event | Sampling Location | pH | Dissolved Oxygen (DO) | Turbidity | Specific Conductance | Temperature | Total Suspended Solids (TSS) |
|---|---|---|---|---|---|---|---|
| | | | mg/L | NTU | µS/cm | °C | mg/L |
| Performance Monitoring | Effluent Stilling Basin | 5.71 | 6.66 | 4.06 | 92.81 | 32.7 | 0 |
| Performance Monitoring | Inlet Chamber | 5.95 | 6.13 | 1.13 | 86.6 | 32.94 | 0 |
| | | | | | | | |

## PHOTOS

Photo Location ID: Spillway inlet

Caption: 3.5 inch freeboard

Photo Location ID: Spillway outlet

Caption: spillway dry

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | SEEP-D-EFF | Project Manager: | Tracy Ovbey |
| Samplers: | BRANDON WEIDNER\|CHARLES PACE\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 08-18-2021 | Time: | 11:41 | 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 | | | | |
| CAP0821-SEEP-D-EFF-24-081921 | 8/19/2021 10:32 | | 4.90 | 3.46 | 246.20 | 2.20 | 103.99 | 24.27 | Clear | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 08-18-2021 11:38 | Multi Meter ID: | 706751 |
| ISCO End Date and Time: | 08-19-2021 10:38 | Old Outfall Bypass(Yes/No): | -- |

**SAMPLE SET**

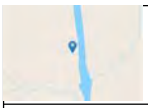
| Parameter | Bottle | Pres. | Method |
|---|---|---|---|
| PFAS | 2-250 mL poly | NP | 537 Mod Including HFPO-DA |
| PFAS | 250 mL poly | NP | Table 3+ (19)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (20)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (19)(HL) |
| PFAS | 250 mL poly | NP | Table 3+ (21)(LL)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

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 87.00 |
| Sky: | Partly Cloudy |
| Precipitation: | None |
| Wind (mph) | 4 |

| | |
|---|---|
| Latitude: | 34.8372464580786 |
| Longitude: | -78.8243786618848 |



GPS Location (if collected)

ISCO at effluent basin

PARSONS

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | SMW-10 | Well Diameter: | 2 Inches |
| Samplers: | BRANDON WEIDNER\|TAYLOR CRITTENDEN | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 47
Pump Loc: within screen
Method: Peristaltic Pump Date: 08-25-2021 Time: 12:25

*WATER VOLUME CALCULATION*

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

Water Volume = 3.618

Initial Depth to Water (ft.): 29.43 Depth to Well Bottom (ft.): 52.04

| Time | DTW | Pump Rate | Vol. | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 hr | ft | mL/min | mL | pH units | mg/L | mV | NTU | µS/cm | °C | | | |
| 13:00 | -- | 180.00 | 1800.00 | 4.93 | 0.17 | 119.90 | 82.16 | 88.15 | 23.21 | Cloudy | None | |
| 13:05 | 29.45 | 180.00 | 900.00 | 4.67 | 0.15 | 128.30 | 63.34 | 87.54 | 23.20 | Cloudy | No | |
| 13:10 | 29.45 | 180.00 | 900.00 | 4.7 | 0.15 | 124.90 | 43.89 | 87.60 | 23.02 | Cloudy | No | |
| 13:15 | 29.35 | 180.00 | 900.00 | 4.71 | 0.15 | 119.40 | 40.84 | 87.52 | 22.99 | Cloudy | None | |
| 13:20 | 29.45 | 180.00 | 900.00 | 4.77 | 0.14 | 113.00 | 33.21 | 87.69 | 22.67 | Cloudy | None | |
| 13:25 | 29.45 | 180.00 | 900.00 | 4.76 | 0.12 | 107.00 | 24.59 | 87.76 | 22.83 | Clear | None | |
| 13:30 | 29.45 | 180.00 | 900.00 | 4.79 | 0.12 | 104.70 | 19.81 | 87.39 | 22.54 | Clear | No | |
| 13:35 | 29.45 | 180.00 | 900.00 | 4.78 | 0.12 | 104.20 | 18.95 | 87.56 | 22.84 | Clear | None | |
| 13:40 | 29.45 | 180.00 | 900.00 | 4.74 | 0.12 | 104.90 | 16.58 | 87.38 | 22.36 | Clear | None | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 08-25-2021 Time: 13:40
Field Filtered: No

Purge Start Time: 12:50
Total Volume Purged (mL): 9000

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.74 |
| Spec. Cond.(µS/cm) | 87.38 |
| Turbidity (NTU) | 16.58 |
| Temp.(°C) | 22.36 |
| DO (mg/L) | 0.12 |
| ORP (mV) | 104.90 |

Screen Interval: 39 to 49

| 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+ (21)(HL) Including HFPO-DA and PFHpA** |

Sample ID: CAP0821-SMW-10-082521
DuplicateID:
QA/QC:

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 89.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 6 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | SMW-11 | Well Diameter: | 2 Inches |
| Samplers: | BRANDON WEIDNER\|LUKE TART | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 23.5
Pump Loc: within screen
Method: Peristaltic Pump Date: 08-12-2021 Time: 11:10

*WATER VOLUME CALCULATION*

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

Water Volume = 2.136

Initial Depth to Water (ft.): 12.43 Depth to Well Bottom (ft.): 25.78

| 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 | | | |
| 11:20 | 12.55 | 250.00 | 1250.00 | 3.84 | 4.50 | 363.70 | 37.50 | 49.71 | 20.88 | Cloudy | None | |
| 11:25 | 12.55 | 250.00 | 1250.00 | 3.74 | 4.60 | 375.60 | 8.64 | 50.32 | 20.84 | Clear | None | |
| 11:30 | 12.55 | 250.00 | 1250.00 | 3.67 | 4.67 | 379.60 | 1.86 | 50.77 | 20.33 | Clear | None | |
| 11:35 | 12.55 | 250.00 | 1250.00 | 3.69 | 4.56 | 379.70 | 2.57 | 50.01 | 20.70 | Clear | None | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 08-12-2021 Time: 11:35
Field Filtered: No

Purge Start Time: 11:15
Total Volume Purged (mL): 5000

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 3.69 |
| Spec. Cond.(µS/cm) | 50.01 |
| Turbidity (NTU) | 2.57 |
| Temp.(°C) | 20.70 |
| DO (mg/L) | 4.56 |
| ORP (mV) | 379.70 |

Screen Interval: 13 to 23

| 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: CAP0821-SMW-11-081221
DuplicateID:
QA/QC:

| ALL PARAMETERS ANALYZED |
|---|
| **537 MOD (13 PFCAs)\|Table 3+ (21)(HL) Including HFPO-DA and PFHpA** |

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 87.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 3 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: SMW-12 | Well Diameter: 2 Inches

Samplers: BRANDON WEIDNER|TAYLOR CRITTENDEN | Event: Monthly CAP | Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 98

Pump Loc: within screen

Method: Double valve pump | Date: 08-25-2021 | Time: 14:18

*WATER VOLUME CALCULATION*

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

Water Volume = 2.947

Initial Depth to Water (ft.): 83.6 | Depth to Well Bottom (ft.): 102.02

| Time | DTW | Pump Rate | Vol. | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 hr | ft | mL/min | mL | pH units | mg/L | mV | NTU | µS/cm | °C | | | |
| 15:00 | 83.65 | 200.00 | 2000.00 | 3.62 | 0.18 | 156.90 | 7.84 | 238.19 | 20.64 | Clear | No | |
| 15:05 | 83.65 | 200.00 | 1000.00 | 3.34 | 0.13 | 135.60 | 9.07 | 238.71 | 20.21 | Clear | No | |
| 15:10 | 83.65 | 200.00 | 1000.00 | 3.36 | 0.15 | 127.70 | 6.51 | 238.88 | 20.18 | Clear | No | |
| 15:15 | 83.65 | 200.00 | 1000.00 | 3.39 | 0.13 | 121.30 | 4.50 | 238.55 | 20.14 | Clear | No | |
| 15:20 | 83.65 | 200.00 | 1000.00 | 3.46 | 0.12 | 116.10 | 3.08 | 238.55 | 20.06 | Clear | No | |
| 15:25 | 83.65 | 200.00 | 1000.00 | 3.46 | 0.10 | 107.10 | 2.11 | 238.38 | 19.96 | Clear | No | |
| 15:30 | 83.65 | 200.00 | 1000.00 | 3.41 | 0.13 | 107.70 | 1.61 | 238.80 | 20.05 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --

Method: Low Flow | Date: 08-25-2021 | Time: 15:30

Field Filtered: No

Purge Start Time: 14:50

Total Volume Purged (mL): 8000

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 3.41 |
| Spec. Cond.(µS/cm) | 238.80 |
| Turbidity (NTU) | 1.61 |
| Temp.(°C) | 20.05 |
| DO (mg/L) | 0.13 |
| ORP (mV) | 107.70 |

Screen Interval: 88 to 98

| 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: CAP0821-SMW-12-082521

DuplicateID:

QA/QC:

**ALL PARAMETERS ANALYZED**

**537 MOD (13 PFCAs)|Table 3+ (21)(HL) Including HFPO-DA and PFHpA**

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 94.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 4 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | WC-1 | Project Manager: | Tracy Ovbey |
| Samplers: | BRANDON WEIDNER\|CHARLES PACE\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 08-18-2021 | Time: | 08:30 | 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 | | | | |
| CAP0821-WC-1-24-081921 | 08-19-2021 08:00 | | 5.35 | 7.22 | 157.70 | 7.99 | 80.62 | 24.35 | Clear | No | MS/REP | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 08-18-2021 09:00 | Multi Meter ID: | 706751 |
| ISCO End Date and Time: | 08-19-2021 08:00 | Old Outfall Bypass(Yes/No): | -- |

**SAMPLE SET**

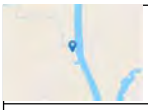
| Parameter | Bottle | Pres. | Method |
|---|---|---|---|
| PFAS | 2-250 mL poly | NP | 537 Mod Including HFPO-DA |
| PFAS | 250 mL poly | NP | Table 3+ (19)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (20)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (19)(HL) |
| PFAS | 250 mL poly | NP | Table 3+ (21)(LL)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

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 80.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 7 |

| | |
|---|---|
| Latitude: | 34.8505609436285 |
| Longitude: | -78.827513661309 |



GPS Location (if collected)

PARSONS

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | CFR-BLADEN | Project Manager: | Tracy Ovbey |
| Samplers: | CHARLES PACE\|MATT SCHEUER\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 09-14-2021 | Time: | 17:25 | 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 | | | | |
| CAP0921-CFR-BLADEN-091421 | 09-14-2021 17:45 | | 6.81 | 7.18 | 101.50 | 8.97 | 106.79 | 26.40 | Cloudy | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | Peri Pump Grab | Tubing Depth (ft): | 7 | Distance to River Right: | 42 |
| Sampling Location: | Thalweg | Multi Meter Used: | Insitu Aqua Troll | Distance to River Left: | 37 |
| Total Depth to Bottom of Channel (ft): | 14 | Multi Meter ID: | 706751 | Distance to River (Right/Left) Units: | m |

**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 |

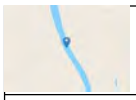
**ALL PARAMETERS ANALYZED**

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA, 537 MOD (HOLD)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 90.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 6 |

| | |
|---|---|
| Latitude: | 34.7722883 |
| Longitude: | -78.7980958 |



GPS Location (if collected)

Sample Location.

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | CFR-KINGS | Project Manager: | Tracy Ovbey |
| Samplers: | MATT SCHEUER\|SHARON MORAN\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 09-21-2021 | Time: | 13:00 | 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 | | | | |
| CAP0921-CFR-KINGS-092121 | 09-21-2021 13:55 | | 6.95 | 6.88 | 107.60 | 4.82 | 200.13 | 25.58 | Cloudy | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | Peri Pump Grab | Tubing Depth (ft): | 12.5 | Distance to River Right: | 57 |
| Sampling Location: | Thalweg | Multi Meter Used: | Insitu Aqua Troll | Distance to River Left: | 53 |
| Total Depth to Bottom of Channel (ft): | 15 | Multi Meter ID: | 766679 | Distance to River (Right/Left) Units: | m |

**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 |

**ALL PARAMETERS ANALYZED**

**537 Mod (HOLD); Table 3+ (21)(LL) Including HFPO-DA and PFHpA**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 77.00 |
| Sky: | Cloudy |
| Precipitation: | Rain |
| Wind (mph) | 5 |

| | |
|---|---|
| Latitude: | 34.4064485 |
| Longitude: | -78.2947107 |

GPS Location (if collected)

Sample Location.

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | CFR-TARHEEL | Project Manager: | Tracy Ovbey |
| Samplers: | MATT SCHEUER\|Luis torres | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 09-15-2021 | Time: | 08:50 | General Comments: | ISCO composite sample also colected. CAP0921-CFR-TARHEEL-24-091521 9/14/21 21:36-9/15/21 20:36. |

| Spl ID | Spl Date | Time | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | QA/QC | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | mg/L | mV | NTU | µS/cm | °C | | | | |
| CAP0921-CFR-TARHEEL-091521 | 09-15-2021 09:00 | | 7.42 | 6.91 | 4.60 | 4.34 | 328.34 | 26.36 | Cloudy | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | Peri Pump Grab | Tubing Depth (ft): | 7 | Distance to River Right: | 16 |
| Sampling Location: | Thalweg | Multi Meter Used: | Insitu Aqua Troll | Distance to River Left: | 53 |
| Total Depth to Bottom of Channel (ft): | 14 | Multi Meter ID: | 766679 | Distance to River (Right/Left) Units: | m |

**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 |

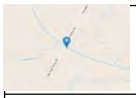
**ALL PARAMETERS ANALYZED**

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA, 537 MOD (HOLD)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 86.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 4 |

| | |
|---|---|
| Latitude: | 34.7443329 |
| Longitude: | -78.7854171 |



GPS Location (if collected)

Sample Location.

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | GBC-1 | Project Manager: | Tracy Ovbey |
| Samplers: | CHARLES PACE\|MATT SCHEUER\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 09-14-2021 | Time: | 16:30 | 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 | | | | |
| CAP0921-GBC-1-091421 | 09-14-2021 | 16:45 | 4.20 | 7.46 | 182.50 | 11.30 | 81.05 | 22.83 | Clear | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | Bottle Grab | Multi Meter Used: | Insitu Aqua Troll | Flow Rate: | -- |
| | | Multi Meter ID: | 706751 | Flow Rate Units: | -- |

**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) |

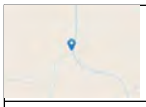
**ALL PARAMETERS ANALYZED**

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 83.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| Latitude: | 34.8149017291468 |
| Longitude: | -78.8212718256552 |



GPS Location (if collected)

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

Sample/flow taken here.

Where stream meets River.

PARSONS

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | LOCK-DAM-NORTH | Project Manager: | Tracy Ovbey |
| Samplers: | CHARLES PACE\|MATT SCHEUER\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 09-14-2021 | Time: | 15:20 | General Comments: | Flow measured using sample bottle and timer. 3 readings taken, all three measured 300 ml in 10 secs with 70% capture rate. |

| Spl ID | Spl Date | Time | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | QA/QC | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | mg/L | mV | NTU | µS/cm | °C | | | | |
| CAP0921-LOCK-DAM-NORTH-091421 | 09-14-2021 | 15:25 | 6.81 | 6.54 | 120.90 | 14.60 | 166.75 | 30.11 | Cloudy | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | Bottle Grab | Multi Meter Used: | Insitu Aqua Troll | Flow Rate: | 1.8 |
| | | Multi Meter ID: | 706751 | Flow Rate Units: | L/min |

**SAMPLE SET**

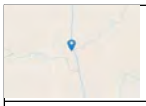
| Parameter | Bottle | Pres. | Method |
|---|---|---|---|
| PFAS | 2-250 mL poly | NP | 537 Mod Including HFPO-DA |
| PFAS | 250 mL poly | NP | Table 3+ (19)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (20)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (19)(HL) |
| PFAS | 250 mL poly | NP | Table 3+ (21)(LL)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

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 89.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| Latitude: | 34.8337735841375 |
| Longitude: | -78.8233894296725 |



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

Where seep enters River

PARSONS

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | LOCK-DAM-SEEP | Project Manager: | Tracy Ovbey |
| Samplers: | CHARLES PACE\|MATT SCHEUER\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 09-14-2021 | Time: | 15:00 | General Comments: | Flow taken by bucket held under stream. Captured 90% of flow. Took three measurements, all came out to be 6 liters filled in 10 seconds. |

| Spl ID | Spl Date | Time | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | QA/QC | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | mg/L | mV | NTU | µS/cm | °C | | | | |
| CAP0921-LOCK-DAM-SEEP-091421 | 09-14-2021 | 15:05 | 6.38 | 6.52 | 100.80 | 33.10 | 96.16 | 27.61 | Cloudy | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | Bottle Grab | Multi Meter Used: | Insitu Aqua Troll | Flow Rate: | 36 |
| | | Multi Meter ID: | 706751 | Flow Rate Units: | L/min |

**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+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 87.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 4 |

| | |
|---|---|
| Latitude: | 34.8338321736407 |
| Longitude: | -78.8236064371456 |

GPS Location (if collected)

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

Flow and sample location.

Where seep meets River.

PARSONS

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | LTW-01 | Well Diameter: | 2 Inches |
| Samplers: | JENNESSA PETERSON\|LUKE TART | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 24
Pump Loc: within screen
Method: Peristaltic Pump Date: 09-28-2021 Time: 15:43

*WATER VOLUME CALCULATION*

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

Water Volume = 2.014

Initial Depth to Water (ft.): 16.31 Depth to Well Bottom (ft.): 28.9

| 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 | | | |
| 16:30 | -- | 200.00 | 6000.00 | 3.55 | 0.30 | 264.60 | 3.99 | 121.45 | 20.13 | Clear | No | Parameters stabilized. Original format lost, final stabilized parameters reported. |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 09-28-2021 Time: 16:30
Field Filtered: No

Purge Start Time: 16:00
Total Volume Purged (mL): 6000

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 3.55 |
| Spec. Cond.(µS/cm) | 121.45 |
| Turbidity (NTU) | 3.99 |
| Temp.(°C) | 20.13 |
| DO (mg/L) | 0.30 |
| ORP (mV) | 264.60 |

Screen Interval: 11.0-26.0

| 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) Including HFPO-DA** |

Sample ID: CAP0921-LTW-01-092821
DuplicateID:
QA/QC:

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 77.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | LTW-02 | Well Diameter: | 2 Inches |
| Samplers: | MATT SCHEUER Luis torres | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 30
Pump Loc: within screen
Method: Peristaltic Pump Date: 09-30-2021 Time: 09:46

*WATER VOLUME CALCULATION*

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

Water Volume = 5.078

Initial Depth to Water (ft.): 9.26 Depth to Well Bottom (ft.): 41

| Time | DTW | Pump Rate | Vol. | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 hr | ft | mL/min | mL | pH units | mg/L | mV | NTU | µS/cm | °C | | | |
| 09:54 | 9.35 | 200.00 | 0.00 | 5.06 | 0.22 | 76.90 | 1.76 | 74.44 | 19.19 | Clear | No | |
| 10:00 | 9.34 | 200.00 | 1200.00 | 4.8 | 0.10 | 74.10 | 0.96 | 62.48 | 18.96 | Clear | No | |
| 10:05 | 9.35 | 200.00 | 1000.00 | 4.83 | 0.08 | 73.00 | 0.30 | 60.80 | 18.97 | Clear | No | |
| 10:10 | 9.35 | 200.00 | 1000.00 | 4.87 | 0.06 | 71.90 | 0.36 | 60.86 | 18.97 | Clear | No | |
| 10:15 | 9.35 | 200.00 | 1000.00 | 4.88 | 0.06 | 73.50 | 1.58 | 60.85 | 18.90 | Clear | No | |
| 10:20 | 9.36 | 200.00 | 1000.00 | 4.87 | 0.05 | 75.20 | 1.35 | 60.65 | 18.81 | Clear | No | |
| 10:25 | 9.36 | 200.00 | 1000.00 | 4.9 | 0.05 | 74.20 | 0.36 | 60.58 | 18.90 | Clear | No | |
| 10:30 | 9.36 | 200.00 | 1000.00 | 4.88 | 0.05 | 75.90 | 0.21 | 60.59 | 18.84 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 09-30-2021 Time: 10:35
Field Filtered: No

Purge Start Time: 09:54
Total Volume Purged (mL): 7200

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.88 |
| Spec. Cond.(µS/cm) | 60.59 |
| Turbidity (NTU) | 0.21 |
| Temp.(°C) | 18.84 |
| DO (mg/L) | 0.05 |
| ORP (mV) | 75.90 |

Screen Interval: 28.0-38.0

| 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: CAP0921-LTW-02-093021
DuplicateID:
QA/QC:

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

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 70.00 |
| Sky: | Partly Sunny |
| Precipitation: | None |
| Wind (mph) | 0 |

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

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | LTW-03 | Well Diameter: | 2 Inches |
| Samplers: | MATT SCHEUER | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 30
Pump Loc: within screen
Method: Peristaltic Pump Date: 09-28-2021 Time: 10:25

*WATER VOLUME CALCULATION*

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

Water Volume = 3.216

Initial Depth to Water (ft.): 12.9 Depth to Well Bottom (ft.): 33

| 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 | 13.28 | 240.00 | 1200.00 | 4.32 | 0.19 | 79.40 | 16.90 | 78.80 | 18.95 | Clear | No | |
| 11:00 | 13.33 | 240.00 | 1200.00 | 4.38 | 0.16 | 74.90 | 11.20 | 78.58 | 18.88 | Clear | No | |
| 11:05 | 13.42 | 240.00 | 1200.00 | 4.36 | 0.11 | 70.50 | 6.98 | 78.21 | 18.53 | Clear | No | |
| 11:10 | 13.48 | 240.00 | 1200.00 | 4.39 | 0.13 | 67.30 | 2.80 | 78.20 | 18.47 | Clear | No | |
| 11:15 | 13.51 | 240.00 | 1200.00 | 4.41 | 0.10 | 65.30 | 2.05 | 77.55 | 18.40 | Clear | No | |
| 11:20 | 13.55 | 240.00 | 1200.00 | 4.43 | 0.08 | 64.40 | 0.92 | 76.62 | 18.37 | Clear | No | |
| 11:25 | 13.59 | 240.00 | 1200.00 | 4.43 | 0.06 | 63.20 | 0.78 | 76.48 | 18.40 | Clear | No | |
| 11:30 | 13.62 | 240.00 | 1200.00 | 4.48 | 0.05 | 60.90 | 0.55 | 76.95 | 18.35 | Clear | No | |
| 11:35 | 13.65 | 240.00 | 1200.00 | 4.47 | 0.05 | 60.90 | 0.45 | 75.81 | 18.35 | Clear | No | |
| 11:40 | 13.66 | 240.00 | 1200.00 | 4.48 | 0.05 | 60.80 | 0.48 | 76.23 | 18.37 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 09-28-2021 Time: 11:45
Field Filtered: No

Purge Start Time: 10:50
Total Volume Purged (mL): 12000

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.48 |
| Spec. Cond.(µS/cm) | 76.23 |
| Turbidity (NTU) | 0.48 |
| Temp.(°C) | 18.37 |
| DO (mg/L) | 0.05 |
| ORP (mV) | 60.80 |

Screen Interval: 15.0-30.0

**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) Including HFPO-DA

Sample ID: CAP0921-LTW-03-092821
DuplicateID:
QA/QC:

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 74.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 7 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | LTW-04 | Well Diameter: | 2 Inches |
| Samplers: | MATT SCHEUER | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 22
Pump Loc: within screen
Method: Peristaltic Pump Date: 09-28-2021 Time: 14:40

*WATER VOLUME CALCULATION*

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

Water Volume = 3.526

Initial Depth to Water (ft.): 7.96 Depth to Well Bottom (ft.): 30

| Time | DTW | Pump Rate | Vol. | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 hr | ft | mL/min | mL | pH units | mg/L | mV | NTU | µS/cm | °C | | | |
| 15:00 | 9.84 | 2.20 | 11.00 | 3.96 | 0.47 | 116.90 | 10.50 | 70.96 | 24.03 | Clear | No | |
| 15:05 | 10.14 | 220.00 | 1540.00 | 3.9 | 0.24 | 116.10 | 8.57 | 71.77 | 23.41 | Clear | No | |
| 15:10 | 11.43 | 220.00 | 1100.00 | 4.06 | 0.44 | 113.50 | 9.13 | 71.14 | 22.45 | Clear | No | |
| 15:15 | 12.21 | 220.00 | 660.00 | 4.08 | 0.41 | 113.10 | 7.33 | 71.95 | 22.93 | Clear | No | |
| 15:20 | 12.00 | 120.00 | 360.00 | 4.18 | 0.11 | 113.00 | 8.43 | 71.42 | 24.12 | Clear | No | |
| 15:25 | 11.88 | 120.00 | 360.00 | 4.16 | 0.08 | 111.60 | 4.78 | 71.88 | 24.88 | Clear | No | |
| 15:30 | 11.79 | 120.00 | 360.00 | 4.21 | 0.07 | 108.10 | 2.10 | 70.39 | 24.48 | Clear | No | |
| 15:35 | 11.72 | 120.00 | 360.00 | 4.48 | 0.07 | 98.00 | 1.71 | 66.64 | 24.17 | Clear | No | |
| 15:40 | 11.70 | 120.00 | 360.00 | 4.5 | 0.07 | 96.30 | 1.80 | 65.93 | 24.34 | Clear | No | |
| 15:45 | 11.70 | 120.00 | 120.00 | 4.6 | 0.07 | 93.00 | 1.03 | 64.95 | 24.36 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 09-28-2021 Time: 15:45
Field Filtered: No

Purge Start Time: 14:55
Total Volume Purged (mL): 5231

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.60 |
| Spec. Cond.(µS/cm) | 64.95 |
| Turbidity (NTU) | 1.03 |
| Temp.(°C) | 24.36 |
| DO (mg/L) | 0.07 |
| ORP (mV) | 93.00 |

Screen Interval: 12.0-27.0

| 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: CAP0921-LTW-04-092821
DuplicateID:
QA/QC:

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

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 88.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 7 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | LTW-05 | Well Diameter: | 2 Inches |
| Samplers: | MATT SCHEUER Luis Torres | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 40
Pump Loc: within screen
Method: Peristaltic Pump Date: 09-29-2021 Time: 10:15

*WATER VOLUME CALCULATION*

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

Water Volume = 5.541

Initial Depth to Water (ft.): 9.37 Depth to Well Bottom (ft.): 44

| Time | DTW | Pump Rate | Vol. | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 hr | ft | mL/min | mL | pH units | mg/L | mV | NTU | µS/cm | °C | | | |
| 10:25 | 9.48 | 250.00 | 1250.00 | 4.14 | 0.24 | 62.60 | 43.00 | 99.99 | 19.82 | Clear | No | |
| 10:30 | 9.48 | 250.00 | 1250.00 | 3.97 | 0.13 | 58.20 | 31.60 | 94.57 | 19.50 | Clear | No | |
| 10:35 | 9.48 | 250.00 | 1250.00 | 3.92 | 0.10 | 63.30 | 23.20 | 94.32 | 19.33 | Clear | No | |
| 10:40 | 9.48 | 250.00 | 1250.00 | 3.91 | 0.08 | 69.00 | 14.30 | 94.10 | 19.46 | Clear | No | |
| 10:45 | 9.49 | 250.00 | 1250.00 | 3.91 | 0.09 | 70.40 | 8.53 | 94.12 | 19.41 | Clear | No | |
| 10:50 | 9.48 | 250.00 | 1250.00 | 3.93 | 0.08 | 71.00 | 8.73 | 94.02 | 19.40 | Clear | No | |
| 10:55 | 9.48 | 250.00 | 1250.00 | 3.95 | 0.08 | 70.50 | 9.48 | 94.17 | 19.42 | Clear | No | |
| 11:00 | 9.48 | 250.00 | 1250.00 | 3.99 | 0.06 | 69.80 | 4.74 | 93.87 | 19.25 | Clear | No | |
| 11:05 | 9.48 | 250.00 | 1250.00 | 4.03 | 0.06 | 69.10 | 4.25 | 94.04 | 19.12 | Clear | No | |
| 11:10 | 9.48 | 250.00 | 1250.00 | 4.06 | 0.06 | 68.90 | 4.05 | 93.76 | 19.44 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 09-29-2021 Time: 11:11
Field Filtered: No

Purge Start Time: 10:20
Total Volume Purged (mL): 12500

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.06 |
| Spec. Cond.(µS/cm) | 93.76 |
| Turbidity (NTU) | 4.05 |
| Temp.(°C) | 19.44 |
| DO (mg/L) | 0.06 |
| ORP (mV) | 68.90 |

Screen Interval: 29.0-44.0

**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) Including HFPO-DA

Sample ID: CAP0921-LTW-05-092921
DuplicateID:
QA/QC:

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 77.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 7 |

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

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# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | OLDOF-1 | Project Manager: | Tracy Ovbey |
| Samplers: | LUKE TART\|LUIS TORRES | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 09-15-2021 | Time: | 11:37 | 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 | | | | |
| CAP0921-OLDOF-1-24-091521 | 09-15-2021 07:36 | | 6.01 | 7.31 | 141.20 | 3.23 | 212.20 | 29.24 | Clear | None | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 09-14-2021 08:36 | Multi Meter ID: | 766679 |
| ISCO End Date and Time: | 09-15-2021 07:36 | Old Outfall Bypass(Yes/No): | 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) |

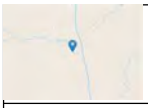
**ALL PARAMETERS ANALYZED**

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 73.00 |
| Sky: | Partly Sunny |
| Precipitation: | None |
| Wind (mph) | 6 |

| | |
|---|---|
| Latitude: | 34.8317485512327 |
| Longitude: | -78.8237282302097 |



GPS Location (if collected)

Sample location

PARSONS

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | OUTFALL 002 | Project Manager: | Tracy Ovbey |
| Samplers: | LUKE TART\|LUIS TORRES | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 09-15-2021 | Time: | 12:14 | 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 | | | | |
| CAP0921-OUTFALL-002-24-091521 | 09-15-2021 06:36 | | 6.88 | 7.48 | 87.90 | 3.48 | 187.11 | 30.06 | Clear | None | MS/REP/D | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 09-14-2021 07:36 | Multi Meter ID: | 766679 |
| ISCO End Date and Time: | 09-15-2021 06:36 | Old Outfall Bypass(Yes/No): | 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**

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 78.00 |
| Sky: | Partly Sunny |
| Precipitation: | None |
| Wind (mph) | 3 |

| | |
|---|---|
| Latitude: | 34.8383237400982 |
| Longitude: | -78.8286488980041 |

GPS Location (if collected)

Sample location

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PIW-1D | Well Diameter: | 2 Inches |
| Samplers: | MATT SCHEUER Luis Torres | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 27
Pump Loc: within screen
Method: Peristaltic Pump Date: 09-20-2021 Time: 14:25

*WATER VOLUME CALCULATION*

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

Water Volume = 2.296

Initial Depth to Water (ft.): 18.95 Depth to Well Bottom (ft.): 33.3

| 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 | | | |
| 14:40 | 18.90 | 250.00 | 1250.00 | 3.48 | 0.14 | 158.40 | 0.82 | 127.43 | 20.42 | Clear | None | |
| 14:45 | 18.97 | 250.00 | 1250.00 | 3.37 | 0.04 | 174.40 | 1.62 | 128.10 | 19.92 | Clear | None | |
| 14:50 | 18.98 | 250.00 | 1250.00 | 3.39 | 0.04 | 179.30 | 1.82 | 128.06 | 20.17 | Clear | None | |
| 14:55 | 18.98 | 250.00 | 1250.00 | 3.41 | 0.03 | 182.40 | 1.40 | 127.94 | 20.53 | Clear | None | |
| 15:00 | 18.98 | 250.00 | 1250.00 | 3.5 | 0.03 | 199.10 | 1.31 | 128.41 | 19.63 | Clear | None | |
| 15:05 | 18.98 | 250.00 | 1250.00 | 3.53 | 0.02 | 201.10 | 0.71 | 128.31 | 19.75 | Clear | None | |
| 15:10 | 18.98 | 250.00 | 1250.00 | 3.56 | 0.02 | 201.10 | 1.14 | 128.32 | 19.61 | Clear | None | |
| 15:15 | 18.98 | 250.00 | 1250.00 | 3.6 | 0.02 | 205.20 | 0.63 | 128.78 | 19.50 | Clear | None | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 09-20-2021 Time: 15:18
Field Filtered: No

Purge Start Time: 14:35
Total Volume Purged (mL): 10000

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 3.60 |
| Spec. Cond.(µS/cm) | 128.78 |
| Turbidity (NTU) | 0.63 |
| Temp.(°C) | 19.50 |
| DO (mg/L) | 0.02 |
| ORP (mV) | 205.20 |

Screen Interval: 24.5 to 29.5

**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) Including HFPO-DA

Sample ID: CAP0921-PIW-1D-092021
DuplicateID:
QA/QC:

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 92.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 2 |

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

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# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PIW-1S | Well Diameter: | 2 Inches |
| Samplers: | JENNESSA PETERSON|LUKE TART | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 17
Pump Loc: within screen
Method: Peristaltic Pump Date: 09-27-2021 Time: 10:30

| *WATER VOLUME CALCULATION* | | | |
|---|---|---|---|
| = (Total Depth of Well - Depth To Water ) x Casing Volume per Foot | | | |
| Water Volume = | 0.162 | | |
| Initial Depth to Water (ft.): | 21.93 | Depth to Well Bottom (ft.): | 22.94 |

| 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 | 20.93 | 250.00 | 1250.00 | 6.49 | 1.39 | -19.80 | 19.00 | 1276.70 | 21.02 | Clear | None | |
| 10:50 | 21.94 | 250.00 | 1250.00 | 4.75 | 0.62 | 160.00 | 9.24 | 339.90 | 21.94 | Clear | None | Well went dry, Turbidity below 20 NTU. Will sample upon well recharge. |
| | | | | | | | | | | | | Returned 9/28/21, to sample reharge. |

**Sampling Data**

Zero HS: --
Method: Purged Dry Date: 9/27/2021 Time: 10:50
Field Filtered: No
Purge Start Time: 10:40
Total Volume Purged (mL): 2500

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.75 |
| Spec. Cond.(µS/cm) | 339.90 |
| Turbidity (NTU) | 9.24 |
| Temp.(°C) | 21.94 |
| DO (mg/L) | 0.62 |
| ORP (mV) | 160.00 |

Screen Interval: 7.8 - 17.8

| 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: CAP0921-PIW-1S-092721
DuplicateID:
QA/QC:

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

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 68.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 2 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

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# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PIW-3D | Well Diameter: | 2 Inches |
| Samplers: | JENNESSA PETERSON\|LUKE TART | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 21
Pump Loc: within screen
Method: Peristaltic Pump Date: 09-29-2021 Time: 09:40

*WATER VOLUME CALCULATION*

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

Water Volume = 1.654

Initial Depth to Water (ft.): 17.46 Depth to Well Bottom (ft.): 27.8

| 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 | | | |
| 10:40 | -- | 200.00 | 7000.00 | 4.34 | 0.08 | 46.50 | 0.95 | 84.20 | 18.76 | Clear | No | Parameters stabilized, original form lost. Final stabilized parameters reported. |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 09-29-2021 Time: 10:40
Field Filtered: No

Purge Start Time: 10:05
Total Volume Purged (mL): 7000

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.34 |
| Spec. Cond.(µS/cm) | 84.20 |
| Turbidity (NTU) | 0.95 |
| Temp.(°C) | 18.76 |
| DO (mg/L) | 0.08 |
| ORP (mV) | 46.50 |

Screen Interval: 19 - 24

| 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) Including HFPO-DA** |

Sample ID: CAP0921-PIW-3D-092921
DuplicateID:
QA/QC:

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 80.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PIW-7D | Well Diameter: | 2 Inches |
| Samplers: | MATT SCHEUER Luis torres | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 32.5
Pump Loc: within screen
Method: Peristaltic Pump Date: 09-29-2021 Time: 14:15

*WATER VOLUME CALCULATION*

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

Water Volume = 4.914

Initial Depth to Water (ft.): 5.29 Depth to Well Bottom (ft.): 36

| 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 | | | |
| 14:25 | 5.30 | 250.00 | 1250.00 | 4.3 | 0.60 | 51.50 | 1.82 | 71.74 | 21.46 | Clear | No | |
| 14:30 | 5.32 | 250.00 | 1250.00 | 4.07 | 0.09 | 64.80 | 0.40 | 73.46 | 20.42 | Clear | No | |
| 14:35 | 5.32 | 250.00 | 1250.00 | 3.84 | 0.05 | 71.50 | 0.63 | 73.99 | 20.35 | Clear | No | |
| 14:40 | 5.32 | 250.00 | 1250.00 | 3.84 | 0.04 | 69.50 | 0.55 | 73.86 | 20.72 | Clear | No | |
| 14:45 | 5.32 | 250.00 | 1250.00 | 3.89 | 0.03 | 66.20 | 0.27 | 73.57 | 20.39 | Clear | No | |
| 14:50 | 5.32 | 250.00 | 1250.00 | 3.64 | 0.03 | 62.90 | 0.50 | 73.90 | 20.21 | Clear | No | |
| 14:54 | 5.32 | 250.00 | 1000.00 | 3.96 | 0.03 | 60.60 | 0.73 | 74.22 | 20.39 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 09-29-2021 Time: 15:00
Field Filtered: No
Purge Start Time: 14:20
Total Volume Purged (mL): 8500

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 3.96 |
| Spec. Cond.(µS/cm) | 74.22 |
| Turbidity (NTU) | 0.73 |
| Temp.(°C) | 20.39 |
| DO (mg/L) | 0.03 |
| ORP (mV) | 60.60 |

Screen Interval: 29 - 34

| 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: CAP0921-PIW-7D-092921
DuplicateID:
QA/QC:

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

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 88.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PIW-7S | Well Diameter: | 2 Inches |
| Samplers: | MATT SCHEUER Luis torres | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 18
Pump Loc: within screen
Method: Peristaltic Pump Date: 09-29-2021 Time: 11:25

*WATER VOLUME CALCULATION*

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

Water Volume = 2.523

Initial Depth to Water (ft.): 5.23 Depth to Well Bottom (ft.): 21

| Time | DTW | Pump Rate | Vol. | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 hr | ft | mL/min | mL | pH units | mg/L | mV | NTU | µS/cm | °C | | | |
| 11:50 | 5.56 | 200.00 | 1000.00 | 4.48 | 0.28 | 58.10 | 5.98 | 101.81 | 22.61 | Clear | No | |
| 11:55 | 5.61 | 200.00 | 1000.00 | 5.46 | 0.10 | 45.80 | 2.40 | 107.21 | 22.22 | Clear | No | |
| 12:00 | 5.63 | 200.00 | 1000.00 | 5.63 | 0.10 | 24.60 | 0.98 | 106.75 | 21.83 | Clear | No | |
| 12:05 | 5.63 | 200.00 | 1000.00 | 5.64 | 0.11 | 15.40 | 1.04 | 105.68 | 22.22 | Clear | No | |
| 12:10 | 5.64 | 200.00 | 1000.00 | 5.61 | 0.08 | 11.80 | 0.76 | 103.65 | 22.50 | Clear | No | |
| 12:15 | 5.63 | 200.00 | 1000.00 | 5.62 | 0.09 | 8.70 | 0.58 | 103.99 | 22.41 | Clear | No | |
| 12:20 | 5.64 | 200.00 | 1000.00 | 5.76 | 0.08 | 5.00 | 0.48 | 105.48 | 22.48 | Clear | No | |
| 12:25 | 5.65 | 200.00 | 1000.00 | 5.65 | 0.07 | 5.30 | 0.80 | 105.00 | 22.47 | Clear | No | |
| 12:30 | 5.65 | 200.00 | 1000.00 | 5.65 | 0.07 | 3.80 | 0.42 | 105.42 | 22.40 | Clear | No | |
| 12:35 | 5.65 | 200.00 | 1000.00 | 5.67 | 0.06 | 5.60 | 0.51 | 105.20 | 22.58 | Clear | No | |
| 12:40 | 5.63 | 200.00 | 1000.00 | 5.67 | 0.06 | 7.10 | 0.62 | 105.56 | 22.96 | Clear | No | |
| 12:45 | 5.63 | 200.00 | 1000.00 | 5.65 | 0.06 | 6.50 | 0.44 | 104.75 | 23.01 | Clear | No | |
| 12:50 | 5.62 | 200.00 | 1000.00 | 5.67 | 0.05 | 5.60 | 0.80 | 105.24 | 22.82 | Clear | No | |
| 12:55 | 5.62 | 200.00 | 1000.00 | 5.66 | 0.05 | 7.50 | 0.61 | 104.77 | 22.81 | Clear | No | |
| 13:00 | 5.62 | 200.00 | 1000.00 | 5.7 | 0.04 | 7.50 | 0.68 | 104.46 | 22.56 | Clear | No | |
| 13:05 | 5.63 | 200.00 | 1000.00 | 5.68 | 0.04 | 7.30 | 0.60 | 104.33 | 22.83 | Clear | No | |
| 13:10 | 5.63 | 200.00 | 1000.00 | 5.71 | 0.03 | 7.80 | 0.43 | 103.42 | 22.67 | Clear | No | |
| 13:15 | 5.62 | 200.00 | 1000.00 | 5.74 | 0.03 | 7.80 | 1.51 | 104.07 | 22.50 | Clear | No | |
| 13:20 | 5.62 | 200.00 | 1000.00 | 5.72 | 0.03 | 7.70 | 0.58 | 104.42 | 22.92 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 09-29-2021 Time: 13:25
Field Filtered: No

Purge Start Time: 11:45
Total Volume Purged (mL): 19000

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 5.72 |
| Spec. Cond.(µS/cm) | 104.42 |
| Turbidity (NTU) | 0.58 |
| Temp.(°C) | 22.92 |
| DO (mg/L) | 0.03 |
| ORP (mV) | 7.70 |

Screen Interval: 7 - 17

| 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) Including HFPO-DA** |

Sample ID: CAP0921-PIW-7S-092921
DuplicateID:
QA/QC:

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 82.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 7 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

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# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PW-04 | Well Diameter: | 2 Inches |
| Samplers: | MATT SCHEUER | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 22
Pump Loc: within screen
Method: Peristaltic Pump Date: 09-28-2021 Time: 12:20

*WATER VOLUME CALCULATION*

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

Water Volume = 0.565

Initial Depth to Water (ft.): 26.47 Depth to Well Bottom (ft.): 30

| 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 | | | |
| 12:40 | 27.05 | 200.00 | 1000.00 | 3.69 | 0.23 | 84.80 | 1.19 | 111.91 | 24.51 | Clear | No | |
| 12:45 | 27.66 | 200.00 | 1000.00 | 3.7 | 0.11 | 83.20 | 2.31 | 124.72 | 24.41 | Clear | No | |
| 12:50 | 28.34 | 200.00 | 1000.00 | 3.7 | 0.12 | 84.70 | 3.05 | 146.32 | 24.86 | Clear | No | |
| 12:55 | 28.59 | 200.00 | 1000.00 | 3.67 | 0.11 | 84.40 | 4.79 | 175.79 | 26.06 | Clear | No | |
| 13:00 | 28.76 | 200.00 | 1000.00 | 3.65 | 0.12 | 86.20 | 6.52 | 207.80 | 26.21 | Clear | No | |
| 13:05 | 28.47 | 150.00 | 750.00 | 3.64 | 0.17 | 85.40 | 38.20 | 241.02 | 27.77 | Clear | No | |
| 13:10 | 29.09 | 150.00 | 750.00 | 3.64 | 0.18 | 85.40 | 8.08 | 254.02 | 28.26 | Clear | No | |
| 13:15 | 29.98 | 150.00 | 750.00 | 3.63 | 0.18 | 85.90 | 4.89 | 263.04 | 28.42 | Clear | No | Well Went dry while sampling, will sample recharge. Sample date and time remain unchanged. |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 09-28-2021 Time: 13:25
Field Filtered: No

Purge Start Time: 12:35
Total Volume Purged (mL): 7250

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 3.63 |
| Spec. Cond.(µS/cm) | 263.04 |
| Turbidity (NTU) | 4.89 |
| Temp.(°C) | 28.42 |
| DO (mg/L) | 0.18 |
| ORP (mV) | 85.90 |

Screen Interval: 17 - 27

**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) Including HFPO-DA

Sample ID: CAP0921-PW-04-092821
DuplicateID:
QA/QC:

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 88.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 7 |

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

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# RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PW-06 | Well Diameter: 2 Inches

Samplers: MATT SCHEUER Luis Torres | Event: Monthly CAP | Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 27

Pump Loc: within screen

Method: Peristaltic Pump | Date: 09-20-2021 | Time: 15:45

*WATER VOLUME CALCULATION*

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

Water Volume = --

Initial Depth to Water (ft.): 19.16 | 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 | | | |
| 16:00 | 19.94 | 240.00 | 1200.00 | 5.31 | 1.15 | 70.60 | 5.83 | 36.12 | 21.75 | Clear | No | |
| 16:05 | 20.24 | 240.00 | 1200.00 | 5.16 | 0.28 | 70.80 | 6.27 | 37.70 | 21.46 | Clear | No | |
| 16:10 | 20.35 | 240.00 | 1200.00 | 4.71 | 0.76 | 92.30 | 2.73 | 31.89 | 21.66 | Clear | No | |
| 16:15 | 20.40 | 240.00 | 1200.00 | 4.56 | 2.42 | 114.40 | 1.47 | 33.06 | 21.10 | Clear | No | |
| 16:20 | 20.42 | 240.00 | 1200.00 | 4.46 | 3.04 | 118.30 | 1.41 | 33.88 | 21.04 | Clear | No | |
| 16:25 | 20.42 | 240.00 | 1200.00 | 4.39 | 3.26 | 126.40 | 0.85 | 36.03 | 21.10 | Clear | No | |
| 16:30 | 20.42 | 240.00 | 1200.00 | 4.33 | 2.90 | 130.30 | 0.84 | 37.42 | 21.26 | Clear | No | |
| 16:35 | 20.42 | 240.00 | 1200.00 | 4.34 | 2.99 | 133.50 | 0.59 | 38.50 | 21.84 | Clear | No | |
| 16:40 | 240.00 | 240.00 | 1200.00 | 4.35 | 2.88 | 136.40 | 0.55 | 38.08 | 21.24 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --

Method: Low Flow | Date: 09-20-2021 | Time: 16:42

Field Filtered: No

Purge Start Time: 15:55

Total Volume Purged (mL): 10800

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.35 |
| Spec. Cond.(µS/cm) | 38.08 |
| Turbidity (NTU) | 0.55 |
| Temp.(°C) | 21.24 |
| DO (mg/L) | 2.88 |
| ORP (mV) | 136.40 |

Screen Interval: 19 - 29

**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: CAP0921-PW-06-092021

DuplicateID:

QA/QC:

**ALL PARAMETERS ANALYZED**

537 MOD (13 PFCAs)|Table 3+ (20)(HL) Including HFPO-DA

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 92.00 |
| Sky: | Partly Cloudy |
| Precipitation: | None |
| Wind (mph) | 4 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PW-07 | Well Diameter: | 2 Inches |
| Samplers: | JENNESSA PETERSON|LUKE TART | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 41
Pump Loc: bottom of well
Method: Double Valve Date: 09-27-2021 Time: 11:25

*WATER VOLUME CALCULATION*

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

Water Volume = 0.594

Initial Depth to Water (ft.): 38.07 Depth to Well Bottom (ft.): 41.78

| 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 | | | |
| 12:20 | 39.15 | 150.00 | 1500.00 | 4.43 | 8.15 | 202.10 | 24.10 | 29.34 | 23.16 | Clear | None | |
| 12:25 | 39.15 | 150.00 | 750.00 | 4.55 | 8.49 | 191.20 | 7.19 | 31.14 | 23.29 | Clear | None | |
| 12:30 | 39.14 | 150.00 | 750.00 | 4.57 | 8.94 | 194.00 | 6.88 | 29.52 | 23.44 | Clear | None | |
| 12:35 | 40.22 | 150.00 | 750.00 | 4.89 | 9.64 | 202.00 | 36.60 | 30.60 | 22.97 | Clear | None | |
| 12:40 | 40.22 | 150.00 | 750.00 | 4.65 | 8.05 | 192.30 | 101.00 | 29.65 | 23.88 | Cloudy | None | |
| 12:45 | 40.67 | 150.00 | 750.00 | 4.67 | 8.05 | 191.70 | 113.00 | 30.99 | 23.88 | Cloudy | None | |
| 12:50 | 40.78 | 150.00 | 750.00 | 4.63 | 8.04 | 186.70 | 99.70 | 31.76 | 23.90 | Cloudy | None | Well went dry, will return tomorrow to continue purging water. Need 13500 ml for five well volumes. |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Five Well Volume Date: -- Time: --
Field Filtered: --

Purge Start Time: 12:10
Total Volume Purged (mL): 6000

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | -- |
| Spec. Cond.(µS/cm) | -- |
| Turbidity (NTU) | -- |
| Temp.(°C) | -- |
| DO (mg/L) | -- |
| ORP (mV) | -- |

Screen Interval: 28 - 38

**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**

--

Sample ID: --
DuplicateID: --
QA/QC: --

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 77.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 4 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | PW-07 | Well Diameter: | 2 Inches |
| Samplers: | JENNESSA PETERSON|LUKE TART | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 41
Pump Loc: bottom of well
Method: Double Valve Date: 9/28/2021 Time: 12:06

*WATER VOLUME CALCULATION*

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

Water Volume = 0.6031

Initial Depth to Water (ft.): 38.08 Depth to Well Bottom (ft.): 41.78

| 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 | | | |
| 12:40 | -- | 100.00 | 1900.00 | 4.6 | 7.85 | 231.40 | 2.23 | 29.00 | 25.15 | Clear | None | Returned to purge more water, parameter readings stabilized. Sampled well after three consecutive readings within 10% of each other. Original form with stabilized readings did not transfer, final stabilized readings provided. |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 9/28/2021 Time: 12:40
Field Filtered: No

Purge Start Time: 12:21
Total Volume Purged (mL): 1900

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.60 |
| Spec. Cond.(µS/cm) | 29.00 |
| Turbidity (NTU) | 2.23 |
| Temp.(°C) | 25.15 |
| DO (mg/L) | 7.85 |
| ORP (mV) | 231.40 |

Screen Interval: 28 - 38

**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 (13PFCAs), Table 3+(20) HL Including HFPO-DA**

Sample ID: CAP0921-PW-07-092821
DuplicateID: --
QA/QC: --

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 77.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 4 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

## RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PW-09 | Well Diameter: 2 Inches

Samplers: CHARLES PACE|LUKE TART | Event: Monthly CAP | Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 50

Pump Loc: within screen

Method: Double valve pump | Date: 09-29-2021 | Time: 12:35

*WATER VOLUME CALCULATION*

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

Water Volume = 5.224

Initial Depth to Water (ft.): 25.06 | Depth to Well Bottom (ft.): 57.71

| Time | DTW | Pump Rate | Vol. | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 hr | ft | mL/min | mL | pH units | mg/L | mV | NTU | µS/cm | °C | | | |
| 12:55 | 27.00 | 280.00 | 1680.00 | 10.28 | 4.01 | -24.70 | 27.10 | 146.98 | 19.19 | Clear | None | |
| 13:00 | 27.82 | 280.00 | 1400.00 | 10.39 | 4.00 | -18.30 | 27.40 | 148.80 | 18.92 | Clear | None | |
| 13:05 | 28.28 | 280.00 | 1400.00 | 10.54 | 3.88 | -19.80 | 27.20 | 181.01 | 18.79 | Clear | None | |
| 13:10 | 28.60 | 280.00 | 1400.00 | 11.31 | 2.59 | -49.80 | 23.80 | 660.60 | 18.83 | Clear | None | |
| 13:15 | 28.72 | 280.00 | 1400.00 | 11.45 | 1.77 | -71.30 | 19.00 | 719.41 | 19.10 | Clear | None | |
| 13:20 | 28.85 | 280.00 | 1400.00 | 11.42 | 1.49 | -70.40 | 33.30 | 554.28 | 18.63 | Clear | None | |
| 13:25 | 28.92 | 280.00 | 1400.00 | 10.43 | 0.69 | -44.20 | 94.10 | 199.73 | 18.78 | Hazy | None | |
| 13:30 | 28.96 | 280.00 | 1400.00 | 9.72 | 0.31 | -25.60 | 105.00 | 150.96 | 18.94 | Cloudy | None | |
| 13:35 | 29.02 | 280.00 | 1400.00 | 9.45 | 0.23 | -28.80 | 97.30 | 139.06 | 18.85 | Cloudy | None | |
| 13:40 | 28.99 | 280.00 | 1400.00 | 9.3 | 0.16 | -32.90 | 90.90 | 130.98 | 18.85 | Cloudy | None | |
| 13:45 | 29.00 | 280.00 | 1400.00 | 9.14 | 0.13 | -47.70 | 91.40 | 120.56 | 18.79 | Cloudy | None | |
| 13:50 | 29.00 | 280.00 | 1400.00 | 8.82 | 0.10 | -124.70 | 85.80 | 113.49 | 18.85 | Cloudy | None | |
| 13:55 | 29.00 | 280.00 | 1400.00 | 8.45 | 0.07 | -184.60 | 78.00 | 108.37 | 19.08 | Cloudy | None | |
| 14:00 | 29.00 | 280.00 | 1400.00 | 8.2 | 0.07 | -190.60 | 80.70 | 105.40 | 19.11 | Cloudy | None | |
| 14:05 | 29.00 | 280.00 | 1400.00 | 7.92 | 0.00 | -193.40 | 74.30 | 102.14 | 18.89 | Cloudy | None | |
| 14:10 | 29.00 | 280.00 | 1400.00 | 7.72 | 0.04 | -185.60 | 70.70 | 98.18 | 18.65 | Hazy | None | |
| 14:15 | 29.00 | 280.00 | 1400.00 | 7.58 | 0.04 | -180.10 | 67.30 | 97.19 | 19.02 | Hazy | None | |
| 14:20 | 29.00 | 280.00 | 1400.00 | 8.94 | 1.22 | -194.70 | 70.20 | 107.09 | 17.97 | Cloudy | None | |
| 14:25 | 32.72 | 600.00 | 3000.00 | 9.22 | 2.37 | -51.50 | 49.20 | 101.83 | 18.07 | Hazy | None | |
| 14:30 | 32.65 | 600.00 | 3000.00 | 8.93 | 2.11 | -50.00 | 49.40 | 99.01 | 18.01 | Hazy | None | |
| 14:35 | 33.90 | 600.00 | 3000.00 | 8.59 | 1.77 | -117.12 | 62.60 | 97.16 | 18.00 | Hazy | None | |
| 14:40 | 34.37 | 600.00 | 3000.00 | 7.89 | 1.37 | -133.00 | 74.40 | 91.89 | 17.92 | Hazy | None | |
| 14:45 | 34.83 | 600.00 | 3000.00 | 7.33 | 1.23 | -103.30 | 74.00 | 87.51 | 18.06 | Hazy | None | |
| 14:50 | 35.15 | 600.00 | 3000.00 | 7.11 | 1.18 | -80.60 | 69.40 | 84.44 | 18.05 | Hazy | None | |
| 14:55 | 35.16 | 600.00 | 3000.00 | 7.07 | 1.07 | -68.20 | 67.70 | 84.30 | 18.01 | Hazy | None | |
| 15:00 | 35.30 | 600.00 | 3000.00 | 6.93 | 0.91 | -60.00 | 70.60 | 83.10 | 18.04 | Hazy | None | |
| 15:05 | 35.45 | 600.00 | 3000.00 | 6.94 | 0.94 | -55.30 | 70.30 | 80.98 | 17.95 | Hazy | None | |
| 15:10 | 35.52 | 600.00 | 3000.00 | 6.93 | 1.10 | -48.00 | 64.10 | 79.90 | 18.21 | Hazy | None | |
| 15:15 | 35.48 | 600.00 | 3000.00 | 6.66 | 0.98 | -55.50 | 68.20 | 79.13 | 17.97 | Hazy | None | |
| 15:20 | 35.50 | 600.00 | 3000.00 | 6.91 | 0.79 | -49.30 | 62.00 | 78.46 | 18.09 | Hazy | None | |
| 15:25 | 35.52 | 600.00 | 3000.00 | 6.88 | 0.92 | -44.50 | 60.60 | 78.00 | 18.00 | Hazy | None | |
| 15:30 | 35.58 | 600.00 | 3000.00 | 6.85 | 0.94 | -45.30 | 60.90 | 77.17 | 17.99 | Hazy | None | |
| 15:35 | 35.43 | 600.00 | 3000.00 | 6.84 | 0.36 | -56.00 | 52.30 | 75.87 | 18.51 | Hazy | None | |
| 15:40 | 34.43 | 600.00 | 3000.00 | 6.67 | 0.05 | -54.40 | 60.50 | 75.72 | 18.89 | Hazy | None | |
| 15:45 | 33.40 | 600.00 | 3000.00 | 6.49 | 0.19 | -55.90 | 52.30 | 75.97 | 18.21 | Hazy | None | |
| 15:50 | 32.29 | 600.00 | 3000.00 | 6.72 | 0.24 | -44.20 | 50.20 | 75.93 | 18.26 | Hazy | None | |
| 15:55 | 32.20 | 600.00 | 3000.00 | 6.69 | 0.26 | -57.50 | 54.70 | 75.80 | 18.48 | Hazy | None | |
| 16:00 | 32.22 | 600.00 | 3000.00 | 6.64 | 0.26 | -51.30 | 51.10 | 75.25 | 18.64 | Hazy | None | |
| 16:05 | 32.26 | 600.00 | 3000.00 | 6.61 | 0.26 | -45.40 | 47.20 | 75.74 | 18.10 | Hazy | None | |
| 16:10 | 33.39 | 600.00 | 3000.00 | 6.67 | 1.25 | -54.40 | 45.70 | 77.27 | 18.01 | Hazy | None | |
| 16:15 | 33.45 | 600.00 | 3000.00 | 6.68 | 1.08 | -48.10 | 46.90 | 77.17 | 17.99 | Hazy | None | |
| 16:20 | 34.08 | 600.00 | 3000.00 | 6.85 | 1.03 | -52.50 | 40.50 | 76.83 | 18.07 | Hazy | None | |
| 16:25 | 33.49 | 600.00 | 3000.00 | 6.72 | 1.19 | -38.20 | 53.22 | 76.29 | 18.03 | Hazy | None | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --

Method: Five Well Volume | Date: 09-29-2021 | Time: 16:25

Purge Start Time: 12:49

Total Volume Purged (mL): 100480

Parsons PLUS creating a safer world

Field Filtered: Yes

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 6.72 |
| Spec. Cond.(µS/cm) | 76.29 |
| Turbidity (NTU) | 53.22 |
| Temp.(°C) | 18.03 |
| DO (mg/L) | 1.19 |
| ORP (mV) | -38.20 |

Screen Interval:

44 - 54

| 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) Including HFPO-DA** |

| | |
|---|---|
| Sample ID: | CAP0921-PW-09-092921 |
| DuplicateID: | CAP0921-PW-09-092921-Z |
| QA/QC: | |

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 76.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PZ-22 | Well Diameter: 2 Inches

Samplers: MATT SCHEUER Luis torres | Event: Monthly CAP | Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 42

Pump Loc: within screen

Method: Peristaltic Pump | Date: 09-29-2021 | Time: 15:15

*WATER VOLUME CALCULATION*

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

Water Volume = 6.88

Initial Depth to Water (ft.): 7 | Depth to Well Bottom (ft.): 50

| Time | DTW | Pump Rate | Vol. | pH | DO | Redox | Turbidity | Spec. Cond. | Temp. | Color | Odor | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 hr | ft | mL/min | mL | pH units | mg/L | mV | NTU | µS/cm | °C | | | |
| 15:25 | -- | 200.00 | 0.00 | 4.53 | 0.34 | 53.10 | 9.12 | 81.24 | 21.60 | Clear | No | |
| 15:30 | -- | 200.00 | 1000.00 | 4.43 | 0.09 | 58.90 | 2.01 | 77.77 | 20.59 | Clear | No | |
| 15:35 | -- | 200.00 | 1000.00 | 4.42 | 0.05 | 59.50 | 1.20 | 77.52 | 20.50 | Clear | No | |
| 15:40 | -- | 200.00 | 1000.00 | 4.42 | 0.05 | 59.30 | 1.07 | 77.39 | 20.65 | Clear | No | |
| 15:45 | -- | 200.00 | 1000.00 | 4.44 | 0.04 | 56.90 | 1.80 | 76.88 | 20.67 | Clear | No | |
| 15:50 | -- | 200.00 | 1000.00 | 4.44 | 0.04 | 55.30 | 1.50 | 76.67 | 20.48 | Clear | No | |
| 15:55 | -- | 200.00 | 1000.00 | 4.44 | 0.03 | 55.50 | 2.14 | 76.40 | 20.53 | Clear | No | |
| 16:00 | -- | 200.00 | 1000.00 | 4.45 | 0.03 | 54.80 | 1.21 | 76.58 | 20.60 | Clear | No | |
| 16:05 | -- | 200.00 | 1000.00 | 4.46 | 0.03 | 53.50 | 0.94 | 75.91 | 20.60 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --

Method: Low Flow | Date: 09-29-2021 | Time: 16:10

Field Filtered: No

Purge Start Time: 15:25

Total Volume Purged (mL): 8000

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.46 |
| Spec. Cond.(µS/cm) | 75.91 |
| Turbidity (NTU) | 0.94 |
| Temp.(°C) | 20.60 |
| DO (mg/L) | 0.03 |
| ORP (mV) | 53.50 |

Screen Interval: 36.0-46.0

| 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: CAP0921-PZ-22-092921

DuplicateID:

QA/QC:

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

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 92.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 6 |

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

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | RIVER-WATER-INTAKE2 | Project Manager: | Tracy Ovbey |
| Samplers: | LUKE TART| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 09-14-2021 | Time: | 15:38 | 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 | | | | |
| RIVER-WATER-INTAKE2-24-091521 | 09-15-2021 05:06 | | 7.02 | 7.31 | 120.90 | 4.62 | 157.53 | 29.19 | Clear | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 09-14-2021 06:06 | Multi Meter ID: | 766679 |
| ISCO End Date and Time: | 09-15-2021 05:06 | Old Outfall Bypass(Yes/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**

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 89.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| Latitude: | -- |
| Longitude: | -- |

GPS Location (if collected)

PARSONS

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | RM-76 | Project Manager: | Tracy Ovbey |
| Samplers: | CHARLES PACE\|MATT SCHEUER\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 09-14-2021 | Time: | 11:45 | 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 | | | | |
| CAP0921-RM-76-091421 | 09-14-2021 12:10 | | 7.06 | 6.23 | 110.20 | 9.51 | 104.55 | 26.12 | Cloudy | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | Peri Pump Grap | Tubing Depth (ft): | 11.5 | Distance to River Right: | 15 |
| Sampling Location: | Thalweg | Multi Meter Used: | Insitu Aqua Troll | Distance to River Left: | 65 |
| Total Depth to Bottom of Channel (ft): | 23 | Multi Meter ID: | 706751 | Distance to River (Right/Left) Units: | m |

**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 |

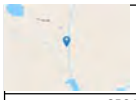
**ALL PARAMETERS ANALYZED**

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA, 537 MOD (HOLD)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 88.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| Latitude: | 34.8537601 |
| Longitude: | -78.8271149 |



GPS Location (if collected)

Sample Location

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | SEEP-A-EFF | Project Manager: | Tracy Ovbey |
| Samplers: | Luke Tart, Luis Torres | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 9/14/2021 | Time: | 13:45 | 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 | | | | |
| CAP0921-SEEP-A-12-EFF-091421 | 9/14/2021 17:48 | | 4.46 | 2.97 | 171.90 | 0.75 | 142.26 | 24.47 | Clear | No | | ISCO ran from 9/14/21 06:48-9/14/21 17:48. Power failure caused composite to end early. |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | | | |
|---|---|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll | Flow Rate: | -- |
| | | Multi Meter ID: | 766679 | Flow Rate Units: | -- |

**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+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

**WEATHER CONDITIONS**

| | |
|---|---|
| Temperature (F): | 89 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| Latitude: | 34.8451521707755 |
| Longitude: | -78.8251297412655 |

GPS Location (if collected)

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

Sample location

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | SEEP-B-EFF | Project Manager: | Tracy Ovbey |
| Samplers: | LUKE TART\|LUIS TORRES | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 09-15-2021 | Time: | 12:01 | 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 | | | | |
| CAP0921-SEEP-B-EFF-24-091521 | 09-15-2021 06:12 | | 5.86 | 3.38 | 132.60 | 0.86 | 125.86 | 24.16 | Clear | None | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 09-14-2021 07:12 | Multi Meter ID: | 766679 |
| ISCO End Date and Time: | 09-15-2021 06:12 | Old Outfall Bypass(Yes/No): | No |

**SAMPLE SET**

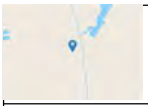
| Parameter | Bottle | Pres. | Method |
|---|---|---|---|
| PFAS | 2-250 mL poly | NP | 537 Mod Including HFPO-DA |
| PFAS | 250 mL poly | NP | Table 3+ (19)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (20)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (19)(HL) |
| PFAS | 250 mL poly | NP | Table 3+ (21)(LL)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

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 76.00 |
| Sky: | Partly Sunny |
| Precipitation: | None |
| Wind (mph) | 4 |

| | |
|---|---|
| Latitude: | 34.8422342409042 |
| Longitude: | -78.8250067515471 |



GPS Location (if collected)


Sample location

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | SEEP-C-EFF | Project Manager: | Tracy Ovbey |
| Samplers: | CHARLES PACE\|LUKE TART\| | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 09-14-2021 | Time: | 14:38 | 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 | | | | |
| CAP0921-SEEP-C-EFF-24-091521 | 09-15-2021 13:37 | | 5.82 | 2.60 | 117.90 | 1.10 | 104.55 | 27.84 | Clear | No | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 09-14-2021 14:37 | Multi Meter ID: | 766679 |
| ISCO End Date and Time: | 09-15-2021 13:37 | Old Outfall Bypass(Yes/No): | -- |

**SAMPLE SET**

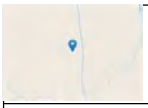
| Parameter | Bottle | Pres. | Method |
|---|---|---|---|
| PFAS | 2-250 mL poly | NP | 537 Mod Including HFPO-DA |
| PFAS | 250 mL poly | NP | Table 3+ (19)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (20)(LL) |
| PFAS | 250 mL poly | NP | Table 3+ (19)(HL) |
| PFAS | 250 mL poly | NP | Table 3+ (21)(LL)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

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 89.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 5 |

| | |
|---|---|
| Latitude: | 34.8383970000175 |
| Longitude: | -78.8245391753305 |



GPS Location (if collected)

ISCO at effluent.

Dry Bypass

PARSONS

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | SEEP-D-EFF | Project Manager: | Tracy Ovbey |
| Samplers: | LUKE TART\|LUIS TORRES | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 09-15-2021 | Time: | 12:26 | 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 | | | | |
| CAP0921-SEEP-D-EFF-24-091521 | 09-15-2021 06:54 | | 4.30 | 3.49 | 188.90 | 1.23 | 121.00 | 27.18 | Clear | None | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 09-14-2021 07:54 | Multi Meter ID: | 766679 |
| ISCO End Date and Time: | 09-15-2021 06:54 | Old Outfall Bypass(Yes/No): | 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**

**Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 76.00 |
| Sky: | Partly Cloudy |
| Precipitation: | None |
| Wind (mph) | 4 |

| | |
|---|---|
| Latitude: | 34.8371765806328 |
| Longitude: | -78.8243809763425 |

GPS Location (if collected)


Sample location

PARSONS

# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | SMW-10 | Well Diameter: | 2 Inches |
| Samplers: | JELANI GILL\|SHARON MORAN | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 45
Pump Loc: within screen
Method: Double valve pump Date: 09-22-2021 Time: 15:10

*WATER VOLUME CALCULATION*

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

Water Volume = --

Initial Depth to Water (ft.): 29.09 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 | | | |
| 15:10 | 29.12 | 250.00 | 0.00 | 5.08 | 0.60 | 155.08 | 41.67 | 113.65 | 18.76 | Clear | No | |
| 15:15 | 29.12 | 250.00 | 1250.00 | 5.07 | 0.65 | 150.10 | 28.03 | 113.66 | 18.97 | Clear | No | |
| 15:20 | 29.12 | 250.00 | 1250.00 | 5.15 | 0.65 | 133.20 | 29.56 | 113.15 | 18.73 | Clear | No | |
| 15:25 | 29.12 | 250.00 | 1250.00 | 5.14 | 0.63 | 121.50 | 27.35 | 113.01 | 18.85 | Clear | No | |
| 15:30 | 29.12 | 250.00 | 1250.00 | 5.2 | 0.65 | 108.80 | 26.09 | 112.63 | 18.59 | Clear | No | |
| 15:35 | 29.12 | 250.00 | 1250.00 | 5.21 | 0.67 | 99.50 | 25.10 | 112.93 | 18.71 | Clear | No | |
| 15:40 | 29.12 | 250.00 | 1250.00 | 5.17 | 0.69 | 93.80 | 18.22 | 112.87 | 19.03 | Clear | No | |
| 15:45 | 29.12 | 250.00 | 1250.00 | 5.28 | 0.65 | 83.00 | 13.50 | 112.63 | 18.71 | Clear | No | |
| 15:50 | 29.12 | 250.00 | 1250.00 | 5.13 | 0.71 | 85.00 | 9.67 | 112.37 | 18.78 | Clear | No | |
| 15:55 | 29.12 | 250.00 | 1250.00 | 5.14 | 0.72 | 79.50 | 8.68 | 112.48 | 18.81 | Clear | No | |
| 16:00 | 29.12 | 250.00 | 1250.00 | 5.23 | 0.66 | 70.00 | 5.80 | 112.40 | 18.75 | Clear | No | |
| 16:05 | 29.12 | 250.00 | 1250.00 | 5.27 | 0.66 | 63.10 | 5.05 | 112.42 | 18.84 | Clear | No | |
| 16:10 | 29.12 | 250.00 | 1250.00 | 5.23 | 0.67 | 61.70 | 4.21 | 112.22 | 18.86 | Clear | No | |
| 16:15 | 29.12 | 250.00 | 1250.00 | 5.15 | 0.63 | 61.50 | 4.03 | 112.68 | 18.91 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 09-22-2021 Time: 16:15
Field Filtered: No

Purge Start Time: 15:10
Total Volume Purged (mL): 16250

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 5.15 |
| Spec. Cond.(µS/cm) | 112.68 |
| Turbidity (NTU) | 4.03 |
| Temp.(°C) | 18.91 |
| DO (mg/L) | 0.63 |
| ORP (mV) | 61.50 |

Screen Interval: 39 to 49

| 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: CAP0921-SMW-10-092221
DuplicateID:
QA/QC:

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

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 77.00 |
| Sky: | Cloudy |
| Precipitation: | Rain |
| Wind (mph) | 6 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

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# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | SMW-11 | Well Diameter: | 2 Inches |
| Samplers: | JELANI GILL\|SHARON MORAN | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 20
Pump Loc: within screen
Method: Peristaltic Pump Date: 09-22-2021 Time: 13:30

*WATER VOLUME CALCULATION*

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

Water Volume = --

Initial Depth to Water (ft.): 13.09 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 | | | |
| 13:40 | 13.28 | 300.00 | 0.00 | 4.02 | 5.11 | 342.00 | 2.61 | 76.33 | 22.07 | Clear | No | |
| 13:45 | 13.28 | 300.00 | 1500.00 | 4.21 | 3.06 | 311.10 | 3.17 | 56.67 | 21.44 | Clear | No | |
| 13:50 | 13.28 | 300.00 | 1500.00 | 4.2 | 3.13 | 269.20 | 0.84 | 57.45 | 21.35 | Clear | No | |
| 13:55 | 13.28 | 300.00 | 1500.00 | 4.19 | 3.20 | 253.20 | 0.77 | 58.00 | 20.95 | Clear | No | |
| 14:00 | 13.28 | 300.00 | 1500.00 | 4.18 | 3.25 | 240.70 | 0.26 | 58.26 | 21.23 | Clear | No | |
| 14:05 | 13.28 | 300.00 | 1500.00 | 4.17 | 3.27 | 237.50 | 0.21 | 58.32 | 21.15 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 09-22-2021 Time: 14:05
Field Filtered: No

Purge Start Time: 13:40
Total Volume Purged (mL): 7500

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 4.17 |
| Spec. Cond.(µS/cm) | 58.32 |
| Turbidity (NTU) | 0.21 |
| Temp.(°C) | 21.15 |
| DO (mg/L) | 3.27 |
| ORP (mV) | 237.50 |

Screen Interval: 13 to 23

**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: CAP0921-SMW-11-092221
DuplicateID: CAP0921-SMW-11-092221-D
QA/QC: Dup|MS|Rep

**ALL PARAMETERS ANALYZED**

**537 MOD (13 PFCAs)|Table 3+ (20)(HL) Including HFPO-DA**

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 75.00 |
| Sky: | Cloudy |
| Precipitation: | Rain |
| Wind (mph) | 6 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

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# RECORD OF WELL SAMPLING

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Well ID: | SMW-12 | Well Diameter: | 2 Inches |
| Samplers: | JELANI GILL\|SHARON MORAN | Event: | Monthly CAP | Project Manager: | Tracy Ovbey |

**Purging Data**

Pump Depth: 94
Pump Loc: within screen
Method: Double valve pump Date: 09-22-2021 Time: 11:10

*WATER VOLUME CALCULATION*

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

Water Volume = --

Initial Depth to Water (ft.): 83.69 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 | | | |
| 11:55 | 83.71 | 180.00 | 900.00 | 3.68 | 0.76 | 167.60 | 7.55 | 313.50 | 22.27 | Clear | No | |
| 12:00 | 83.71 | 180.00 | 900.00 | 3.58 | 0.10 | 109.20 | 0.82 | 317.80 | 19.11 | Clear | No | |
| 12:05 | 83.71 | 180.00 | 900.00 | 3.61 | 0.08 | 94.90 | 0.86 | 317.52 | 19.40 | Clear | No | |
| 12:10 | 83.71 | 180.00 | 900.00 | 3.62 | 0.08 | 87.80 | 1.19 | 317.30 | 19.34 | Clear | No | |
| 12:15 | 83.71 | 180.00 | 900.00 | 3.64 | 0.07 | 78.30 | 0.92 | 316.81 | 19.45 | Clear | No | |
| 12:20 | 83.71 | 180.00 | 900.00 | 3.64 | 0.07 | 72.80 | 0.73 | 316.62 | 19.39 | Clear | No | |
| 12:25 | 83.71 | 180.00 | 900.00 | 3.64 | 0.07 | 66.50 | 0.65 | 316.82 | 19.37 | Clear | No | |
| 12:30 | 83.71 | 180.00 | 900.00 | 3.65 | 0.07 | 61.30 | 0.41 | 316.96 | 19.46 | Clear | No | |
| 12:35 | 83.71 | 180.00 | 900.00 | 3.65 | 0.07 | 57.60 | 0.19 | 317.46 | 19.44 | Clear | No | |
| 12:40 | 83.71 | 180.00 | 900.00 | 3.64 | 0.08 | 54.10 | 0.24 | 316.70 | 19.55 | Clear | No | |
| 12:45 | 83.71 | 180.00 | 900.00 | 3.64 | 0.09 | 49.50 | 0.15 | 316.91 | 19.48 | Clear | No | |
| 12:50 | 83.71 | 180.00 | 900.00 | 3.66 | 0.09 | 48.90 | 0.15 | 317.32 | 19.50 | Clear | No | |
| | | | | | | | | | | | | |

**Sampling Data**

Zero HS: --
Method: Low Flow Date: 09-22-2021 Time: 12:50
Field Filtered: No
Purge Start Time: 11:50
Total Volume Purged (mL): 10800

**Field Parameters**

| STABILIZED PARAMETERS | |
|---|---|
| pH | 3.66 |
| Spec. Cond.(µS/cm) | 317.32 |
| Turbidity (NTU) | 0.15 |
| Temp.(°C) | 19.50 |
| DO (mg/L) | 0.09 |
| ORP (mV) | 48.90 |

Screen Interval: 88 to 98

| 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: CAP0921-SMW-12-092221
DuplicateID:
QA/QC:

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

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 79.00 |
| Sky: | Cloudy |
| Precipitation: | Rain |
| Wind (mph) | 7 |

| | |
|---|---|
| **Water Quality Condition:** | N/A |
| **Water Clarity:** | N/A |
| **Water Color:** | N/A |
| **Water Odor:** | N/A |

# SURFACE WATER SAMPLING RECORD

| | | | | | |
|---|---|---|---|---|---|
| Site Name: | Chemours Fayetteville | Location ID: | WC-1 | Project Manager: | Tracy Ovbey |
| Samplers: | LUKE TART\|Luis Torres | Sampling Event: | Monthly CAP | Event Type: | Sampling |
| Date: | 09-15-2021 | Time: | 10:49 | 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 | | | | |
| CAP0921-WC-1-24-091521 | 09-15-2021 05:00 | | 5.23 | 7.47 | 136.40 | 14.93 | 134.60 | 28.80 | Clear | None | | |
| | | | | | | | | | | | | |

**Sampling Data**

| | | | |
|---|---|---|---|
| Sampling Method: | ISCO Composite | Multi Meter Used: | Insitu Aqua Troll |
| ISCO Start Date and Time: | 09-14-2021 06:00 | Multi Meter ID: | 766679 |
| ISCO End Date and Time: | 09-15-2021 05:00 | Old Outfall Bypass(Yes/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) |

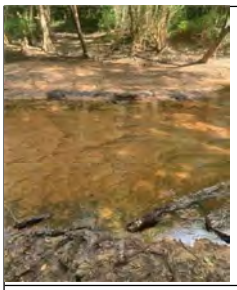
**ALL PARAMETERS ANALYZED**

**Table 3+ (21)(HL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)**

| WEATHER CONDITIONS | |
|---|---|
| Temperature (F): | 73.00 |
| Sky: | Sunny |
| Precipitation: | None |
| Wind (mph) | 4 |

| | |
|---|---|
| Latitude: | 34.85135235386 |
| Longitude: | -78.8278330222501 |

GPS Location (if collected)



Sample location and flow location

# Appendix D
# Laboratory Reports and DVM Report

# ADQM Data Review

**Site: Chemours Fayetteville**

**Project: CAP MW 8/21 Sampling**

**Project Reviewer: Bridget Gavaghan**

# Sample Summary

| Field Sample ID | Lab Sample ID | Sample Matrix | Filtered | Sample Date | Sample Time | Sample Purpose |
|---|---|---|---|---|---|---|
| CAP0821-PW-09-081221 | 320-77906-1 | Groundwater | N | 08/12/2021 | 16:35 | FS |
| CAP0821-PW-09-081221-Z | 320-77906-2 | Groundwater | Y | 08/12/2021 | 16:35 | FS |
| CAP0821-PW-06-081321 | 320-77906-3 | Groundwater | N | 08/13/2021 | 11:20 | FS |
| CAP0821-EQBLK-DV-081221 | 320-77906-4 | Blank Water | N | 08/12/2021 | 17:00 | FB |
| CAP0821-SMW-11-081221 | 320-77906-5 | Groundwater | N | 08/12/2021 | 11:35 | FS |
| CAP0821-PIW-1D-082621 | 320-78267-1 | Groundwater | N | 08/26/2021 | 13:00 | FS |
| CAP0821-PIW-1S-082621 | 320-78267-2 | Groundwater | N | 08/26/2021 | 12:10 | FS |
| CAP0821-LTW-05-082621 | 320-78267-3 | Groundwater | N | 08/26/2021 | 16:10 | FS |
| CAP0821-SMW-10-082521 | 320-78267-4 | Groundwater | N | 08/25/2021 | 13:40 | FS |
| CAP0821-SMW-12-082521 | 320-78267-5 | Groundwater | N | 08/25/2021 | 15:30 | FS |
| CAP0821-PW-04-082521 | 320-78267-6 | Groundwater | N | 08/25/2021 | 14:20 | FS |
| CAP0821-PW-07-082721 | 320-78279-1 | Groundwater | N | 08/27/2021 | 12:50 | FS |
| CAP0821-PW-07-082721-Z | 320-78279-2 | Groundwater | Y | 08/27/2021 | 12:50 | FS |
| CAP0821-EQBLK-PP-082521 | 320-78279-3 | Blank Water | N | 08/25/2021 | 12:00 | EB |
| CAP0821-PIW-7D-083021 | 320-78460-1 | Groundwater | N | 08/30/2021 | 12:35 | FS |
| CAP0821-PIW-7S-083021 | 320-78460-2 | Groundwater | N | 08/30/2021 | 11:40 | FS |
| CAP0821-PZ-22-083021 | 320-78460-3 | Groundwater | N | 08/30/2021 | 14:10 | FS |
| CAP0821-LTW-04-083021 | 320-78460-4 | Groundwater | N | 08/30/2021 | 15:10 | FS |
| CAP0821-LTW-03-083121 | 320-78460-5 | Groundwater | N | 08/31/2021 | 11:10 | FS |
| CAP0821-PIW-3D-083121 | 320-78497-1 | Groundwater | N | 08/31/2021 | 14:00 | FS |
| CAP0821-PIW-3D-083121-D | 320-78497-2 | Groundwater | N | 08/31/2021 | 14:00 | DUP |
| CAP0821-LTW-01-083121 | 320-78497-3 | Groundwater | N | 08/31/2021 | 14:25 | FS |
| CAP0821-LTW-02-083121 | 320-78497-4 | Groundwater | N | 08/31/2021 | 13:25 | 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 TestAmerica, Sacramento | 537 Modified | Per- and Polyfluorinated Alkyl Substances (PFAS) | CAP MW Sampling 08/21 |
| Eurofins TestAmerica, Sacramento | Cl. Spec. Table 3 Compound SOP | Per- and Polyfluorinated Alkyl Substances (PFAS) | CAP MW Sampling 08/21 |

# 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 | | | 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 | | | | | |

| ER# | Description |
|---|---|
| | |
| | |

**Other QA/QC Items to Note:**

* See DVM Narrative Report, Laboratory Report, and/or ER # for further details as indicated.

The electronic data submitted for this project were reviewed via the Data Verification Module (DVM) process. Overall, the data are acceptable for use without qualification, except as noted on the attached DVM Narrative Report.

The lab reports due to a large page count are stored on a network shared drive and are available to be posted on external shared drives, or on a flash drive.

## Data Verification Module (DVM)

The DVM is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software, Locus EIM™ database Data Verification Module (DVM), and manual reviewer evaluations. The data are evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike (MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- Difference/RPD between field duplicate sample pairs
- RPD between laboratory replicates for inorganic analyses
- Difference/percent difference between total and dissolved sample pairs

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 08/21 **Validation Options:** LABSTATS

**Validation Reason** High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

| Field Sample ID | Date Sampled | Lab Sample ID | Analyte | Result | Units | Type | MDL | PQL | Validation Qualifier | Analytical Method | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0821-SMW-11-081221 | 08/12/2021 | 320-77906-5 | R-PSDA | 0.14 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 08/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0821-LTW-01-083121 | 08/31/2021 | 320-78497-3 | R-PSDA | 0.67 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LTW-01-083121 | 08/31/2021 | 320-78497-3 | Hydrolyzed PSDA | 0.35 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LTW-01-083121 | 08/31/2021 | 320-78497-3 | R-EVE | 0.42 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LTW-02-083121 | 08/31/2021 | 320-78497-4 | R-PSDA | 0.38 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LTW-02-083121 | 08/31/2021 | 320-78497-4 | Hydrolyzed PSDA | 0.70 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LTW-02-083121 | 08/31/2021 | 320-78497-4 | R-EVE | 0.23 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LTW-03-083121 | 08/31/2021 | 320-78460-5 | R-PSDA | 0.53 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LTW-03-083121 | 08/31/2021 | 320-78460-5 | Hydrolyzed PSDA | 2.9 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LTW-03-083121 | 08/31/2021 | 320-78460-5 | R-EVE | 0.28 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LTW-04-083021 | 08/30/2021 | 320-78460-4 | R-PSDA | 1.6 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LTW-04-083021 | 08/30/2021 | 320-78460-4 | Hydrolyzed PSDA | 3.5 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LTW-04-083021 | 08/30/2021 | 320-78460-4 | R-EVE | 1.5 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LTW-05-082621 | 08/26/2021 | 320-78267-3 | R-PSDA | 0.43 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LTW-05-082621 | 08/26/2021 | 320-78267-3 | Hydrolyzed PSDA | 0.85 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LTW-05-082621 | 08/26/2021 | 320-78267-3 | R-EVE | 0.47 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-PIW-1D-082621 | 08/26/2021 | 320-78267-1 | R-PSDA | 0.29 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 08/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0821-PIW-1D-082621 | 08/26/2021 | 320-78267-1 | R-EVE | 0.15 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-PIW-1S-082621 | 08/26/2021 | 320-78267-2 | R-PSDA | 0.59 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-PIW-1S-082621 | 08/26/2021 | 320-78267-2 | R-EVE | 0.41 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-PIW-3D-083121 | 08/31/2021 | 320-78497-1 | R-PSDA | 0.31 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-PIW-3D-083121 | 08/31/2021 | 320-78497-1 | R-PSDA | 0.31 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-PIW-3D-083121 | 08/31/2021 | 320-78497-1 | R-EVE | 0.17 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-PIW-3D-083121 | 08/31/2021 | 320-78497-1 | R-EVE | 0.18 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-PIW-3D-083121-D | 08/31/2021 | 320-78497-2 | R-PSDA | 0.36 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-PIW-3D-083121-D | 08/31/2021 | 320-78497-2 | R-EVE | 0.21 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-PIW-7D-083021 | 08/30/2021 | 320-78460-1 | R-PSDA | 0.37 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-PIW-7D-083021 | 08/30/2021 | 320-78460-1 | Hydrolyzed PSDA | 0.65 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-PIW-7D-083021 | 08/30/2021 | 320-78460-1 | R-EVE | 0.47 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-PIW-7S-083021 | 08/30/2021 | 320-78460-2 | R-PSDA | 0.65 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-PIW-7S-083021 | 08/30/2021 | 320-78460-2 | Hydrolyzed PSDA | 0.041 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-PIW-7S-083021 | 08/30/2021 | 320-78460-2 | R-EVE | 0.72 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-PZ-22-083021 | 08/30/2021 | 320-78460-3 | R-PSDA | 0.32 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-PZ-22-083021 | 08/30/2021 | 320-78460-3 | Hydrolyzed PSDA | 0.50 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 08/21 **Validation Options:** LABSTATS

**Validation Reason** 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 SOP | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0821-PZ-22-083021 | 08/30/2021 | 320-78460-3 | R-EVE | 0.29 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-SMW-12-082521 | 08/25/2021 | 320-78267-5 | R-PSDA | 0.094 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

# ADQM Data Review

**Site: Chemours Fayetteville**

**Project: CAP MW 9/21 Sampling**

**Project Reviewer: Bridget Gavaghan**

# Sample Summary

| Field Sample ID | Lab Sample ID | Sample Matrix | Filtered | Sample Date | Sample Time | Sample |
|---|---|---|---|---|---|---|
| CAP0921-PW-06-092021 | 320-79496-1 | Groundwater | N | 09/20/2021 | 16:42 | FS |
| CAP0921-PIW-1D-092021 | 320-79496-2 | Groundwater | N | 09/20/2021 | 15:18 | FS |
| CAP0921-SMW-10-092221 | 320-79496-3 | Groundwater | N | 09/22/2021 | 16:15 | FS |
| CAP0921-SMW-12-092221 | 320-79496-4 | Groundwater | N | 09/22/2021 | 12:50 | FS |
| CAP0921-EQBLK-DV-092221 | 320-79496-5 | Blank Water | N | 09/22/2021 | 11:00 | EB |
| CAP0921-SMW-11-092221 | 320-79503-1 | Groundwater | N | 09/22/2021 | 14:05 | FS |
| CAP0921-SMW-11-092221-D | 320-79503-2 | Groundwater | N | 09/22/2021 | 14:05 | DUP |
| CAP0921-EQBLK-PP-092221 | 320-79503-3 | Blank Water | N | 09/22/2021 | 11:05 | EB |
| CAP0921-LTW-02-093021 | 320-79706-1 | Groundwater | N | 09/30/2021 | 10:35 | FS |
| CAP0921-PZ-22-092921 | 320-79706-2 | Groundwater | N | 09/29/2021 | 16:10 | FS |
| CAP0921-PW-04-092821 | 320-79706-3 | Groundwater | N | 09/28/2021 | 13:25 | FS |
| CAP0921-LTW-04-092821 | 320-79706-4 | Groundwater | N | 09/28/2021 | 15:45 | FS |
| CAP0921-PW-07-092821 | 320-79706-5 | Groundwater | N | 09/28/2021 | 12:40 | FS |
| CAP0921-LTW-01-092821 | 320-79706-6 | Groundwater | N | 09/28/2021 | 16:30 | FS |
| CAP0921-LTW-03-092821 | 320-79706-7 | Groundwater | N | 09/28/2021 | 11:45 | FS |
| CAP0921-PIW-1S-092721 | 320-79707-1 | Groundwater | N | 09/27/2021 | 10:50 | FS |
| CAP0921-PIW-7S-092921 | 320-79707-2 | Groundwater | N | 09/29/2021 | 13:25 | FS |
| CAP0921-PIW-7D-092921 | 320-79707-3 | Groundwater | N | 09/29/2021 | 15:00 | FS |
| CAP0921-PW-09-092921 | 320-79707-4 | Groundwater | N | 09/29/2021 | 16:25 | FS |
| CAP0921-PW-09-092921-Z | 320-79707-5 | Groundwater | Y | 09/29/2021 | 16:25 | FS |
| CAP0921-LTW-05-092921 | 320-79707-6 | Groundwater | N | 09/29/2021 | 11:11 | FS |
| CAP0921-PIW-3D-092921 | 320-79707-7 | Groundwater | N | 09/29/2021 | 10:40 | FS |
| CAP0921-EQBLK-PP-092921-Z | 320-79769-1 | Blank Water | Y | 09/29/2021 | 17:00 | EB |

* 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 TestAmerica, Sacramento | 537 Modified | Per- and Polyfluorinated Alkyl Substances (PFAS) | CAP MW Sampling 9/21 |
| Eurofins TestAmerica, Sacramento | Cl. Spec. Table 3 Compound SOP | Per- and Polyfluorinated Alkyl Substances (PFAS) | CAP MW Sampling 9/21 |

# 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 | | | 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 | | | | | |
| 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 | | | | | |

| ER# | Description |
|---|---|
| | |
| | |

**Other QA/QC Items to Note:**

* See DVM Narrative Report, Laboratory Report, and/or ER # for further details as indicated.

The electronic data submitted for this project were reviewed via the Data Verification Module (DVM) process. Overall, the data are acceptable for use without qualification, except as noted on the attached DVM Narrative Report.
The lab reports due to a large page count are stored on a network shared drive and are available to be posted on external shared drives, or on a flash drive.

## Data Verification Module (DVM)

The DVM is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software, Locus EIM™ database Data Verification Module (DVM), and manual reviewer evaluations. The data are evaluated against the following data usability checks:

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- 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 9/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0921-PIW-1S-092721 | 09/27/2021 | 320-79707-1 | Perfluorotetradecanoic Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | 537 Modified | | 3535_PFC |
| CAP0921-PIW-1S-092721 | 09/27/2021 | 320-79707-1 | Perfluorohexadecanoic Acid (PFHxDA) | 0.0020 | ug/L | PQL | | 0.0020 | UJ | 537 Modified | | 3535_PFC |
| CAP0921-PIW-1S-092721 | 09/27/2021 | 320-79707-1 | Perfluorotridecanoic Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | 537 Modified | | 3535_PFC |
| CAP0921-PIW-1S-092721 | 09/27/2021 | 320-79707-1 | Perfluorooctadecanoic Acid | 0.0020 | ug/L | PQL | | 0.0020 | UJ | 537 Modified | | 3535_PFC |
| CAP0921-PIW-1S-092721 | 09/27/2021 | 320-79707-1 | Perfluoroundecanoic Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | 537 Modified | | 3535_PFC |
| CAP0921-PIW-1S-092721 | 09/27/2021 | 320-79707-1 | Perfluorododecanoic Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | 537 Modified | | 3535_PFC |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 9/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0921-PIW-1S-092721 | 09/27/2021 | 320-79707-1 | R-PSDA | 0.51 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-PIW-1S-092721 | 09/27/2021 | 320-79707-1 | R-EVE | 0.36 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-PIW-3D-092921 | 09/29/2021 | 320-79707-7 | R-PSDA | 0.39 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-PIW-3D-092921 | 09/29/2021 | 320-79707-7 | R-EVE | 0.18 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-PIW-7D-092921 | 09/29/2021 | 320-79707-3 | R-PSDA | 0.26 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-PIW-7D-092921 | 09/29/2021 | 320-79707-3 | Hydrolyzed PSDA | 0.42 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-PIW-7D-092921 | 09/29/2021 | 320-79707-3 | R-EVE | 0.37 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-PIW-7S-092921 | 09/29/2021 | 320-79707-2 | R-PSDA | 0.65 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-PIW-7S-092921 | 09/29/2021 | 320-79707-2 | Hydrolyzed PSDA | 0.055 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-PIW-7S-092921 | 09/29/2021 | 320-79707-2 | R-EVE | 0.76 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-PW-06-092021 | 09/20/2021 | 320-79496-1 | R-PSDA | 0.095 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-PZ-22-092921 | 09/29/2021 | 320-79706-2 | R-PSDA | 0.27 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-PZ-22-092921 | 09/29/2021 | 320-79706-2 | Hydrolyzed PSDA | 0.41 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-PZ-22-092921 | 09/29/2021 | 320-79706-2 | R-EVE | 0.30 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SMW-10-092221 | 09/22/2021 | 320-79496-3 | Hydrolyzed PSDA | 0.0043 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SMW-11-092221 | 09/22/2021 | 320-79503-1 | R-PSDA | 0.15 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 9/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0921-SMW-11-092221 | 09/22/2021 | 320-79503-1 | R-PSDA | 0.18 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SMW-11-092221 | 09/22/2021 | 320-79503-1 | R-EVE | 0.10 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SMW-11-092221 | 09/22/2021 | 320-79503-1 | R-EVE | 0.093 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SMW-11-092221-D | 09/22/2021 | 320-79503-2 | R-PSDA | 0.16 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SMW-11-092221-D | 09/22/2021 | 320-79503-2 | R-EVE | 0.12 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SMW-12-092221 | 09/22/2021 | 320-79496-4 | R-PSDA | 0.15 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SMW-12-092221 | 09/22/2021 | 320-79496-4 | R-EVE | 0.12 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-LTW-01-092821 | 09/28/2021 | 320-79706-6 | R-PSDA | 0.70 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-LTW-01-092821 | 09/28/2021 | 320-79706-6 | Hydrolyzed PSDA | 0.41 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-LTW-01-092821 | 09/28/2021 | 320-79706-6 | R-EVE | 0.46 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-LTW-02-093021 | 09/30/2021 | 320-79706-1 | R-PSDA | 0.26 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-LTW-02-093021 | 09/30/2021 | 320-79706-1 | Hydrolyzed PSDA | 0.62 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-LTW-02-093021 | 09/30/2021 | 320-79706-1 | R-EVE | 0.26 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-LTW-03-092821 | 09/28/2021 | 320-79706-7 | R-PSDA | 0.53 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-LTW-03-092821 | 09/28/2021 | 320-79706-7 | Hydrolyzed PSDA | 2.6 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-LTW-03-092821 | 09/28/2021 | 320-79706-7 | R-EVE | 0.33 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-LTW-04-092821 | 09/28/2021 | 320-79706-4 | R-PSDA | 1.5 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 9/21 **Validation Options:** LABSTATS

**Validation Reason** 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 SOP | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0921-LTW-04-092821 | 09/28/2021 | 320-79706-4 | Hydrolyzed PSDA | 2.6 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-LTW-04-092821 | 09/28/2021 | 320-79706-4 | R-EVE | 1.4 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-LTW-05-092921 | 09/29/2021 | 320-79707-6 | R-PSDA | 0.45 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-LTW-05-092921 | 09/29/2021 | 320-79707-6 | Hydrolyzed PSDA | 0.68 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-LTW-05-092921 | 09/29/2021 | 320-79707-6 | R-EVE | 0.50 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-PIW-1D-092021 | 09/20/2021 | 320-79496-2 | R-PSDA | 0.44 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-PIW-1D-092021 | 09/20/2021 | 320-79496-2 | Hydrolyzed PSDA | 0.056 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-PIW-1D-092021 | 09/20/2021 | 320-79496-2 | R-EVE | 0.26 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 9/21 **Validation Options:** LABSTATS

**Validation Reason** The preparation 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0921-PIW-1S-092721 | 09/27/2021 | 320-79707-1 | PFOA | 0.033 | UG/L | PQL | | 0.0020 | J | 537 Modified | | 3535_PFC |
| CAP0921-PIW-1S-092721 | 09/27/2021 | 320-79707-1 | Perfluorodecanoic Acid | 0.0037 | UG/L | PQL | | 0.0020 | J | 537 Modified | | 3535_PFC |
| CAP0921-PIW-1S-092721 | 09/27/2021 | 320-79707-1 | Perfluorobutanoic Acid | 0.076 | UG/L | PQL | | 0.0050 | J | 537 Modified | | 3535_PFC |
| CAP0921-PIW-1S-092721 | 09/27/2021 | 320-79707-1 | Perfluoroheptanoic Acid | 0.022 | UG/L | PQL | | 0.0020 | J | 537 Modified | | 3535_PFC |
| CAP0921-PIW-1S-092721 | 09/27/2021 | 320-79707-1 | Perfluorononanoic Acid | 0.0078 | UG/L | PQL | | 0.0020 | J | 537 Modified | | 3535_PFC |
| CAP0921-PIW-1S-092721 | 09/27/2021 | 320-79707-1 | Perfluoropentanoic Acid | 0.14 | UG/L | PQL | | 0.0020 | J | 537 Modified | | 3535_PFC |
| CAP0921-PIW-1S-092721 | 09/27/2021 | 320-79707-1 | Perfluorohexanoic Acid | 0.014 | UG/L | PQL | | 0.0020 | J | 537 Modified | | 3535_PFC |

# ADQM Data Review

**Site: Chemours Fayetteville**

**Project: CAP MW Sampling 07/21**

**Project Reviewer: Bridget Gavaghan**

# Sample Summary

| Field Sample ID | Lab Sample ID | Sample Matrix | Filtered | Sample Date | Sample Time | Sample Purpose |
|---|---|---|---|---|---|---|
| CAP0721-BLADEN-4S-070921 | 320-76176-1 | Groundw ater | N | 07/09/2021 | 14:14 | FS |
| CAP0721-BLADEN-4D-070921 | 320-76176-2 | Groundw ater | N | 07/09/2021 | 15:00 | FS |
| CAP0721-BLADEN-2S-070921 | 320-76176-3 | Groundw ater | N | 07/09/2021 | 11:02 | FS |
| CAP0721-BLADEN-2D-070921 | 320-76176-4 | Groundw ater | N | 07/09/2021 | 11:20 | FS |
| CAP0721-BLADEN-1S-070821 | 320-76176-5 | Groundw ater | N | 07/08/2021 | 15:34 | FS |
| CAP0621-SMW-11-070921 | 320-76176-6 | Groundw ater | N | 07/09/2021 | 13:10 | FS |
| CAP0721-MW-9S-070921 | 320-76194-1 | Groundw ater | N | 07/09/2021 | 14:55 | FS |
| CAP0721-PW-09-070921 | 320-76194-2 | Groundw ater | N | 07/09/2021 | 12:10 | FS |
| CAP0721-PW-09-070921-Z | 320-76194-3 | Groundw ater | Y | 07/09/2021 | 12:10 | FS |
| CAP0721-PZ-14-070921 | 320-76194-4 | Groundw ater | N | 07/09/2021 | 11:50 | FS |
| CAP0721-PZ-13-070921 | 320-76194-5 | Groundw ater | N | 07/09/2021 | 12:50 | FS |
| CAP0721-PZ-15-070921 | 320-76194-6 | Groundw ater | N | 07/09/2021 | 14:55 | FS |
| CAP0721-SMW-12-070721 | 320-76201-1 | Groundw ater | N | 07/07/2021 | 12:50 | FS |
| CAP0721-SMW-12-070721-D | 320-76201-2 | Groundw ater | N | 07/07/2021 | 12:50 | DUP |
| CAP0721-CUMBERLAND-5S-070721 | 320-76201-3 | Groundw ater | N | 07/07/2021 | 15:02 | FS |
| CAP0721-SMW-09-070721 | 320-76201-4 | Groundw ater | N | 07/07/2021 | 16:35 | FS |
| CAP0721-NAF-04-070721 | 320-76205-1 | Groundw ater | N | 07/07/2021 | 15:15 | FS |
| CAP0721-NAF-07-070721 | 320-76205-2 | Groundw ater | N | 07/07/2021 | 16:30 | FS |
| CAP0721-NAF-08A-070721 | 320-76205-3 | Groundw ater | N | 07/07/2021 | 11:10 | FS |
| CAP0721-EQBLK-PP-070721 | 320-76205-4 | Blank Water | N | 07/07/2021 | 17:00 | EB |
| CAP0721-EQBLK-DV-070721 | 320-76205-5 | Blank Water | N | 07/07/2021 | 17:05 | EB |
| CAP0721-CUMBERLAND-3D-071221 | 320-76207-1 | Groundw ater | N | 07/12/2021 | 14:24 | FS |
| CAP0721-CUMBERLAND-3S-071221 | 320-76207-2 | Groundw ater | N | 07/12/2021 | 14:23 | FS |
| CAP0721-CUMBERLAND-4S-071221 | 320-76207-3 | Groundw ater | N | 07/12/2021 | 17:12 | FS |
| CAP0621-EQBLK-DV-071221 | 320-76207-4 | Blank Water | N | 07/12/2021 | 12:55 | EB |
| CAP0621-EQBLK-PP-071221 | 320-76207-5 | Blank Water | N | 07/12/2021 | 13:05 | EB |
| CAP0621-EQBLK-PP-071221-Z | 320-76207-6 | Blank Water | Y | 07/12/2021 | 13:15 | EB |
| CAP0721-CUMBERLAND-2D-071221 | 320-76211-1 | Groundw ater | N | 07/12/2021 | 12:45 | FS |
| CAP0621-NAF-11A-071221 | 320-76211-2 | Groundw ater | N | 07/12/2021 | 12:50 | FS |
| CAP0621-NAF-11A-071221-D | 320-76211-3 | Groundw ater | N | 07/12/2021 | 12:50 | DUP |
| CAP0721-CUMBERLAND-2S-071221 | 320-76211-4 | Groundw ater | N | 07/12/2021 | 12:34 | FS |
| CAP0721-PW-12-070821 | 320-76215-1 | Groundw ater | N | 07/08/2021 | 14:45 | FS |
| CAP0721-MW-21D-070821 | 320-76215-2 | Groundw ater | N | 07/08/2021 | 15:55 | FS |
| CAP0721-CUMBERLAND-1S-070821 | 320-76215-3 | Groundw ater | N | 07/08/2021 | 18:02 | FS |
| CAP0721-CUMBERLAND-1D-070821 | 320-76215-4 | Groundw ater | N | 07/08/2021 | 17:24 | FS |
| CAP0721-ROBESON-1S-070821 | 320-76215-5 | Groundw ater | N | 07/08/2021 | 14:36 | FS |
| CAP0721-ROBESON-1D-070821 | 320-76215-6 | Groundw ater | N | 07/08/2021 | 13:40 | FS |
| CAP0721-MW-25-070921 | 320-76219-1 | Groundw ater | N | 07/09/2021 | 13:50 | FS |
| CAP0721-MW-30-070921 | 320-76219-2 | Groundw ater | N | 07/09/2021 | 14:15 | FS |
| CAP0721-NAF-09-070921 | 320-76219-3 | Groundw ater | N | 07/09/2021 | 12:25 | FS |
| CAP0721-NAF-10-070921 | 320-76219-4 | Groundw ater | N | 07/09/2021 | 11:15 | FS |
| CAP0721-NAF-02-070821 | 320-76219-5 | Groundw ater | N | 07/08/2021 | 16:25 | FS |
| CAP0721-NAF-01-070821 | 320-76219-6 | Groundw ater | N | 07/08/2021 | 14:55 | FS |
| CAP0721-MW-27-071421 | 320-76320-1 | Groundw ater | N | 07/14/2021 | 15:15 | FS |
| CAP0721-MW-28-071421 | 320-76320-2 | Groundw ater | N | 07/14/2021 | 16:10 | FS |
| CAP0721-BCA-03R-071421 | 320-76320-3 | Groundw ater | N | 07/14/2021 | 11:40 | FS |
| CAP0721-PIW-1S-071421 | 320-76320-4 | Groundw ater | N | 07/14/2021 | 17:05 | FS |
| CAP0721-MW-13D-071421 | 320-76320-5 | Groundw ater | N | 07/14/2021 | 16:23 | FS |
| CAP0721-SMW-06B-071421 | 320-76321-1 | Groundw ater | N | 07/14/2021 | 16:40 | FS |
| CAP0721-SMW-06B-071421-D | 320-76321-2 | Groundw ater | N | 07/14/2021 | 16:40 | DUP |
| CAP0721-MW-16D-071421 | 320-76321-3 | Groundw ater | N | 07/14/2021 | 13:57 | FS |
| CAP0721-SMW-05P-071421 | 320-76321-4 | Groundw ater | N | 07/14/2021 | 14:45 | FS |
| CAP0721-NAF-06-071221 | 320-76322-1 | Groundw ater | N | 07/12/2021 | 16:30 | FS |
| CAP0721-NAF-06-071221-Z | 320-76322-2 | Groundw ater | Y | 07/12/2021 | 16:30 | FS |
| CAP0721-CUMBERLAND-4D-071221 | 320-76322-3 | Groundw ater | N | 07/12/2021 | 18:03 | FS |
| CAP0721-PZ-24-071321 | 320-76322-4 | Groundw ater | N | 07/13/2021 | 13:25 | FS |
| CAP0721-PZ-26-071321 | 320-76322-5 | Groundw ater | N | 07/13/2021 | 14:45 | FS |
| CAP0721-PZ-28-071321 | 320-76322-6 | Groundw ater | N | 07/13/2021 | 14:30 | FS |

| Field Sample ID | Lab Sample ID | Sample Matrix | Filtered | Sample Date | Sample Time | Sample Purpose |
|---|---|---|---|---|---|---|
| CAP0721-MW-23-071321 | 320-76340-1 | Groundw ater | N | 07/13/2021 | 13:30 | FS |
| CAP0721-INSITU-01-071321 | 320-76340-2 | Groundw ater | N | 07/13/2021 | 15:20 | FS |
| CAP0721-BLADEN-3D-071321 | 320-76340-3 | Groundw ater | N | 07/13/2021 | 12:20 | FS |
| CAP0721-BLADEN-3S-071321 | 320-76340-4 | Groundw ater | N | 07/13/2021 | 11:35 | FS |
| CAP0721-PZ-19R-071521 | 320-76384-1 | Groundw ater | N | 07/15/2021 | 10:50 | FS |
| CAP0721-PZ-20R-071521 | 320-76384-2 | Groundw ater | N | 07/15/2021 | 11:50 | FS |
| CAP0721-PZ-21R-071521 | 320-76384-3 | Groundw ater | N | 07/15/2021 | 11:13 | FS |
| CAP0721-PZ-35-071521 | 320-76384-4 | Groundw ater | N | 07/15/2021 | 13:29 | FS |
| CAP0721-SMW-08B-071521 | 320-76384-5 | Groundw ater | N | 07/15/2021 | 15:25 | FS |
| CAP0721-SMW-07-071521 | 320-76384-6 | Groundw ater | N | 07/15/2021 | 10:10 | FS |
| CAP0721-MW-7S-071521 | 320-76385-1 | Groundw ater | N | 07/15/2021 | 13:05 | FS |
| CAP0721-MW-7S-071521-Z | 320-76385-2 | Groundw ater | Y | 07/15/2021 | 13:05 | FS |
| CAP0721-PW-03-071521 | 320-76385-3 | Groundw ater | N | 07/15/2021 | 11:25 | FS |
| CAP0721-PW-03-071521-Z | 320-76385-4 | Groundw ater | Y | 07/15/2021 | 11:25 | FS |
| CAP0721-PZ-12-071521 | 320-76385-5 | Groundw ater | N | 07/15/2021 | 11:50 | FS |
| CAP0721-PZ-12-071521-Z | 320-76385-6 | Groundw ater | Y | 07/15/2021 | 11:50 | FS |
| CAP0721-MW-12S-071521 | 320-76392-1 | Groundw ater | N | 07/15/2021 | 14:30 | FS |
| CAP0721-EQBLK-DV-071421 | 320-76392-2 | Blank Water | N | 07/14/2021 | 16:10 | EB |
| CAP0721-EQBLK-PP-071421 | 320-76392-3 | Blank Water | N | 07/14/2021 | 16:00 | EB |
| CAP0721-EQBLK-PP-071421-Z | 320-76392-4 | Blank Water | Y | 07/14/2021 | 16:05 | EB |
| CAP0721-PIW-7D-071621 | 320-76574-1 | Groundw ater | N | 07/16/2021 | 13:10 | FS |
| CAP0721-PIW-7S-071621 | 320-76574-2 | Groundw ater | N | 07/16/2021 | 13:53 | FS |
| CAP0721-MW-20D-071621 | 320-76574-3 | Groundw ater | N | 07/16/2021 | 10:50 | FS |
| CAP0721-PW-02-071921 | 320-76574-4 | Groundw ater | N | 07/19/2021 | 11:50 | FS |
| CAP0721-PZ-27-071921 | 320-76574-5 | Groundw ater | N | 07/19/2021 | 12:10 | FS |
| CAP0721-PZ-29-071921 | 320-76574-6 | Groundw ater | N | 07/19/2021 | 12:00 | FS |
| CAP0721-MW-17D-072021 | 320-76580-1 | Groundw ater | N | 07/20/2021 | 15:40 | FS |
| CAP0721-MW-18D-072021 | 320-76580-2 | Groundw ater | N | 07/20/2021 | 11:05 | FS |
| CAP0721-MW-19D-072021 | 320-76580-3 | Groundw ater | N | 07/20/2021 | 12:05 | FS |
| CAP0721-SMW-04B-072021 | 320-76580-4 | Groundw ater | N | 07/20/2021 | 15:05 | FS |
| CAP0721-SMW-02-072021 | 320-76580-5 | Groundw ater | N | 07/20/2021 | 12:15 | FS |
| CAP0721-PIW-9S-072021 | 320-76580-6 | Groundw ater | N | 07/20/2021 | 15:40 | FS |
| CAP0721-PW-01-071621 | 320-76583-1 | Groundw ater | N | 07/16/2021 | 11:25 | FS |
| CAP0721-PZ-11-071621 | 320-76583-2 | Groundw ater | N | 07/16/2021 | 11:43 | FS |
| CAP0721-PZ-11-071621-D | 320-76583-3 | Groundw ater | N | 07/16/2021 | 11:43 | DUP |
| CAP0721-PIW-1D-071621 | 320-76583-4 | Groundw ater | N | 07/16/2021 | 14:00 | FS |
| CAP0721-PZ-31-071921 | 320-76585-1 | Groundw ater | N | 07/19/2021 | 13:05 | FS |
| CAP0721-PZ-32-071921 | 320-76585-2 | Groundw ater | N | 07/19/2021 | 13:00 | FS |
| CAP0721-EQBLK-PP-071921 | 320-76585-3 | Blank Water | N | 07/19/2021 | 17:05 | EB |
| CAP0721-EQBLK-DV-071921 | 320-76585-4 | Blank Water | N | 07/19/2021 | 17:00 | EB |
| CAP0721-PIW-2D-072021 | 320-76585-5 | Groundw ater | N | 07/20/2021 | 18:41 | FS |
| CAP0721-SMW-03B-072021 | 320-76585-6 | Groundw ater | N | 07/20/2021 | 16:15 | FS |
| CAP0721-FTA-02-072221 | 320-76694-1 | Groundw ater | N | 07/22/2021 | 11:35 | FS |
| CAP0721-MW-35-072221 | 320-76694-2 | Groundw ater | N | 07/22/2021 | 11:10 | FS |
| CAP0721-MW-35-072221-D | 320-76694-3 | Groundw ater | N | 07/22/2021 | 11:10 | DUP |
| CAP0721-MW-31-072221 | 320-76694-4 | Groundw ater | N | 07/22/2021 | 12:55 | FS |
| CAP0721-MW-34-072221 | 320-76695-1 | Groundw ater | N | 07/22/2021 | 12:10 | FS |
| CAP0721-PIW-8D-072221 | 320-76695-2 | Groundw ater | N | 07/22/2021 | 15:20 | FS |
| CAP0721-PIW-11-072221 | 320-76695-3 | Groundw ater | N | 07/22/2021 | 11:05 | FS |
| CAP0721-PIW-12-072221 | 320-76695-4 | Groundw ater | N | 07/22/2021 | 14:25 | FS |
| CAP0721-PIW-13-072221 | 320-76695-5 | Groundw ater | N | 07/22/2021 | 16:10 | FS |
| CAP0721-PW-13-072221 | 320-76695-6 | Groundw ater | N | 07/22/2021 | 14:30 | FS |
| CAP0721-PZ-34-072221 | 320-76696-1 | Groundw ater | N | 07/22/2021 | 12:30 | FS |
| CAP0721-PW-04-072221 | 320-76696-2 | Groundw ater | N | 07/22/2021 | 16:25 | FS |
| CAP0721-EQBLK-DV-072221 | 320-76696-3 | Blank Water | N | 07/22/2021 | 10:00 | EB |
| CAP0721-EQBLK-PP-072221 | 320-76696-4 | Blank Water | N | 07/22/2021 | 10:05 | EB |
| CAP0721-EQBLK-PP-072221-Z | 320-76696-5 | Blank Water | N | 07/22/2021 | 10:10 | EB |
| CAP0721-MW-32-072121 | 320-76701-1 | Groundw ater | N | 07/21/2021 | 15:30 | FS |

| Field Sample ID | Lab Sample ID | Sample Matrix | Filtered | Sample Date | Sample Time | Sample Purpose |
|---|---|---|---|---|---|---|
| CAP0721-MW-33-072121 | 320-76701-2 | Groundw ater | N | 07/21/2021 | 14:30 | FS |
| CAP0721-PZ-33-072121 | 320-76701-3 | Groundw ater | N | 07/21/2021 | 14:35 | FS |
| CAP0721-PW-07-072121 | 320-76701-4 | Groundw ater | N | 07/21/2021 | 16:45 | FS |
| CAP0721-MW-36-072121 | 320-76701-5 | Groundw ater | N | 07/21/2021 | 16:05 | FS |
| CAP0721-MW-36-072121-Z | 320-76701-6 | Groundw ater | Y | 07/21/2021 | 16:05 | FS |
| CAP0721-PIW-6S-072621 | 320-77001-1 | Groundw ater | N | 07/26/2021 | 12:35 | FS |
| CAP0721-LTW-03-072621 | 320-77001-2 | Groundw ater | N | 07/26/2021 | 11:50 | FS |
| CAP0721-FTA-01-072821 | 320-77001-3 | Groundw ater | N | 07/28/2021 | 14:00 | FS |
| CAP0721-FTA-03-072821 | 320-77001-4 | Groundw ater | N | 07/28/2021 | 14:30 | FS |
| CAP0721-MW-01S-072821 | 320-77001-5 | Groundw ater | N | 07/28/2021 | 16:25 | FS |
| CAP0721-EQBLK-DV-072821 | 320-77001-6 | Blank Water | N | 07/28/2021 | 10:00 | EB |
| CAP0721-EQBLK-PP-072821-2 | 320-77001-7 | Blank Water | N | 07/28/2021 | 10:05 | EB |
| CAP0721-PW-11-072321 | 320-77006-1 | Groundw ater | N | 07/23/2021 | 11:35 | FS |
| CAP0721-PIW-9D-072321 | 320-77006-2 | Groundw ater | N | 07/23/2021 | 11:20 | FS |
| CAP0721-PIW-4D-072321 | 320-77006-3 | Groundw ater | N | 07/23/2021 | 11:50 | FS |
| CAP0721-PIW-3D-072321 | 320-77006-4 | Groundw ater | N | 07/23/2021 | 12:52 | FS |
| CAP0721-PIW-15-072321 | 320-77006-5 | Groundw ater | N | 07/23/2021 | 12:40 | FS |
| CAP0721-PW-05-072321 | 320-77006-6 | Groundw ater | N | 07/23/2021 | 10:20 | FS |
| CAP0721-PZ-22-072321 | 320-77006-7 | Groundw ater | N | 07/23/2021 | 11:25 | FS |
| CAP0721-LTW-02-072921 | 320-77151-1 | Groundw ater | N | 07/29/2021 | 13:35 | FS |
| CAP0721-LTW-02-072921-D | 320-77151-2 | Groundw ater | N | 07/29/2021 | 13:35 | DUP |
| CAP0721-LTW-04-073021 | 320-77151-3 | Groundw ater | N | 07/30/2021 | 13:50 | FS |
| CAP0721-LTW-04-073021-D | 320-77151-4 | Groundw ater | N | 07/30/2021 | 13:50 | DUP |
| CAP0721-SMW-10-073021 | 320-77151-5 | Groundw ater | N | 07/30/2021 | 16:45 | FS |
| CAP0721-PW-14-072921 | 320-77159-1 | Groundw ater | N | 07/29/2021 | 10:10 | FS |
| CAP0721-PW-10R-072921 | 320-77159-2 | Groundw ater | N | 07/29/2021 | 10:45 | FS |
| CAP0721-PIW-16D-072921 | 320-77159-3 | Groundw ater | N | 07/29/2021 | 15:50 | FS |
| CAP0721-PIW-16S-072921 | 320-77159-4 | Groundw ater | N | 07/29/2021 | 13:55 | FS |
| CAP0721-PIW-5S-072921 | 320-77159-5 | Groundw ater | N | 07/29/2021 | 10:10 | FS |
| CAP0721-PIW-10S-073021 | 320-77159-6 | Groundw ater | N | 07/30/2021 | 14:45 | FS |
| CAP0721-SMW-01-073021 | 320-77159-7 | Groundw ater | N | 07/30/2021 | 16:20 | FS |
| CAP0721-PIW-10DR-072921 | 320-77159-8 | Groundw ater | N | 07/29/2021 | 09:25 | FS |
| CAP0721-NAF-08B-073021 | 320-77164-1 | Groundw ater | N | 07/30/2021 | 08:15 | FS |
| CAP0721-NAF-08B-073021-Z | 320-77164-2 | Groundw ater | Y | 07/30/2021 | 08:15 | FS |
| CAP0721-MW-14D-073021 | 320-77164-3 | Groundw ater | N | 07/30/2021 | 10:10 | FS |
| CAP0721-MW-15DRR-073021 | 320-77164-4 | Groundw ater | N | 07/30/2021 | 13:25 | FS |
| CAP0721-PW-15R-073021 | 320-77164-5 | Groundw ater | N | 07/30/2021 | 12:35 | FS |
| CAP0721-PIW-14-073021 | 320-77164-6 | Groundw ater | N | 07/30/2021 | 12:15 | FS |
| CAP0721-PW-06-073021 | 320-77164-7 | Groundw ater | N | 07/30/2021 | 17:20 | FS |
| CAP0721-BCA-02-073021 | 320-77164-8 | Groundw ater | N | 07/30/2021 | 12:25 | FS |
| CAP0721-MW-22D-073021 | 320-77178-1 | Groundw ater | N | 07/30/2021 | 11:52 | FS |
| CAP0721-LTW-05-073021 | 320-77178-2 | Groundw ater | N | 07/30/2021 | 15:10 | FS |
| CAP0721-EQBLK-PP-073021 | 320-77178-3 | Blank Water | N | 07/30/2021 | 09:00 | EB |
| CAP0721-EQBLK-PP-073021-Z | 320-77178-4 | Blank Water | Y | 07/30/2021 | 09:05 | EB |
| CAP0721-EQBLK-DV-073021 | 320-77178-5 | Blank Water | N | 07/30/2021 | 09:10 | EB |
| CAP0721-BCA-01-072921 | 320-77180-1 | Groundw ater | N | 07/29/2021 | 11:00 | FS |
| CAP0721-MW-24-072921 | 320-77180-2 | Groundw ater | N | 07/29/2021 | 11:27 | FS |
| CAP0721-NAF-03-072921 | 320-77180-3 | Groundw ater | N | 07/29/2021 | 10:17 | FS |
| CAP0721-NAF-12-072921 | 320-77180-4 | Groundw ater | N | 07/29/2021 | 08:48 | FS |
| CAP0721-BCA-04-072921 | 320-77180-5 | Groundw ater | N | 07/29/2021 | 12:35 | FS |
| CAP0721-EQBLK-DV-072921 | 320-77180-6 | Blank Water | N | 07/29/2021 | 17:05 | EB |
| CAP0721-EQBLK-PP-072921 | 320-77180-7 | Blank Water | N | 07/29/2021 | 17:00 | EB |
| CAP0721-LTW-01-072921 | 320-77180-8 | Groundw ater | N | 07/29/2021 | 14:45 | 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 TestAmerica, Sacramento | 537 Modified | Per- and Polyfluorinated Alkyl Substances (PFAS) | CAP MW Sampling 07/21 |
| Eurofins TestAmerica, Sacramento | Cl. Spec. Table 3 Compound SOP | Per- and Polyfluorinated Alkyl Substances (PFAS) | CAP MW Sampling 07/21 |

# 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 | | | | | |

| ER# | Description |
|---|---|
| | |
| | |

**Other QA/QC Items to Note:**

* See DVM Narrative Report, Lab Report, and/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:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** Contamination detected in equipment blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated equipment blank(s).

| Field Sample ID | Date Sampled | Lab Sample ID | Analyte | Result | Units | Type | MDL | PQL | Validation Qualifier | Analytical Method | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-MW-17D-072021 | 07/20/2021 | 320-76580-1 | PMPA | 2.3 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-18D-072021 | 07/20/2021 | 320-76580-2 | PMPA | 1.2 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-19D-072021 | 07/20/2021 | 320-76580-3 | PMPA | 1.7 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-32-072121 | 07/21/2021 | 320-76701-1 | PMPA | 1.1 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-31-072221 | 07/22/2021 | 320-76694-4 | PMPA | 1.0 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-33-072121 | 07/21/2021 | 320-76701-2 | PMPA | 0.76 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-36-072121 | 07/21/2021 | 320-76701-5 | PMPA | 1.4 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-36-072121-Z | 07/21/2021 | 320-76701-6 | PMPA | 1.5 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-35-072221 | 07/22/2021 | 320-76694-2 | PMPA | 1.1 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-04-072221 | 07/22/2021 | 320-76696-2 | PMPA | 1.0 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-04-072221 | 07/22/2021 | 320-76696-2 | PMPA | 0.76 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-05-072321 | 07/23/2021 | 320-77006-6 | PMPA | 1.6 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-07-072121 | 07/21/2021 | 320-76701-4 | PMPA | 1.1 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-2D-072021 | 07/20/2021 | 320-76585-5 | PMPA | 1.6 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-35-072221-D | 07/22/2021 | 320-76694-3 | PMPA | 1.3 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-33-072121 | 07/21/2021 | 320-76701-3 | PMPA | 0.96 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** Contamination detected in Method Blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated method blank(s).

| Field Sample ID | Date Sampled | Lab Sample ID | Analyte | Result | Units | Type | MDL | PQL | Validation Qualifier | Analytical Method | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-MW-34-072221 | 07/22/2021 | 320-76695-1 | PMPA | 2.2 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-11-072221 | 07/22/2021 | 320-76695-3 | PMPA | 1.5 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-13-072221 | 07/22/2021 | 320-76695-5 | PMPA | 2.3 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-8D-072221 | 07/22/2021 | 320-76695-2 | PMPA | 16 | UG/L | PQL | | 6.2 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-34-072221 | 07/22/2021 | 320-76696-1 | PMPA | 1.9 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-12-072221 | 07/22/2021 | 320-76695-4 | PMPA | 1.2 | UG/L | PQL | | 0.62 | B | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-SMW-10-073021 | 07/30/2021 | 320-77151-5 | PES | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-10-073021 | 07/30/2021 | 320-77151-5 | PMPA | 0.010 | UG/L | PQL | | 0.010 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-10-073021 | 07/30/2021 | 320-77151-5 | PFECA B | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-10-073021 | 07/30/2021 | 320-77151-5 | R-PSDA | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-10-073021 | 07/30/2021 | 320-77151-5 | Hydrolyzed PSDA | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-10-073021 | 07/30/2021 | 320-77151-5 | R-PSDCA | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-10-073021 | 07/30/2021 | 320-77151-5 | R-EVE | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-10-073021 | 07/30/2021 | 320-77151-5 | PEPA | 0.020 | UG/L | PQL | | 0.020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-10-073021 | 07/30/2021 | 320-77151-5 | PS Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-10-073021 | 07/30/2021 | 320-77151-5 | PFO3OA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-10-073021 | 07/30/2021 | 320-77151-5 | PFO4DA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-10-073021 | 07/30/2021 | 320-77151-5 | PFO5DA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-10-073021 | 07/30/2021 | 320-77151-5 | EVE Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-10-073021 | 07/30/2021 | 320-77151-5 | Hydro-PS Acid | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-10-073021 | 07/30/2021 | 320-77151-5 | Hydro-EVE Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-10-073021 | 07/30/2021 | 320-77151-5 | NVHOS, Acid Form | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-10-073021 | 07/30/2021 | 320-77151-5 | PFECA-G | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-CUMBERLAND-2D-071221 | 07/12/2021 | 320-76211-1 | PFMOAA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CUMBERLAND-2D-071221 | 07/12/2021 | 320-76211-1 | PFMOAA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

| Field Sample ID | Date Sampled | Lab Sample ID | Analyte | Result | Units | Type | MDL | PQL | Validation Qualifier | Analytical Method | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-LTW-02-072921 | 07/29/2021 | 320-77151-1 | R-PSDA | 0.33 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LTW-02-072921 | 07/29/2021 | 320-77151-1 | R-PSDA | 0.29 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LTW-02-072921 | 07/29/2021 | 320-77151-1 | R-EVE | 0.28 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LTW-02-072921 | 07/29/2021 | 320-77151-1 | R-EVE | 0.29 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-35-072221 | 07/22/2021 | 320-76694-2 | PEPA | 0.37 | UG/L | PQL | | 0.020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-35-072221 | 07/22/2021 | 320-76694-2 | PFO2HxA | 0.079 | ug/L | PQL | | 0.027 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-12-070721-D | 07/07/2021 | 320-76201-2 | PEPA | 0.35 | UG/L | PQL | | 0.020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-35-072221-D | 07/22/2021 | 320-76694-3 | Hfpo Dimer Acid | 0.18 | UG/L | PQL | | 0.081 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-35-072221-D | 07/22/2021 | 320-76694-3 | PEPA | 0.23 | UG/L | PQL | | 0.020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** Quality review criteria exceeded between the REP (laboratory replicate) and parent sample. The reported result may be imprecise.

| Field Sample ID | Date Sampled | Lab Sample ID | Analyte | Result | Units | Type | MDL | PQL | Validation Qualifier | Analytical Method | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-MW-16D-071421 | 07/14/2021 | 320-76321-3 | Hydro-PS Acid | 0.044 | ug/L | PQL | | 0.0061 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-16D-071421 | 07/14/2021 | 320-76321-3 | Hydro-PS Acid | 0.044 | ug/L | PQL | | 0.0061 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-22D-073021 | 07/30/2021 | 320-77178-1 | PEPA | 0.19 | UG/L | PQL | | 0.020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-22D-073021 | 07/30/2021 | 320-77178-1 | PEPA | 0.22 | UG/L | PQL | | 0.020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-22D-073021 | 07/30/2021 | 320-77178-1 | PFO2HxA | 0.31 | ug/L | PQL | | 0.027 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-22D-073021 | 07/30/2021 | 320-77178-1 | PFO2HxA | 0.37 | ug/L | PQL | | 0.027 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-CUMBERLAND-4S-071221 | 07/12/2021 | 320-76207-3 | R-PSDA | 0.021 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CUMBERLAND-4S-071221 | 07/12/2021 | 320-76207-3 | R-EVE | 0.0053 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-FTA-02-072221 | 07/22/2021 | 320-76694-1 | R-PSDA | 1.7 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-FTA-02-072221 | 07/22/2021 | 320-76694-1 | R-PSDA | 1.7 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-FTA-02-072221 | 07/22/2021 | 320-76694-1 | Hydrolyzed PSDA | 4.4 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-FTA-02-072221 | 07/22/2021 | 320-76694-1 | Hydrolyzed PSDA | 4.3 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-FTA-02-072221 | 07/22/2021 | 320-76694-1 | R-EVE | 1.5 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-FTA-02-072221 | 07/22/2021 | 320-76694-1 | R-EVE | 1.4 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-FTA-03-072821 | 07/28/2021 | 320-77001-4 | R-PSDA | 0.57 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-FTA-03-072821 | 07/28/2021 | 320-77001-4 | Hydrolyzed PSDA | 0.32 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-FTA-03-072821 | 07/28/2021 | 320-77001-4 | R-EVE | 0.78 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LTW-01-072921 | 07/29/2021 | 320-77180-8 | R-PSDA | 0.82 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LTW-01-072921 | 07/29/2021 | 320-77180-8 | Hydrolyzed PSDA | 0.52 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LTW-01-072921 | 07/29/2021 | 320-77180-8 | R-EVE | 0.55 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LTW-02-072921 | 07/29/2021 | 320-77151-1 | Hydrolyzed PSDA | 0.91 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LTW-02-072921 | 07/29/2021 | 320-77151-1 | Hydrolyzed PSDA | 0.96 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-LTW-02-072921-D | 07/29/2021 | 320-77151-2 | Hydrolyzed PSDA | 1.1 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LTW-03-072621 | 07/26/2021 | 320-77001-2 | R-PSDA | 0.53 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LTW-03-072621 | 07/26/2021 | 320-77001-2 | Hydrolyzed PSDA | 3.8 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LTW-03-072621 | 07/26/2021 | 320-77001-2 | R-EVE | 0.40 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LTW-04-073021 | 07/30/2021 | 320-77151-3 | R-PSDA | 1.3 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LTW-04-073021 | 07/30/2021 | 320-77151-3 | Hydrolyzed PSDA | 3.6 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LTW-04-073021 | 07/30/2021 | 320-77151-3 | R-EVE | 1.5 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LTW-04-073021-D | 07/30/2021 | 320-77151-4 | R-PSDA | 1.7 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LTW-04-073021-D | 07/30/2021 | 320-77151-4 | Hydrolyzed PSDA | 4.2 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LTW-04-073021-D | 07/30/2021 | 320-77151-4 | R-EVE | 1.8 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LTW-05-073021 | 07/30/2021 | 320-77178-2 | R-PSDA | 0.15 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LTW-05-073021 | 07/30/2021 | 320-77178-2 | Hydrolyzed PSDA | 0.45 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LTW-05-073021 | 07/30/2021 | 320-77178-2 | R-EVE | 0.17 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-01S-072821 | 07/28/2021 | 320-77001-5 | R-PSDA | 0.46 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-01S-072821 | 07/28/2021 | 320-77001-5 | Hydrolyzed PSDA | 0.39 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-01S-072821 | 07/28/2021 | 320-77001-5 | R-EVE | 0.37 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-12S-071521 | 07/15/2021 | 320-76392-1 | R-PSDA | 0.57 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 SOP | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-MW-12S-071521 | 07/15/2021 | 320-76392-1 | Hydrolyzed PSDA | 0.22 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-12S-071521 | 07/15/2021 | 320-76392-1 | R-EVE | 0.41 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-13D-071421 | 07/14/2021 | 320-76320-5 | R-PSDA | 2.1 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-13D-071421 | 07/14/2021 | 320-76320-5 | Hydrolyzed PSDA | 2.8 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-13D-071421 | 07/14/2021 | 320-76320-5 | R-EVE | 2.4 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-14D-073021 | 07/30/2021 | 320-77164-3 | Hydrolyzed PSDA | 8.8 | UG/L | PQL | | 1.9 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-15DRR-073021 | 07/30/2021 | 320-77164-4 | R-PSDA | 0.21 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-15DRR-073021 | 07/30/2021 | 320-77164-4 | Hydrolyzed PSDA | 12 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-16D-071421 | 07/14/2021 | 320-76321-3 | Hydrolyzed PSDA | 0.50 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-16D-071421 | 07/14/2021 | 320-76321-3 | Hydrolyzed PSDA | 0.49 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-33-072121 | 07/21/2021 | 320-76701-2 | Hydrolyzed PSDA | 0.34 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-31-072221 | 07/22/2021 | 320-76694-4 | Hydrolyzed PSDA | 0.21 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-31-072221 | 07/22/2021 | 320-76694-4 | R-EVE | 0.074 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-32-072121 | 07/21/2021 | 320-76701-1 | R-PSDA | 0.25 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-32-072121 | 07/21/2021 | 320-76701-1 | Hydrolyzed PSDA | 0.66 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-32-072121 | 07/21/2021 | 320-76701-1 | R-EVE | 0.080 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0621-NAF-11A-071221 | 07/12/2021 | 320-76211-2 | R-PSDA | 4.2 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0621-NAF-11A-071221 | 07/12/2021 | 320-76211-2 | R-EVE | 1.5 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0621-NAF-11A-071221-D | 07/12/2021 | 320-76211-3 | R-PSDA | 4.1 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0621-NAF-11A-071221-D | 07/12/2021 | 320-76211-3 | R-EVE | 1.5 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0621-SMW-11-070921 | 07/09/2021 | 320-76176-6 | R-PSDA | 0.13 | UG/L | PQL | | 0.0035 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0621-SMW-11-070921 | 07/09/2021 | 320-76176-6 | R-EVE | 0.11 | UG/L | PQL | | 0.0036 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-BCA-01-072921 | 07/29/2021 | 320-77180-1 | R-PSDA | 0.72 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-BCA-01-072921 | 07/29/2021 | 320-77180-1 | Hydrolyzed PSDA | 4.5 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-BCA-01-072921 | 07/29/2021 | 320-77180-1 | R-EVE | 0.42 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-BCA-02-073021 | 07/30/2021 | 320-77164-8 | R-PSDA | 0.14 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-BCA-02-073021 | 07/30/2021 | 320-77164-8 | Hydrolyzed PSDA | 0.94 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-BCA-02-073021 | 07/30/2021 | 320-77164-8 | R-EVE | 0.12 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-BCA-03R-071421 | 07/14/2021 | 320-76320-3 | R-PSDA | 2.7 | UG/L | PQL | | 0.71 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-BCA-03R-071421 | 07/14/2021 | 320-76320-3 | Hydrolyzed PSDA | 34 | UG/L | PQL | | 0.38 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-20D-071621 | 07/16/2021 | 320-76574-3 | Hydrolyzed PSDA | 0.14 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-23-071321 | 07/13/2021 | 320-76340-1 | R-PSDA | 0.45 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-23-071321 | 07/13/2021 | 320-76340-1 | R-EVE | 0.27 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 SOP | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-MW-24-072921 | 07/29/2021 | 320-77180-2 | R-PSDA | 5.0 | UG/L | PQL | | 0.71 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-24-072921 | 07/29/2021 | 320-77180-2 | Hydrolyzed PSDA | 42 | UG/L | PQL | | 0.38 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-24-072921 | 07/29/2021 | 320-77180-2 | R-EVE | 2.6 | UG/L | PQL | | 0.72 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-25-070921 | 07/09/2021 | 320-76219-1 | R-PSDA | 1.6 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-25-070921 | 07/09/2021 | 320-76219-1 | Hydrolyzed PSDA | 0.14 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-25-070921 | 07/09/2021 | 320-76219-1 | R-EVE | 1.5 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-27-071421 | 07/14/2021 | 320-76320-1 | R-PSDA | 0.86 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-27-071421 | 07/14/2021 | 320-76320-1 | Hydrolyzed PSDA | 4.0 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-27-071421 | 07/14/2021 | 320-76320-1 | R-EVE | 0.32 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-30-070921 | 07/09/2021 | 320-76219-2 | R-PSDA | 0.84 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-30-070921 | 07/09/2021 | 320-76219-2 | R-EVE | 0.46 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-8D-072221 | 07/22/2021 | 320-76695-2 | R-PSDA | 2.3 | UG/L | PQL | | 0.71 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-8D-072221 | 07/22/2021 | 320-76695-2 | Hydrolyzed PSDA | 5.1 | UG/L | PQL | | 0.38 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-8D-072221 | 07/22/2021 | 320-76695-2 | R-EVE | 3.8 | UG/L | PQL | | 0.72 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-9D-072321 | 07/23/2021 | 320-77006-2 | R-PSDA | 6.1 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-9D-072321 | 07/23/2021 | 320-77006-2 | Hydrolyzed PSDA | 13 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-PIW-9D-072321 | 07/23/2021 | 320-77006-2 | R-EVE | 4.1 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-9S-072021 | 07/20/2021 | 320-76580-6 | R-PSDA | 0.58 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-9S-072021 | 07/20/2021 | 320-76580-6 | Hydrolyzed PSDA | 0.088 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-9S-072021 | 07/20/2021 | 320-76580-6 | R-EVE | 0.38 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-01-071621 | 07/16/2021 | 320-76583-1 | R-PSDA | 0.54 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-01-071621 | 07/16/2021 | 320-76583-1 | R-PSDA | 0.52 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-01-071621 | 07/16/2021 | 320-76583-1 | Hydrolyzed PSDA | 2.4 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-01-071621 | 07/16/2021 | 320-76583-1 | Hydrolyzed PSDA | 2.2 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-01-071621 | 07/16/2021 | 320-76583-1 | R-EVE | 0.32 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-01-071621 | 07/16/2021 | 320-76583-1 | R-EVE | 0.32 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-02-071921 | 07/19/2021 | 320-76574-4 | R-PSDA | 0.44 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-02-071921 | 07/19/2021 | 320-76574-4 | Hydrolyzed PSDA | 1.8 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-02-071921 | 07/19/2021 | 320-76574-4 | R-EVE | 0.27 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-03-071521 | 07/15/2021 | 320-76385-3 | R-PSDA | 13 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-03-071521 | 07/15/2021 | 320-76385-3 | Hydrolyzed PSDA | 67 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-03-071521 | 07/15/2021 | 320-76385-3 | R-EVE | 14 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-03-071521-Z | 07/15/2021 | 320-76385-4 | R-PSDA | 11 | UG/L | PQL | | 0.14 | J | Cl. Spec. Table 3 Compound | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 SOP | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-PW-03-071521-Z | 07/15/2021 | 320-76385-4 | Hydrolyzed PSDA | 56 | UG/L | PQL | | 0.076 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-03-071521-Z | 07/15/2021 | 320-76385-4 | R-EVE | 12 | UG/L | PQL | | 0.14 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-13-072221 | 07/22/2021 | 320-76695-5 | R-PSDA | 0.16 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-13-072221 | 07/22/2021 | 320-76695-5 | R-EVE | 0.12 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-14-073021 | 07/30/2021 | 320-77164-6 | R-PSDA | 0.13 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-14-073021 | 07/30/2021 | 320-77164-6 | R-EVE | 0.098 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-15-072321 | 07/23/2021 | 320-77006-5 | R-PSDA | 2.4 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-15-072321 | 07/23/2021 | 320-77006-5 | Hydrolyzed PSDA | 0.10 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-15-072321 | 07/23/2021 | 320-77006-5 | R-EVE | 1.0 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-1D-071621 | 07/16/2021 | 320-76583-4 | R-PSDA | 0.26 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-1D-071621 | 07/16/2021 | 320-76583-4 | R-EVE | 0.22 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-1S-071421 | 07/14/2021 | 320-76320-4 | R-PSDA | 0.62 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-1S-071421 | 07/14/2021 | 320-76320-4 | R-EVE | 0.63 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-11-072221 | 07/22/2021 | 320-76695-3 | R-PSDA | 0.32 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-11-072221 | 07/22/2021 | 320-76695-3 | Hydrolyzed PSDA | 5.4 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-11-072221 | 07/22/2021 | 320-76695-3 | R-EVE | 0.17 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-MW-7S-071521 | 07/15/2021 | 320-76385-1 | R-PSDA | 1.7 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-7S-071521 | 07/15/2021 | 320-76385-1 | Hydrolyzed PSDA | 0.38 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-7S-071521 | 07/15/2021 | 320-76385-1 | R-EVE | 1.3 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-7S-071521-Z | 07/15/2021 | 320-76385-2 | R-PSDA | 1.6 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-7S-071521-Z | 07/15/2021 | 320-76385-2 | Hydrolyzed PSDA | 0.45 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-7S-071521-Z | 07/15/2021 | 320-76385-2 | R-EVE | 1.4 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-9S-070921 | 07/09/2021 | 320-76194-1 | R-PSDA | 0.33 | UG/L | PQL | | 0.0035 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-9S-070921 | 07/09/2021 | 320-76194-1 | Hydrolyzed PSDA | 0.029 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-MW-9S-070921 | 07/09/2021 | 320-76194-1 | R-EVE | 0.19 | UG/L | PQL | | 0.0036 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-01-070821 | 07/08/2021 | 320-76219-6 | R-PSDA | 2.1 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-01-070821 | 07/08/2021 | 320-76219-6 | Hydrolyzed PSDA | 0.86 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-01-070821 | 07/08/2021 | 320-76219-6 | R-EVE | 2.7 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-02-070821 | 07/08/2021 | 320-76219-5 | R-PSDA | 17 | UG/L | PQL | | 1.4 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-02-070821 | 07/08/2021 | 320-76219-5 | Hydrolyzed PSDA | 190 | UG/L | PQL | | 0.76 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-02-070821 | 07/08/2021 | 320-76219-5 | R-EVE | 10 | UG/L | PQL | | 1.4 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-03-072921 | 07/29/2021 | 320-77180-3 | R-PSDA | 7.2 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-03-072921 | 07/29/2021 | 320-77180-3 | Hydrolyzed PSDA | 88 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 SOP | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-NAF-03-072921 | 07/29/2021 | 320-77180-3 | R-EVE | 3.4 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-04-070721 | 07/07/2021 | 320-76205-1 | R-PSDA | 23 | UG/L | PQL | | 0.71 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-04-070721 | 07/07/2021 | 320-76205-1 | Hydrolyzed PSDA | 350 | UG/L | PQL | | 0.38 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-04-070721 | 07/07/2021 | 320-76205-1 | R-EVE | 5.5 | UG/L | PQL | | 0.72 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-06-071221 | 07/12/2021 | 320-76322-1 | R-PSDA | 7.6 | UG/L | PQL | | 0.71 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-06-071221 | 07/12/2021 | 320-76322-1 | Hydrolyzed PSDA | 79 | UG/L | PQL | | 0.38 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-06-071221 | 07/12/2021 | 320-76322-1 | R-EVE | 5.4 | UG/L | PQL | | 0.72 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-06-071221-Z | 07/12/2021 | 320-76322-2 | R-PSDA | 7.4 | UG/L | PQL | | 0.71 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-06-071221-Z | 07/12/2021 | 320-76322-2 | Hydrolyzed PSDA | 75 | UG/L | PQL | | 0.38 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-06-071221-Z | 07/12/2021 | 320-76322-2 | R-EVE | 5.3 | UG/L | PQL | | 0.72 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-07-070721 | 07/07/2021 | 320-76205-2 | R-PSDA | 2.6 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-07-070721 | 07/07/2021 | 320-76205-2 | Hydrolyzed PSDA | 1.9 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-07-070721 | 07/07/2021 | 320-76205-2 | R-EVE | 1.3 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-08A-070721 | 07/07/2021 | 320-76205-3 | R-PSDA | 2.3 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-08A-070721 | 07/07/2021 | 320-76205-3 | Hydrolyzed PSDA | 8.5 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-08A-070721 | 07/07/2021 | 320-76205-3 | R-EVE | 1.7 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-NAF-08B-073021 | 07/30/2021 | 320-77164-1 | R-PSDA | 0.13 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-08B-073021 | 07/30/2021 | 320-77164-1 | Hydrolyzed PSDA | 0.92 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-08B-073021-Z | 07/30/2021 | 320-77164-2 | Hydrolyzed PSDA | 0.97 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-09-070921 | 07/09/2021 | 320-76219-3 | R-PSDA | 0.97 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-09-070921 | 07/09/2021 | 320-76219-3 | Hydrolyzed PSDA | 1.0 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-09-070921 | 07/09/2021 | 320-76219-3 | R-EVE | 0.58 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-10-070921 | 07/09/2021 | 320-76219-4 | R-PSDA | 3.9 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-10-070921 | 07/09/2021 | 320-76219-4 | Hydrolyzed PSDA | 0.41 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-10-070921 | 07/09/2021 | 320-76219-4 | R-EVE | 2.6 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-12-072921 | 07/29/2021 | 320-77180-4 | R-PSDA | 53 | UG/L | PQL | | 1.4 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-12-072921 | 07/29/2021 | 320-77180-4 | Hydrolyzed PSDA | 270 | UG/L | PQL | | 0.76 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-NAF-12-072921 | 07/29/2021 | 320-77180-4 | R-EVE | 34 | UG/L | PQL | | 1.4 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-10DR-072921 | 07/29/2021 | 320-77159-8 | R-PSDA | 1.1 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-10DR-072921 | 07/29/2021 | 320-77159-8 | Hydrolyzed PSDA | 4.5 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-10DR-072921 | 07/29/2021 | 320-77159-8 | R-EVE | 0.97 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-33-072121 | 07/21/2021 | 320-76701-3 | Hydrolyzed PSDA | 0.23 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-12-072221 | 07/22/2021 | 320-76695-4 | R-PSDA | 0.088 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 SOP | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-PIW-12-072221 | 07/22/2021 | 320-76695-4 | R-EVE | 0.11 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-3D-072321 | 07/23/2021 | 320-77006-4 | R-PSDA | 1.6 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-3D-072321 | 07/23/2021 | 320-77006-4 | R-EVE | 0.63 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-5S-072921 | 07/29/2021 | 320-77159-5 | R-PSDA | 3.1 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-5S-072921 | 07/29/2021 | 320-77159-5 | Hydrolyzed PSDA | 6.0 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-5S-072921 | 07/29/2021 | 320-77159-5 | R-EVE | 2.3 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-6S-072621 | 07/26/2021 | 320-77001-1 | R-PSDA | 0.47 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-6S-072621 | 07/26/2021 | 320-77001-1 | Hydrolyzed PSDA | 2.8 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-6S-072621 | 07/26/2021 | 320-77001-1 | R-EVE | 0.42 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-7D-071621 | 07/16/2021 | 320-76574-1 | R-PSDA | 0.45 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-7D-071621 | 07/16/2021 | 320-76574-1 | Hydrolyzed PSDA | 0.83 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-7D-071621 | 07/16/2021 | 320-76574-1 | R-EVE | 0.60 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-7S-071621 | 07/16/2021 | 320-76574-2 | R-PSDA | 0.91 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-7S-071621 | 07/16/2021 | 320-76574-2 | Hydrolyzed PSDA | 0.075 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PIW-7S-071621 | 07/16/2021 | 320-76574-2 | R-EVE | 1.2 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-34-072221 | 07/22/2021 | 320-76696-1 | R-PSDA | 0.32 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-PZ-34-072221 | 07/22/2021 | 320-76696-1 | Hydrolyzed PSDA | 0.43 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-34-072221 | 07/22/2021 | 320-76696-1 | R-EVE | 0.15 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-35-071521 | 07/15/2021 | 320-76384-4 | R-PSDA | 0.68 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-35-071521 | 07/15/2021 | 320-76384-4 | Hydrolyzed PSDA | 0.29 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-35-071521 | 07/15/2021 | 320-76384-4 | R-EVE | 0.38 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-02-072021 | 07/20/2021 | 320-76580-5 | R-PSDA | 4.2 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-02-072021 | 07/20/2021 | 320-76580-5 | R-EVE | 2.6 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-03B-072021 | 07/20/2021 | 320-76585-6 | R-PSDA | 2.8 | UG/L | PQL | | 0.35 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-03B-072021 | 07/20/2021 | 320-76585-6 | Hydrolyzed PSDA | 43 | UG/L | PQL | | 0.19 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-04B-072021 | 07/20/2021 | 320-76580-4 | Hydrolyzed PSDA | 0.38 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-05P-071421 | 07/14/2021 | 320-76321-4 | Hydrolyzed PSDA | 4.5 | UG/L | PQL | | 0.38 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-06B-071421 | 07/14/2021 | 320-76321-1 | R-PSDA | 11 | UG/L | PQL | | 0.71 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-06B-071421 | 07/14/2021 | 320-76321-1 | Hydrolyzed PSDA | 150 | UG/L | PQL | | 0.38 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-06B-071421 | 07/14/2021 | 320-76321-1 | R-EVE | 2.1 | UG/L | PQL | | 0.72 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-06B-071421-D | 07/14/2021 | 320-76321-2 | R-PSDA | 11 | UG/L | PQL | | 0.71 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-06B-071421-D | 07/14/2021 | 320-76321-2 | Hydrolyzed PSDA | 140 | UG/L | PQL | | 0.38 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-06B-071421-D | 07/14/2021 | 320-76321-2 | R-EVE | 2.0 | UG/L | PQL | | 0.72 | J | Cl. Spec. Table 3 Compound | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 SOP | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-SMW-07-071521 | 07/15/2021 | 320-76384-6 | R-PSDA | 0.12 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-07-071521 | 07/15/2021 | 320-76384-6 | R-EVE | 0.11 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-08B-071521 | 07/15/2021 | 320-76384-5 | R-PSDA | 0.61 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-08B-071521 | 07/15/2021 | 320-76384-5 | Hydrolyzed PSDA | 3.2 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-08B-071521 | 07/15/2021 | 320-76384-5 | R-EVE | 0.29 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-09-070721 | 07/07/2021 | 320-76201-4 | R-PSDA | 1.6 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-09-070721 | 07/07/2021 | 320-76201-4 | Hydrolyzed PSDA | 30 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-10R-072921 | 07/29/2021 | 320-77159-2 | R-EVE | 0.084 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-11-072321 | 07/23/2021 | 320-77006-1 | R-PSDA | 4.6 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-11-072321 | 07/23/2021 | 320-77006-1 | Hydrolyzed PSDA | 10 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-11-072321 | 07/23/2021 | 320-77006-1 | R-EVE | 0.91 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-14-072921 | 07/29/2021 | 320-77159-1 | R-PSDA | 0.63 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-14-072921 | 07/29/2021 | 320-77159-1 | Hydrolyzed PSDA | 1.2 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-14-072921 | 07/29/2021 | 320-77159-1 | R-EVE | 0.65 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PW-15R-073021 | 07/30/2021 | 320-77164-5 | Hydrolyzed PSDA | 41 | UG/L | PQL | | 0.76 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-11-071621 | 07/16/2021 | 320-76583-2 | R-PSDA | 0.30 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-PZ-11-071621 | 07/16/2021 | 320-76583-2 | Hydrolyzed PSDA | 1.4 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-11-071621 | 07/16/2021 | 320-76583-2 | R-EVE | 0.18 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-11-071621-D | 07/16/2021 | 320-76583-3 | R-PSDA | 0.34 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-11-071621-D | 07/16/2021 | 320-76583-3 | Hydrolyzed PSDA | 1.6 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-11-071621-D | 07/16/2021 | 320-76583-3 | R-EVE | 0.20 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-12-071521 | 07/15/2021 | 320-76385-5 | R-PSDA | 0.48 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-12-071521 | 07/15/2021 | 320-76385-5 | Hydrolyzed PSDA | 6.2 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-12-071521 | 07/15/2021 | 320-76385-5 | R-EVE | 0.24 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-12-071521-Z | 07/15/2021 | 320-76385-6 | R-PSDA | 0.47 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-12-071521-Z | 07/15/2021 | 320-76385-6 | Hydrolyzed PSDA | 6.5 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-12-071521-Z | 07/15/2021 | 320-76385-6 | R-EVE | 0.23 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-13-070921 | 07/09/2021 | 320-76194-5 | R-PSDA | 0.036 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-13-070921 | 07/09/2021 | 320-76194-5 | Hydrolyzed PSDA | 0.0061 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-13-070921 | 07/09/2021 | 320-76194-5 | R-EVE | 0.025 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-14-070921 | 07/09/2021 | 320-76194-4 | R-PSDA | 0.017 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-14-070921 | 07/09/2021 | 320-76194-4 | R-EVE | 0.0086 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-15-070921 | 07/09/2021 | 320-76194-6 | R-PSDA | 0.0071 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 SOP | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-PZ-15-070921 | 07/09/2021 | 320-76194-6 | R-EVE | 0.0049 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-19R-071521 | 07/15/2021 | 320-76384-1 | R-PSDA | 0.98 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-19R-071521 | 07/15/2021 | 320-76384-1 | Hydrolyzed PSDA | 0.43 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-19R-071521 | 07/15/2021 | 320-76384-1 | R-EVE | 0.68 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-20R-071521 | 07/15/2021 | 320-76384-2 | R-PSDA | 0.38 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-20R-071521 | 07/15/2021 | 320-76384-2 | Hydrolyzed PSDA | 0.10 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-20R-071521 | 07/15/2021 | 320-76384-2 | R-EVE | 0.31 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-21R-071521 | 07/15/2021 | 320-76384-3 | R-PSDA | 0.21 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-21R-071521 | 07/15/2021 | 320-76384-3 | R-EVE | 0.12 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-22-072321 | 07/23/2021 | 320-77006-7 | R-PSDA | 0.29 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-22-072321 | 07/23/2021 | 320-77006-7 | Hydrolyzed PSDA | 0.60 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-22-072321 | 07/23/2021 | 320-77006-7 | R-EVE | 0.36 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-24-071321 | 07/13/2021 | 320-76322-4 | R-PSDA | 0.19 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-24-071321 | 07/13/2021 | 320-76322-4 | R-EVE | 0.14 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-27-071921 | 07/19/2021 | 320-76574-5 | Hydrolyzed PSDA | 0.13 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-29-071921 | 07/19/2021 | 320-76574-6 | Hydrolyzed PSDA | 0.39 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-PZ-31-071921 | 07/19/2021 | 320-76585-1 | R-PSDA | 0.30 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-31-071921 | 07/19/2021 | 320-76585-1 | Hydrolyzed PSDA | 0.28 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-PZ-31-071921 | 07/19/2021 | 320-76585-1 | R-EVE | 0.091 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-SMW-10-073021 | 07/30/2021 | 320-77151-5 | PFMOAA | 0.017 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-10-073021 | 07/30/2021 | 320-77151-5 | PFO2HxA | 0.0036 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SMW-10-073021 | 07/30/2021 | 320-77151-5 | Hfpo Dimer Acid | 0.0021 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP MW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-CUMBERLAND-5S-070721 | 07/07/2021 | 320-76201-3 | PFMOAA | 0.0023 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CUMBERLAND-5S-070721 | 07/07/2021 | 320-76201-3 | PFMOAA | 0.0021 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

# ADQM Data Review

**Site: Chemours Fayetteville**

**Project: CAP SW Sampling 7/21**

**Project Reviewer(s): Michael Aucoin**

# Program Sample List

| Field Sample ID | Lab Sample ID | Sample Matrix | Filtered | Sample Date | Sample Time | Sample Purpose |
|---|---|---|---|---|---|---|
| CAP0721-CFR-RM-76-072721 | 320-76991-1 | Surface Water | N | 07/27/2021 | 10:10 | FS |
| CAP0721-CFR-BLADEN-072721 | 320-76991-2 | Surface Water | N | 07/27/2021 | 16:50 | FS |
| CAP0721-GBC-1-072721 | 320-76991-3 | Surface Water | N | 07/27/2021 | 13:45 | FS |
| CAP0721-LOCK-DAM-SEEP-072721 | 320-76991-4 | Surface Water | N | 07/27/2021 | 13:25 | FS |
| CAP0721-CFR-TARHEEL-072821 | 320-76991-5 | Surface Water | N | 07/28/2021 | 08:50 | FS |
| CAP0721-OLDOF-1-24-072821 | 320-76991-6 | Surface Water | N | 07/28/2021 | 06:12 | FS |
| CAP0721-SEEP-B-EFF-24-072821 | 320-77002-1 | Other liquid | N | 07/28/2021 | 05:00 | FS |
| CAP0721-SEEP-C-EFF-24-072821 | 320-77002-2 | Other liquid | N | 07/28/2021 | 05:30 | FS |
| CAP0721-SEEP-D-EFF-24-072821 | 320-77002-3 | Other liquid | N | 07/28/2021 | 05:36 | FS |
| CAP0721-EQBLK-PP-072821 | 320-77002-4 | Blank Water | N | 07/28/2021 | 17:00 | EB |
| CAP0721-EQBLK-IS-072821 | 320-77002-5 | Blank Water | N | 07/28/2021 | 17:05 | EB |
| CAP0721-OUTFALL-002-24-072821 | 320-77020-1 | Surface Water | N | 07/28/2021 | 05:18 | FS |
| CAP0721-WC-1-20-072821 | 320-77020-2 | Surface Water | N | 07/28/2021 | 04:00 | FS |
| CAP0721-WC-1-20-072821-D | 320-77020-3 | Surface Water | N | 07/28/2021 | 04:00 | DUP |
| RIVER-WATER-INTAKE2-24-072821 | 320-77020-4 | Surface Water | N | 07/28/2021 | 04:06 | FS |
| CAP0721-CFR-TARHEEL-24-072821 | 320-77167-1 | Surface Water | N | 07/28/2021 | 17:42 | FS |
| CAP0721-SEEP-A-EFF-24-072921 | 320-77167-2 | Other liquid | N | 07/29/2021 | 14:24 | FS |
| CAP0721-CFR-KINGS-073021 | 320-77167-3 | Surface Water | N | 07/30/2021 | 11:10 | FS |

* FS=Field Sample
DUP=Field Duplicate
FB=Field Blank
EB=Equipment Blank
TB=Trip Blank

## Analytical Protocol

| Lab Name | Lab Method | Parameter Category | Sampling Program |
|---|---|---|---|
| Eurofins TestAmerica, Sacramento | 537 Modified | Per- and Polyfluorinated Alkyl Substances (PFAS) | CAP SW Sampling 7/21 |
| Eurofins TestAmerica, Sacramento | Cl. Spec. Table 3 Compound SOP | Per- and Polyfluorinated Alkyl Substances (PFAS) | CAP SW Sampling 7/21 |

# 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 | | | | |

| ER# | Description |
|---|---|
| | |
| | |

**Other QA/QC Items to Note:**
The data is acceptable for use without qualification except as listed in the DVM Narrative Report. The analytical reports are stored on a network drive due to the file size and will be made for review upon request.

* See DVM Narrative Report, Lab Report, or ER # for further details as indicated.

## 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:** CAP SW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** The analysis hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

| Field Sample ID | Date Sampled | Lab Sample ID | Analyte | Result | Units | Type | MDL | PQL | Validation Qualifier | Analytical Method | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | PFECA B | 0.0027 | UG/L | PQL | | 0.0027 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | PFECA-G | 0.0048 | UG/L | PQL | | 0.0048 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | EVE Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | Perfluoroheptanoic Acid | 0.0094 | UG/L | PQL | | 0.0094 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | R-PSDCA | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | Perfluoro(2-ethoxyethane)sulfonic Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | PFECA-G | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | PFECA B | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | EVE Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | Hydro-PS Acid | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | Hydro-EVE Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | PFO3OA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | PFO4DA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | PFO5DA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | Hydrolyzed PSDA | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | R-PSDCA | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** The analysis hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

| Field Sample ID | Date Sampled | Lab Sample ID | Analyte | Result | Units | Type | MDL | PQL | Validation Qualifier | Analytical Method | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | R-EVE | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | PEPA | 0.020 | UG/L | PQL | | 0.020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | PS Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | Perfluoro(2-ethoxyethane)sulfonic Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-EQBLK-IS-072821 | 07/28/2021 | 320-77002-5 | PFO5DA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-EQBLK-IS-072821 | 07/28/2021 | 320-77002-5 | PFO5DA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-OUTFALL-002-24-072821 | 07/28/2021 | 320-77020-1 | R-PSDA | 0.061 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OUTFALL-002-24-072821 | 07/28/2021 | 320-77020-1 | R-PSDA | 0.062 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-CFR-BLADEN-072721 | 07/27/2021 | 320-76991-2 | R-PSDA | 0.0069 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-BLADEN-072721 | 07/27/2021 | 320-76991-2 | Hydrolyzed PSDA | 0.0071 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-BLADEN-072721 | 07/27/2021 | 320-76991-2 | R-EVE | 0.0044 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-KINGS-073021 | 07/30/2021 | 320-77167-3 | R-PSDA | 0.0083 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-KINGS-073021 | 07/30/2021 | 320-77167-3 | Hydrolyzed PSDA | 0.0065 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-KINGS-073021 | 07/30/2021 | 320-77167-3 | R-EVE | 0.0045 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-TARHEEL-072821 | 07/28/2021 | 320-76991-5 | Hydrolyzed PSDA | 0.0033 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-TARHEEL-24-072821 | 07/28/2021 | 320-77167-1 | R-PSDA | 0.0090 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-TARHEEL-24-072821 | 07/28/2021 | 320-77167-1 | Hydrolyzed PSDA | 0.0048 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-GBC-1-072721 | 07/27/2021 | 320-76991-3 | R-PSDA | 0.033 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-GBC-1-072721 | 07/27/2021 | 320-76991-3 | R-EVE | 0.016 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LOCK-DAM-SEEP-072721 | 07/27/2021 | 320-76991-4 | R-PSDA | 0.57 | UG/L | PQL | | 0.035 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LOCK-DAM-SEEP-072721 | 07/27/2021 | 320-76991-4 | Hydrolyzed PSDA | 0.61 | UG/L | PQL | | 0.019 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-LOCK-DAM-SEEP-072721 | 07/27/2021 | 320-76991-4 | R-EVE | 0.24 | UG/L | PQL | | 0.036 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | R-PSDA | 0.056 | UG/L | PQL | | 0.0071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | Hydrolyzed PSDA | 0.12 | UG/L | PQL | | 0.0038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | R-EVE | 0.034 | UG/L | PQL | | 0.0072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OUTFALL-002-24-072821 | 07/28/2021 | 320-77020-1 | Hydrolyzed PSDA | 0.16 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OUTFALL-002-24-072821 | 07/28/2021 | 320-77020-1 | Hydrolyzed PSDA | 0.17 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OUTFALL-002-24-072821 | 07/28/2021 | 320-77020-1 | R-EVE | 0.23 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OUTFALL-002-24-072821 | 07/28/2021 | 320-77020-1 | R-EVE | 0.24 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-SEEP-C-EFF-24-072821 | 07/28/2021 | 320-77002-2 | Hydrolyzed PSDA | 0.0033 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-WC-1-20-072821 | 07/28/2021 | 320-77020-2 | R-PSDA | 0.072 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-WC-1-20-072821 | 07/28/2021 | 320-77020-2 | Hydrolyzed PSDA | 0.26 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-WC-1-20-072821 | 07/28/2021 | 320-77020-2 | R-EVE | 0.039 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-WC-1-20-072821-D | 07/28/2021 | 320-77020-3 | R-PSDA | 0.077 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-WC-1-20-072821-D | 07/28/2021 | 320-77020-3 | Hydrolyzed PSDA | 0.28 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-WC-1-20-072821-D | 07/28/2021 | 320-77020-3 | R-EVE | 0.041 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** The analysis hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

| Field Sample ID | Date Sampled | Lab Sample ID | Analyte | Result | Units | Type | MDL | PQL | Validation Qualifier | Analytical Method | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | R-PSDA | 0.0036 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | Perfluoroheptanoic Acid | 0.0041 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | PFO2HxA | 0.0035 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | PFMOAA | 0.0026 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | PMPA | 0.010 | UG/L | PQL | | 0.010 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | Hfpo Dimer Acid | 0.0034 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-CFR-RM-76-072721 | 07/27/2021 | 320-76991-1 | NVHOS, Acid Form | 0.0025 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | R-PSDA | 0.043 | UG/L | PQL | | 0.0071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | Hydrolyzed PSDA | 0.084 | UG/L | PQL | | 0.0038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | R-EVE | 0.019 | UG/L | PQL | | 0.0072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | PEPA | 0.24 | UG/L | PQL | | 0.020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | PS Acid | 0.0069 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | PFO2HxA | 1.4 | ug/L | PQL | | 0.0027 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | PFO3OA | 0.41 | ug/L | PQL | | 0.0039 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | PFO4DA | 0.16 | ug/L | PQL | | 0.0059 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | PFO5DA | 0.064 | ug/L | PQL | | 0.0078 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | PFMOAA | 3.9 | ug/L | PQL | | 0.0080 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** The analysis hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

| Field Sample ID | Date Sampled | Lab Sample ID | Analyte | Result | Units | Type | MDL | PQL | Validation Qualifier | Analytical Method | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | Hydro-PS Acid | 0.038 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | Hydro-EVE Acid | 0.020 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | NVHOS, Acid Form | 0.055 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | PMPA | 0.59 | UG/L | PQL | | 0.062 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OLDOF-1-24-072821 | 07/28/2021 | 320-76991-6 | Hfpo Dimer Acid | 1.1 | UG/L | PQL | | 0.0081 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 07/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0721-OUTFALL-002-24-072821 | 07/28/2021 | 320-77020-1 | PFMOAA | 0.0092 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0721-OUTFALL-002-24-072821 | 07/28/2021 | 320-77020-1 | PFMOAA | 0.0094 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

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# ADQM Data Review

**Site: Chemours Fayetteville**

**Project: CAP SW Sampling 08/21**

**Project Reviewer(s): Brandon Cordova, Michael Aucoin**

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# Program Sample List

| Field Sample ID | Lab Sample ID | Sample Matrix | Filtered | Sample Date | Sample Time | Sample Purpose |
|---|---|---|---|---|---|---|
| CAP0821-SEEP-A-BP-1-24-082021 | 320-78252-1 | Other liquid | N | 08/20/2021 | 06:56 | FS |
| CAP0821-SEEP-B-EFF-24-082021 | 320-78252-2 | Other liquid | N | 08/20/2021 | 13:26 | FS |
| CAP0821-SEEP-C-BP-1-24-081921 | 320-78252-3 | Other liquid | N | 08/19/2021 | 09:36 | FS |
| CAP0821-SEEP-D-EFF-24-081921 | 320-78252-4 | Other liquid | N | 08/19/2021 | 10:32 | FS |
| RIVER-WATER-INTAKE2-24-081921 | 320-78252-5 | Surface Water | N | 08/19/2021 | 08:06 | FS |
| CAP0821-WC-1-24-081921 | 320-78253-1 | Surface Water | N | 08/19/2021 | 08:00 | FS |
| CAP0821-OLDOF-1-24-081921 | 320-78253-2 | Surface Water | N | 08/19/2021 | 10:50 | FS |
| CAP0821-OLDOF-1-24-081921-DUP | 320-78253-3 | Surface Water | N | 08/19/2021 | 10:50 | DUP |
| CAP0821-LOCK-DAM-SEEP-081821 | 320-78260-1 | Surface Water | N | 08/18/2021 | 15:55 | FS |
| CAP0821-LOCK-DAM-NORTH-081821 | 320-78260-2 | Surface Water | N | 08/18/2021 | 16:05 | FS |
| CAP0821-GBC-1-081821 | 320-78260-3 | Surface Water | N | 08/18/2021 | 16:10 | FS |
| CAP0821-CFR-RM-76-081821 | 320-78260-4 | Surface Water | N | 08/18/2021 | 12:50 | FS |
| CAP0821-CFR-TARHEEL-081921 | 320-78260-5 | Surface Water | N | 08/19/2021 | 09:50 | FS |
| CAP0821-CFR-TARHEEL-24-082021 | 320-78262-1 | Surface Water | N | 08/20/2021 | 07:30 | FS |
| CAP0821-EQBLK-PP-081921 | 320-78262-2 | Blank Water | N | 08/19/2021 | 17:00 | EB |
| CAP0821-EQBLK-IS-081921 | 320-78262-3 | Blank Water | N | 08/19/2021 | 17:05 | EB |
| CAP0821-CFR-KINGS-082521 | 320-78262-4 | Surface Water | N | 08/25/2021 | 10:40 | FS |
| CAP0821-CFR-BLADEN-081921 | 320-78262-5 | Surface Water | N | 08/19/2021 | 09:20 | FS |
| CAP0821-OUTFALL-002-24-082021 | 320-78262-6 | Surface Water | N | 08/20/2021 | 13:34 | FS |

* FS=Field Sample
DUP=Field Duplicate
FB=Field Blank
EB=Equipment Blank
TB=Trip Blank

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# Analytical Protocol

| Lab Name | Lab Method | Parameter Category | Sampling Program |
|---|---|---|---|
| Eurofins TestAmerica, Sacramento | 537 Modified | Per- and Polyfluorinated Alkyl Substances (PFAS) | CAP SW Sampling 8/21 |
| Eurofins TestAmerica, Sacramento | Cl. Spec. Table 3 Compound SOP | Per- and Polyfluorinated Alkyl Substances (PFAS) | CAP SW Sampling 8/21 |

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# 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 | | | | |

| ER# | Description |
|---|---|
| | |
| | |

**Other QA/QC Items to Note:**
The data is acceptable for use without qualification except as listed in the DVM Narrative Report. The analytical reports are stored on a network drive due to the file size and will be made for review upon request.

* See DVM Narrative Report, Lab Report, or ER # for further details as indicated.

This updated whitebook reflects that a missing J qualifier for poor field duplicate precision was added following manual evaluation of the field duplicate results.

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## 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:** CAP SW Sampling 08/21 **Validation Options:** LABSTATS

**Validation Reason** The analysis hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

| Field Sample ID | Date Sampled | Lab Sample ID | Analyte | Result | Units | Type | MDL | PQL | Validation Qualifier | Analytical Method | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | Perfluoro(2-ethoxyethane)sulfonic Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | PMPA | 0.010 | UG/L | PQL | | 0.010 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | PFECA B | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | R-PSDA | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | Hydrolyzed PSDA | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | R-PSDCA | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | R-EVE | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | PEPA | 0.020 | UG/L | PQL | | 0.020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | PS Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | PFO3OA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | PFO4DA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | PFO5DA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | PFMOAA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | EVE Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | Hydro-PS Acid | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | Hydro-EVE Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 08/21 **Validation Options:** LABSTATS

**Validation Reason** The analysis hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

| Field Sample ID | Date Sampled | Lab Sample ID | Analyte | Result | Units | Type | MDL | PQL | Validation Qualifier | Analytical Method | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | NVHOS, Acid Form | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | PFECA-G | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | Perfluoro(2-ethoxyethane)sulfonic Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | PFECA B | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | R-EVE | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | PEPA | 0.020 | UG/L | PQL | | 0.020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | PS Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | R-PSDCA | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | PFO4DA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | PFO5DA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | EVE Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | Hydro-PS Acid | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | Hydro-EVE Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | PFECA-G | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | Perfluoro(2-ethoxyethane)sulfonic Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | Hydrolyzed PSDA | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | R-PSDCA | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 08/21 **Validation Options:** LABSTATS

**Validation Reason** The analysis hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

| Field Sample ID | Date Sampled | Lab Sample ID | Analyte | Result | Units | Type | MDL | PQL | Validation Qualifier | Analytical Method | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | PS Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | EVE Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | PFECA-G | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | PFECA B | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 08/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | Perfluoro(2-ethoxyethane)sulfonic Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | PFECA B | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | R-PSDA | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | R-EVE | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | PEPA | 0.020 | UG/L | PQL | | 0.020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | PS Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | Hydrolyzed PSDA | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | R-PSDCA | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | PFO4DA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | PFO5DA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | EVE Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | Hydro-PS Acid | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | Hydro-EVE Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | NVHOS, Acid Form | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | PFECA-G | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | Perfluoro(2-ethoxyethane)sulfonic Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | PFECA B | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 08/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | Hydrolyzed PSDA | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | R-PSDCA | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | PS Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | EVE Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | PFECA-G | 0.0024 | UG/L | PQL | | 0.0024 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | Perfluoro(2-ethoxyethane)sulfonic Acid | 0.0034 | UG/L | PQL | | 0.0034 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | PFECA B | 0.013 | UG/L | PQL | | 0.013 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | R-PSDCA | 0.0087 | UG/L | PQL | | 0.0087 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | PS Acid | 0.0098 | UG/L | PQL | | 0.0098 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | EVE Acid | 0.0087 | UG/L | PQL | | 0.0087 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | PFECA-G | 0.024 | UG/L | PQL | | 0.024 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 08/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0821-WC-1-24-081921 | 08/19/2021 | 320-78253-1 | R-PSDA | 0.085 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-WC-1-24-081921 | 08/19/2021 | 320-78253-1 | R-PSDA | 0.087 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-WC-1-24-081921 | 08/19/2021 | 320-78253-1 | Hydrolyzed PSDA | 0.19 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-WC-1-24-081921 | 08/19/2021 | 320-78253-1 | Hydrolyzed PSDA | 0.20 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-WC-1-24-081921 | 08/19/2021 | 320-78253-1 | R-EVE | 0.038 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-WC-1-24-081921 | 08/19/2021 | 320-78253-1 | R-EVE | 0.039 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 08/21 **Validation Options:** LABSTATS

**Validation Reason** High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

| Field Sample ID | Date Sampled | Lab Sample ID | Analyte | Result | Units | Type | MDL | PQL | Validation Qualifier | Analytical Method | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0821-SEEP-A-BP-1-24-082021 | 08/20/2021 | 320-78252-1 | PFO5DA | 0.45 | ug/L | PQL | | 0.0078 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 08/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0821-OLDOF-1-24-081921 | 08/19/2021 | 320-78253-2 | R-PSDA | 0.026 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-OLDOF-1-24-081921 | 08/19/2021 | 320-78253-2 | Hydrolyzed PSDA | 0.062 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-OLDOF-1-24-081921 | 08/19/2021 | 320-78253-2 | R-EVE | 0.011 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-OLDOF-1-24-081921-DUP | 08/19/2021 | 320-78253-3 | R-PSDA | 0.032 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-OLDOF-1-24-081921-DUP | 08/19/2021 | 320-78253-3 | Hydrolyzed PSDA | 0.069 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-OLDOF-1-24-081921-DUP | 08/19/2021 | 320-78253-3 | R-EVE | 0.013 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-OUTFALL-002-24-082021 | 08/20/2021 | 320-78262-6 | R-PSDA | 0.015 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-OUTFALL-002-24-082021 | 08/20/2021 | 320-78262-6 | Hydrolyzed PSDA | 0.018 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-OUTFALL-002-24-082021 | 08/20/2021 | 320-78262-6 | R-EVE | 0.0064 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-SEEP-A-BP-1-24-082021 | 08/20/2021 | 320-78252-1 | R-PSDA | 0.17 | UG/L | PQL | | 0.0071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-SEEP-A-BP-1-24-082021 | 08/20/2021 | 320-78252-1 | Hydrolyzed PSDA | 1.5 | UG/L | PQL | | 0.0038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-SEEP-A-BP-1-24-082021 | 08/20/2021 | 320-78252-1 | R-EVE | 0.086 | UG/L | PQL | | 0.0072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-SEEP-C-BP-1-24-081921 | 08/19/2021 | 320-78252-3 | R-PSDA | 0.74 | UG/L | PQL | | 0.035 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-SEEP-C-BP-1-24-081921 | 08/19/2021 | 320-78252-3 | Hydrolyzed PSDA | 0.97 | UG/L | PQL | | 0.019 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-SEEP-C-BP-1-24-081921 | 08/19/2021 | 320-78252-3 | R-EVE | 0.62 | UG/L | PQL | | 0.036 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| RIVER-WATER-INTAKE2-24-081921 | 08/19/2021 | 320-78252-5 | R-PSDA | 0.0091 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 08/21 **Validation Options:** LABSTATS

**Validation Reason** Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

| Field Sample ID | Date Sampled | Lab Sample ID | Analyte | Result | Units | Type | MDL | PQL | Validation Qualifier | Analytical Method | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RIVER-WATER-INTAKE2-24-081921 | 08/19/2021 | 320-78252-5 | R-EVE | 0.0020 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | R-EVE | 0.0023 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | Hydrolyzed PSDA | 0.0036 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | R-PSDA | 0.018 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | R-EVE | 0.0038 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | R-PSDA | 0.018 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | Hydrolyzed PSDA | 0.023 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | R-EVE | 0.0044 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | Hydrolyzed PSDA | 0.018 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | R-PSDA | 0.019 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-BLADEN-081921 | 08/19/2021 | 320-78262-5 | R-PSDA | 0.018 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-BLADEN-081921 | 08/19/2021 | 320-78262-5 | Hydrolyzed PSDA | 0.019 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-BLADEN-081921 | 08/19/2021 | 320-78262-5 | R-EVE | 0.0041 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-KINGS-082521 | 08/25/2021 | 320-78262-4 | R-PSDA | 0.011 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-KINGS-082521 | 08/25/2021 | 320-78262-4 | Hydrolyzed PSDA | 0.0060 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-KINGS-082521 | 08/25/2021 | 320-78262-4 | R-EVE | 0.0052 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 08/21 **Validation Options:** LABSTATS

**Validation Reason** The analysis hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

| Field Sample ID | Date Sampled | Lab Sample ID | Analyte | Result | Units | Type | MDL | PQL | Validation Qualifier | Analytical Method | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | R-PSDA | 0.036 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | Hydro-PS Acid | 0.036 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | Hydro-EVE Acid | 0.0025 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | NVHOS, Acid Form | 0.0033 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | Perfluoroheptanoic Acid | 0.0024 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | PFO2HxA | 0.32 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | PFO3OA | 0.052 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | PFO4DA | 0.019 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | PFO5DA | 0.0046 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | PFMOAA | 0.081 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | R-EVE | 0.014 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | PEPA | 0.19 | UG/L | PQL | | 0.020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | PMPA | 0.61 | UG/L | PQL | | 0.010 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-GBC-1-081821 | 08/18/2021 | 320-78260-3 | Hfpo Dimer Acid | 0.48 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | NVHOS, Acid Form | 0.0068 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | PFMOAA | 0.028 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | Perfluoroheptanoic Acid | 0.0042 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 08/21 **Validation Options:** LABSTATS

**Validation Reason** The analysis hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

| Field Sample ID | Date Sampled | Lab Sample ID | Analyte | Result | Units | Type | MDL | PQL | Validation Qualifier | Analytical Method | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | PFO2HxA | 0.017 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | PFO3OA | 0.0043 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | R-PSDA | 0.0062 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | Hydrolyzed PSDA | 0.011 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | PMPA | 0.018 | UG/L | PQL | | 0.010 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-081921 | 08/19/2021 | 320-78260-5 | Hfpo Dimer Acid | 0.015 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | Perfluoroheptanoic Acid | 0.0040 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | PFO2HxA | 0.0028 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-RM-76-081821 | 08/18/2021 | 320-78260-4 | Hfpo Dimer Acid | 0.0023 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 08/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | Hydro-PS Acid | 0.12 | ug/L | PQL | | 0.0031 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | Hydro-EVE Acid | 0.085 | UG/L | PQL | | 0.0072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | NVHOS, Acid Form | 0.86 | UG/L | PQL | | 0.0073 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | Perfluoroheptanoic Acid | 0.062 | UG/L | PQL | | 0.047 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | PFO2HxA | 23 | ug/L | PQL | | 0.013 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | PFO3OA | 9.9 | ug/L | PQL | | 0.020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | PFO4DA | 2.0 | ug/L | PQL | | 0.030 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | PFO5DA | 0.12 | ug/L | PQL | | 0.039 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | PFMOAA | 69 | ug/L | PQL | | 0.040 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | R-EVE | 0.21 | UG/L | PQL | | 0.036 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | PEPA | 2.2 | UG/L | PQL | | 0.020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | R-PSDA | 0.59 | UG/L | PQL | | 0.035 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | Hydrolyzed PSDA | 0.59 | UG/L | PQL | | 0.019 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | PMPA | 6.6 | UG/L | PQL | | 0.31 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-SEEP-081821 | 08/18/2021 | 320-78260-1 | Hfpo Dimer Acid | 7.2 | UG/L | PQL | | 0.041 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | Hydro-PS Acid | 0.080 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | Hydro-EVE Acid | 0.010 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 08/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | NVHOS, Acid Form | 0.022 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | Perfluoroheptanoic Acid | 0.0052 | UG/L | PQL | | 0.0047 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | PFO2HxA | 1.5 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | PFO3OA | 0.27 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | PFO4DA | 0.085 | ug/L | PQL | | 0.0030 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | PFO5DA | 0.011 | ug/L | PQL | | 0.0039 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | PFMOAA | 0.80 | ug/L | PQL | | 0.0040 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | R-EVE | 0.062 | UG/L | PQL | | 0.0036 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | PEPA | 0.79 | UG/L | PQL | | 0.020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | R-PSDA | 0.12 | UG/L | PQL | | 0.0035 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | PMPA | 2.5 | UG/L | PQL | | 0.031 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-LOCK-DAM-NORTH-081821 | 08/18/2021 | 320-78260-2 | Hfpo Dimer Acid | 1.8 | UG/L | PQL | | 0.0041 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | PFMOAA | 0.022 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | Perfluoroheptanoic Acid | 0.0035 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | PFO2HxA | 0.014 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | PFO3OA | 0.0027 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | PMPA | 0.015 | UG/L | PQL | | 0.010 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 08/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0821-CFR-TARHEEL-24-082021 | 08/20/2021 | 320-78262-1 | Hfpo Dimer Acid | 0.013 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

# ADQM Data Review

**Site: Chemours Fayetteville**

**Project: CAP SW Sampling 09/21**

**Project Reviewer: Bridget Gavaghan**

# Sample Summary

| Field Sample ID | Lab Sample ID | Sample Matrix | Filtered | Sample Date | Sample Time | Sample Purpose |
|---|---|---|---|---|---|---|
| CAP0921-OUTFALL-002-24-091521 | 320-79065-1 | Surface Water | N | 09/15/2021 | 06:36 | FS |
| CAP0921-OUTFALL-002-24-091521D | 320-79065-2 | Surface Water | N | 09/15/2021 | 06:36 | DUP |
| CAP0921-WC-1-24-091521 | 320-79065-3 | Surface Water | N | 09/15/2021 | 05:00 | FS |
| CAP0921-GBC-1-091421 | 320-79067-1 | Surface Water | N | 09/14/2021 | 16:45 | FS |
| CAP0921-CFR-RM-76-091421 | 320-79067-2 | Surface Water | N | 09/14/2021 | 12:10 | FS |
| CAP0921-CFR-BLADEN-091421 | 320-79067-3 | Surface Water | N | 09/14/2021 | 17:45 | FS |
| CAP0921-CFR-TARHEEL-091521 | 320-79067-4 | Surface Water | N | 09/15/2021 | 09:00 | FS |
| CAP0921-LOCK-DAM-SEEP-091421 | 320-79067-5 | Surface Water | N | 09/14/2021 | 15:05 | FS |
| CAP0921-LOCK-DAM-NORTH-091421 | 320-79075-1 | Surface Water | N | 09/14/2021 | 15:25 | FS |
| CAP0921-EQBLK-IS-091421 | 320-79075-2 | Blank Water | N | 09/14/2021 | 10:00 | EB |
| CAP0921-EQBLK-PP-091421 | 320-79075-3 | Blank Water | N | 09/14/2021 | 10:05 | EB |
| CAP0921-SEEP-A-EFF-12-091421 | 320-79075-4 | Other liquid | N | 09/14/2021 | 17:48 | FS |
| CAP0921-SEEP-B-EFF-24-091521 | 320-79093-1 | Other liquid | N | 09/15/2021 | 06:12 | FS |
| CAP0921-SEEP-C-EFF-24-091521 | 320-79093-2 | Other liquid | N | 09/15/2021 | 13:27 | FS |
| CAP0921-SEEP-D-EFF-24-091521 | 320-79093-3 | Other liquid | N | 09/15/2021 | 06:54 | FS |
| CAP0921-OLDOF-1-24-091521 | 320-79093-4 | Surface Water | N | 09/15/2021 | 07:36 | FS |
| RIVER-WATER-INTAKE2-24-091521 | 320-79093-5 | Surface Water | N | 09/15/2021 | 05:06 | FS |
| CAP0921-CFR-TARHEEL-24-091521 | 320-79449-1 | Surface Water | N | 09/15/2021 | 20:36 | FS |
| CAP0921-CFR-KINGS-092121 | 320-79449-2 | Surface Water | N | 09/21/2021 | 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 TestAmerica, Sacramento | Cl. Spec. Table 3 Compound SOP | Per- and Polyfluorinated Alkyl Substances (PFAS) | CAP SW Sampling 9/21 |

# 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 | | 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 | | | | | |
| **ER#** | **Description** | | | | | | |
| | | | | | | | |
| | | | | | | | |
| **Other QA/QC Items to Note:** | | | | | | | |

* See DVM Narrative Report, Laboratory Report, and/or ER # for further details as indicated.

The electronic data submitted for this project were reviewed via the Data Verification Module (DVM) process. Overall, the data are acceptable for use without qualification, except as noted on the attached DVM Narrative Report.
The lab reports due to a large page count are stored on a network shared drive and are available to be posted on external shared drives, or on a flash drive.

## Data Verification Module (DVM)

The DVM is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software, Locus EIM™ database Data Verification Module (DVM), and manual reviewer evaluations. The data are evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike (MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- Difference/RPD between field duplicate sample pairs
- RPD between laboratory replicates for inorganic analyses
- Difference/percent difference between total and dissolved sample pairs

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 9/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | Perfluoro(2-ethoxyethane)sulfonic Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | PFECA B | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | R-PSDA | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | R-PSDCA | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | PS Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | Perfluoroheptanoic Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | R-EVE | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | PFO4DA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | PFO5DA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | EVE Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | Hydro-PS Acid | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | Hydro-EVE Acid | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | PFECA-G | 0.0020 | UG/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 9/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0921-OUTFALL-002-24-091521 | 09/15/2021 | 320-79065-1 | R-PSDA | 0.011 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-OUTFALL-002-24-091521 | 09/15/2021 | 320-79065-1 | R-PSDA | 0.010 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-OUTFALL-002-24-091521 | 09/15/2021 | 320-79065-1 | Hydrolyzed PSDA | 0.020 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-OUTFALL-002-24-091521 | 09/15/2021 | 320-79065-1 | Hydrolyzed PSDA | 0.019 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-OUTFALL-002-24-091521 | 09/15/2021 | 320-79065-1 | R-EVE | 0.0033 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-OUTFALL-002-24-091521 | 09/15/2021 | 320-79065-1 | R-EVE | 0.0032 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-OUTFALL-002-24-091521D | 09/15/2021 | 320-79065-2 | R-PSDA | 0.012 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-OUTFALL-002-24-091521D | 09/15/2021 | 320-79065-2 | Hydrolyzed PSDA | 0.019 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-OUTFALL-002-24-091521D | 09/15/2021 | 320-79065-2 | R-EVE | 0.0036 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 9/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0921-WC-1-24-091521 | 09/15/2021 | 320-79065-3 | R-PSDA | 0.050 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-WC-1-24-091521 | 09/15/2021 | 320-79065-3 | Hydrolyzed PSDA | 0.31 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-WC-1-24-091521 | 09/15/2021 | 320-79065-3 | R-EVE | 0.026 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| RIVER-WATER-INTAKE2-24-091521 | 09/15/2021 | 320-79093-5 | R-PSDA | 0.011 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| RIVER-WATER-INTAKE2-24-091521 | 09/15/2021 | 320-79093-5 | Hydrolyzed PSDA | 0.012 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| RIVER-WATER-INTAKE2-24-091521 | 09/15/2021 | 320-79093-5 | R-EVE | 0.0034 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | R-EVE | 0.0051 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | Hydrolyzed PSDA | 0.032 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | R-PSDA | 0.0060 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-CFR-BLADEN-091421 | 09/14/2021 | 320-79067-3 | R-PSDA | 0.0076 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-CFR-BLADEN-091421 | 09/14/2021 | 320-79067-3 | Hydrolyzed PSDA | 0.0091 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-CFR-BLADEN-091421 | 09/14/2021 | 320-79067-3 | R-EVE | 0.0021 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-CFR-KINGS-092121 | 09/21/2021 | 320-79449-2 | R-PSDA | 0.0075 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-CFR-KINGS-092121 | 09/21/2021 | 320-79449-2 | Hydrolyzed PSDA | 0.0070 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-CFR-KINGS-092121 | 09/21/2021 | 320-79449-2 | R-EVE | 0.0030 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-CFR-RM-76-091421 | 09/14/2021 | 320-79067-2 | R-PSDA | 0.0074 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 9/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0921-CFR-RM-76-091421 | 09/14/2021 | 320-79067-2 | Hydrolyzed PSDA | 0.0025 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-CFR-TARHEEL-091521 | 09/15/2021 | 320-79067-4 | R-PSDA | 0.0088 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-CFR-TARHEEL-091521 | 09/15/2021 | 320-79067-4 | Hydrolyzed PSDA | 0.011 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-CFR-TARHEEL-091521 | 09/15/2021 | 320-79067-4 | R-EVE | 0.0030 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-CFR-TARHEEL-24-091521 | 09/15/2021 | 320-79449-1 | R-PSDA | 0.011 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-CFR-TARHEEL-24-091521 | 09/15/2021 | 320-79449-1 | Hydrolyzed PSDA | 0.012 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-CFR-TARHEEL-24-091521 | 09/15/2021 | 320-79449-1 | R-EVE | 0.0025 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-GBC-1-091421 | 09/14/2021 | 320-79067-1 | R-PSDA | 0.031 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-GBC-1-091421 | 09/14/2021 | 320-79067-1 | R-EVE | 0.014 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-LOCK-DAM-NORTH-091421 | 09/14/2021 | 320-79075-1 | R-PSDA | 0.13 | UG/L | PQL | | 0.0071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-LOCK-DAM-NORTH-091421 | 09/14/2021 | 320-79075-1 | R-EVE | 0.046 | UG/L | PQL | | 0.0072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-LOCK-DAM-SEEP-091421 | 09/14/2021 | 320-79067-5 | R-PSDA | 0.65 | UG/L | PQL | | 0.035 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-LOCK-DAM-SEEP-091421 | 09/14/2021 | 320-79067-5 | Hydrolyzed PSDA | 0.74 | UG/L | PQL | | 0.019 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-LOCK-DAM-SEEP-091421 | 09/14/2021 | 320-79067-5 | R-EVE | 0.20 | UG/L | PQL | | 0.036 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-OLDOF-1-24-091521 | 09/15/2021 | 320-79093-4 | R-PSDA | 0.0091 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-OLDOF-1-24-091521 | 09/15/2021 | 320-79093-4 | Hydrolyzed PSDA | 0.014 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-OLDOF-1-24-091521 | 09/15/2021 | 320-79093-4 | R-EVE | 0.0049 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 9/21 **Validation Options:** LABSTATS

**Validation Reason** 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 SOP | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0921-SEEP-A-EFF-12-091421 | 09/14/2021 | 320-79075-4 | Hydrolyzed PSDA | 0.0026 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** CAP SW Sampling 9/21 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | NVHOS, Acid Form | 0.0028 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | PFMOAA | 0.21 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | PEPA | 0.043 | UG/L | PQL | | 0.020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | PFO2HxA | 0.040 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | PFO3OA | 0.0060 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | Hydrolyzed PSDA | 0.029 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | PMPA | 0.14 | UG/L | PQL | | 0.010 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CAP0921-SEEP-B-EFF-24-091521 | 09/15/2021 | 320-79093-1 | Hfpo Dimer Acid | 0.057 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

# ADQM Data Review

**Site: Chemours Fayetteville**

**Project: Seep Flow Through Cell Sampling 2021 (select lots)**

**Project Reviewer: Michael Aucoin**

## Sample Summary

| Field Sample ID | Lab Sample ID | Sample Matrix | Filtered | Sample Date | Sample Time | Sample Purpose |
|---|---|---|---|---|---|---|
| SEEP-A-INFLUENT-Rain-24-070921 | 320-76059-1 | Other liquid | N | 07/09/2021 | 09:50 | FS |
| SEEP-A-EFFLUENT-Rain-24-070921 | 320-76059-2 | Other liquid | N | 07/09/2021 | 09:50 | FS |
| SEEP-C-INFLUENT-Rain-24-070921 | 320-76059-3 | Other liquid | N | 07/09/2021 | 09:00 | FS |
| SEEP-C-EFFLUENT-Rain-24-070921 | 320-76059-4 | Other liquid | N | 07/09/2021 | 09:00 | FS |
| SEEP-D-INFLUENT-Rain-24-070921 | 320-76059-5 | Other liquid | N | 07/09/2021 | 09:00 | FS |
| SEEP-D-EFFLUENT-Rain-24-070921 | 320-76059-6 | Other liquid | N | 07/09/2021 | 09:00 | FS |
| SEEP-B-INFLUENT-Rain-24-070921 | 320-76059-7 | Other liquid | N | 07/09/2021 | 09:15 | FS |
| SEEP-B-EFFLUENT-Rain-24-070921 | 320-76059-8 | Other liquid | N | 07/09/2021 | 09:15 | FS |
| SEEP-EQBLK-070921 | 320-76059-9 | Blank Water | N | 07/09/2021 | 12:00 | EB |
| SEEP-A-INFLUENT-336-081721 | 320-77803-1 | Other liquid | N | 08/17/2021 | 10:00 | FS |
| SEEP-D-EFFLUENT-336-081721-D | 320-77803-10 | Other liquid | N | 08/17/2021 | 10:00 | DUP |
| SEEP-A-EFFLUENT-306-081721 | 320-77803-2 | Other liquid | N | 08/17/2021 | 10:00 | FS |
| SEEP-C-INFLUENT-336-081721 | 320-77803-3 | Other liquid | N | 08/17/2021 | 10:00 | FS |
| SEEP-C-EFFLUENT-336-081721 | 320-77803-4 | Other liquid | N | 08/17/2021 | 10:00 | FS |

| | | | | | | |
|---|---|---|---|---|---|---|
| SEEP-D-INFLUENT-306-081721 | 320-77803-5 | Other liquid | N | 08/17/2021 | 10:00 | FS |
| SEEP-D-EFFLUENT-336-081721 | 320-77803-6 | Other liquid | N | 08/17/2021 | 10:00 | FS |
| SEEP-B-INFLUNET-336-081721 | 320-77803-7 | Other liquid | N | 08/17/2021 | 10:00 | FS |
| SEEP-B-EFFLUENT-336-081721 | 320-77803-8 | Other liquid | N | 08/17/2021 | 10:00 | FS |
| SEEP-FBLK-081721 | 320-77803-9 | Blank Water | N | 08/17/2021 | 10:00 | FB |
| SEEP-A-INFLUENT-Rain-24-081821 | 320-77907-1 | Other liquid | N | 08/18/2021 | 19:00 | FS |
| SEEP-A-EFFLUENT-Rain-24-081821 | 320-77907-2 | Other liquid | N | 08/18/2021 | 19:00 | FS |
| SEEP-C-INFLUENT-Rain-24-081821 | 320-77907-3 | Other liquid | N | 08/18/2021 | 19:00 | FS |
| SEEP-C-EFFLUENT-Rain-24-081821 | 320-77907-4 | Other liquid | N | 08/18/2021 | 19:00 | FS |
| SEEP-D-INFLUENT-Rain-23-081821 | 320-77907-5 | Other liquid | N | 08/18/2021 | 19:00 | FS |
| SEEP-D-EFFLUENT-Rain-21-081821 | 320-77907-6 | Other liquid | N | 08/18/2021 | 19:00 | FS |
| SEEP-B-INFLUENT-Rain-24-081821 | 320-77907-7 | Other liquid | N | 08/18/2021 | 19:00 | FS |
| SEEP-B-EFFLUENT-Rain-24-081821 | 320-77907-8 | Other liquid | N | 08/18/2021 | 19:00 | FS |
| SEEP-EQBLK-081921 | 320-77907-9 | Blank Water | N | 08/19/2021 | 10:00 | EB |
| SEEP-A-INFLUENT-24-082021 | 320-78111-1 | Surface Water | N | 08/20/2021 | 19:00 | FS |
| SEEP-A-EFFLUENT-24-082021 | 320-78111-2 | Surface Water | N | 08/20/2021 | 19:00 | FS |

| | | | | | | |
|---|---|---|---|---|---|---|
| SEEP-C-INFLUENT-24-082021 | 320-78111-3 | Surface Water | N | 08/20/2021 | 19:00 | FS |
| SEEP-C-EFFLUENT-24-082021 | 320-78111-4 | Surface Water | N | 08/20/2021 | 19:00 | FS |
| SEEP-D-INFLUENT-24-082021 | 320-78111-5 | Surface Water | N | 08/20/2021 | 19:00 | FS |
| SEEP-D-EFFLUENT-24-082021 | 320-78111-6 | Surface Water | N | 08/20/2021 | 19:00 | FS |
| SEEP-B-INFLUENT-24-082021 | 320-78111-7 | Surface Water | N | 08/20/2021 | 19:00 | FS |
| SEEP-B-EFFLUENT-24-082021 | 320-78111-8 | Surface Water | N | 08/20/2021 | 19:00 | 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 TestAmerica, Sacramento | Cl. Spec. Table 3 Compound SOP | Per- and Polyfluorinated Alkyl Substances (PFAS) | Seep Flow Through Cell Sampling 2021 |

# 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 | | | | |
| 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 | | | | |
| **ER#** | **Description:** | | | | | |
| | | | | | | |
| | | | | | | |
| **Other QA/QC Items to Note:** | | | | | | |

* 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. 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:** Seep Flow Through Cell Sampling 2021 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEEP-D-EFFLUENT-336-081721 | 08/17/2021 | 320-77803-6 | PFMOAA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-D-EFFLUENT-336-081721 | 08/17/2021 | 320-77803-6 | PFMOAA | 0.0020 | ug/L | PQL | | 0.0020 | UJ | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2021 **Validation Options:** LABSTATS

**Validation Reason** Associated LCS and/or LCSD 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEEP-D-INFLUENT-306-081721 | 08/17/2021 | 320-77803-5 | R-PSDA | 0.73 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-A-INFLUENT-336-081721 | 08/17/2021 | 320-77803-1 | R-PSDA | 2.1 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-B-INFLUNET-336-081721 | 08/17/2021 | 320-77803-7 | R-PSDA | 4.8 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-C-INFLUENT-336-081721 | 08/17/2021 | 320-77803-3 | R-PSDA | 0.88 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2021 **Validation Options:** LABSTATS

**Validation Reason** High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

| Field Sample ID | Date Sampled | Lab Sample ID | Analyte | Result | Units | Type | MDL | PQL | Validation Qualifier | Analytical Method | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEEP-A-INFLUENT-Rain-24-081821 | 08/18/2021 | 320-77907-1 | R-PSDA | 2.2 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-A-INFLUENT-Rain-24-081821 | 08/18/2021 | 320-77907-1 | Hydrolyzed PSDA | 25 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-A-INFLUENT-Rain-24-081821 | 08/18/2021 | 320-77907-1 | R-EVE | 0.93 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-B-INFLUENT-Rain-24-081821 | 08/18/2021 | 320-77907-7 | R-PSDA | 5.4 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-B-INFLUENT-Rain-24-081821 | 08/18/2021 | 320-77907-7 | Hydrolyzed PSDA | 36 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-B-INFLUENT-Rain-24-081821 | 08/18/2021 | 320-77907-7 | R-EVE | 4.0 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-C-INFLUENT-Rain-24-081821 | 08/18/2021 | 320-77907-3 | R-PSDA | 1.1 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-C-INFLUENT-Rain-24-081821 | 08/18/2021 | 320-77907-3 | Hydrolyzed PSDA | 1.0 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-C-INFLUENT-Rain-24-081821 | 08/18/2021 | 320-77907-3 | R-EVE | 0.95 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-D-INFLUENT-Rain-23-081821 | 08/18/2021 | 320-77907-5 | R-PSDA | 0.73 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-D-INFLUENT-Rain-23-081821 | 08/18/2021 | 320-77907-5 | Hydrolyzed PSDA | 1.8 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-D-INFLUENT-Rain-23-081821 | 08/18/2021 | 320-77907-5 | R-EVE | 0.89 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2021 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEEP-D-INFLUENT-306-081721 | 08/17/2021 | 320-77803-5 | Hydrolyzed PSDA | 2.0 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-D-INFLUENT-306-081721 | 08/17/2021 | 320-77803-5 | R-EVE | 0.73 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-A-EFFLUENT-24-082021 | 08/20/2021 | 320-78111-2 | Hydrolyzed PSDA | 0.0022 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-A-INFLUENT-24-082021 | 08/20/2021 | 320-78111-1 | R-PSDA | 1.7 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-A-INFLUENT-24-082021 | 08/20/2021 | 320-78111-1 | Hydrolyzed PSDA | 19 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-A-INFLUENT-24-082021 | 08/20/2021 | 320-78111-1 | R-EVE | 0.97 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-B-INFLUENT-24-082021 | 08/20/2021 | 320-78111-7 | R-PSDA | 4.0 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-B-INFLUENT-24-082021 | 08/20/2021 | 320-78111-7 | Hydrolyzed PSDA | 29 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-B-INFLUENT-24-082021 | 08/20/2021 | 320-78111-7 | R-EVE | 3.2 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-C-INFLUENT-24-082021 | 08/20/2021 | 320-78111-3 | R-PSDA | 0.58 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-C-INFLUENT-24-082021 | 08/20/2021 | 320-78111-3 | Hydrolyzed PSDA | 0.70 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-C-INFLUENT-24-082021 | 08/20/2021 | 320-78111-3 | R-EVE | 0.55 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-D-INFLUENT-24-082021 | 08/20/2021 | 320-78111-5 | R-PSDA | 0.56 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-D-INFLUENT-24-082021 | 08/20/2021 | 320-78111-5 | Hydrolyzed PSDA | 1.3 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-D-INFLUENT-24-082021 | 08/20/2021 | 320-78111-5 | R-EVE | 0.58 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-A-INFLUENT-Rain-24-070921 | 07/09/2021 | 320-76059-1 | R-PSDA | 1.2 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2021 **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEEP-A-INFLUENT-Rain-24-070921 | 07/09/2021 | 320-76059-1 | Hydrolyzed PSDA | 11 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-A-INFLUENT-Rain-24-070921 | 07/09/2021 | 320-76059-1 | R-EVE | 0.60 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-B-INFLUENT-Rain-24-070921 | 07/09/2021 | 320-76059-7 | R-PSDA | 2.5 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-B-INFLUENT-Rain-24-070921 | 07/09/2021 | 320-76059-7 | Hydrolyzed PSDA | 17 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-B-INFLUENT-Rain-24-070921 | 07/09/2021 | 320-76059-7 | R-EVE | 2.2 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-C-INFLUENT-Rain-24-070921 | 07/09/2021 | 320-76059-3 | R-PSDA | 0.24 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-C-INFLUENT-Rain-24-070921 | 07/09/2021 | 320-76059-3 | Hydrolyzed PSDA | 0.29 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-C-INFLUENT-Rain-24-070921 | 07/09/2021 | 320-76059-3 | R-EVE | 0.20 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-D-INFLUENT-Rain-24-070921 | 07/09/2021 | 320-76059-5 | R-PSDA | 0.46 | UG/L | PQL | | 0.071 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-D-INFLUENT-Rain-24-070921 | 07/09/2021 | 320-76059-5 | Hydrolyzed PSDA | 1.2 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-D-INFLUENT-Rain-24-070921 | 07/09/2021 | 320-76059-5 | R-EVE | 0.52 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-A-EFFLUENT-306-081721 | 08/17/2021 | 320-77803-2 | Hydrolyzed PSDA | 0.0058 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-A-INFLUENT-336-081721 | 08/17/2021 | 320-77803-1 | Hydrolyzed PSDA | 23 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-A-INFLUENT-336-081721 | 08/17/2021 | 320-77803-1 | R-EVE | 0.81 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-B-INFLUNET-336-081721 | 08/17/2021 | 320-77803-7 | Hydrolyzed PSDA | 32 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-B-INFLUNET-336-081721 | 08/17/2021 | 320-77803-7 | R-EVE | 2.8 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| SEEP-C-INFLUENT-336-081721 | 08/17/2021 | 320-77803-3 | Hydrolyzed PSDA | 1.2 | UG/L | PQL | | 0.038 | J | Cl. Spec. Table 3 Compound | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2021 **Validation Options:** LABSTATS

**Validation Reason** 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 SOP | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEEP-C-INFLUENT-336-081721 | 08/17/2021 | 320-77803-3 | R-EVE | 0.80 | UG/L | PQL | | 0.072 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

# ADQM Data Review

**Site: Chemours Fayetteville**

**Project: Tarheel Sampling 3Q21**

**Project Reviewer: Michael Aucoin**

## Sample Summary

| Field Sample ID | Lab Sample ID | Sample Matrix | Filtered | Sample Date | Sample Time | Sample Purpose |
|---|---|---|---|---|---|---|
| CFR-TARHEEL-24-070121 | 320-76118-1 | Surface Water | N | 07/01/2021 | 23:01 | FS |
| CFR-TARHEEL-24-070221 | 320-76118-2 | Surface Water | N | 07/02/2021 | 23:01 | FS |
| CFR-TARHEEL-24-070721 | 320-76118-3 | Surface Water | N | 07/07/2021 | 23:01 | FS |
| CFR-TARHEEL-24-070821 | 320-76118-4 | Surface Water | N | 07/08/2021 | 23:01 | FS |
| CFR-TARHEEL-24-071221 | 320-76577-1 | Surface Water | N | 07/12/2021 | 23:01 | FS |
| CFR-TARHEEL-24-071221-D | 320-76577-2 | Surface Water | N | 07/12/2021 | 23:01 | DUP |
| CFR-TARHEEL-24-071521 | 320-76577-3 | Surface Water | N | 07/15/2021 | 23:01 | FS |
| CFR-TARHEEL-24-071921 | 320-77018-1 | Surface Water | N | 07/19/2021 | 23:01 | FS |
| CFR-TARHEEL-24-072221 | 320-77018-2 | Surface Water | N | 07/22/2021 | 23:01 | FS |
| CFR-TARHEEL-24-072621 | 320-77146-1 | Surface Water | N | 07/26/2021 | 23:01 | FS |
| CFR-TARHEEL-24-072921 | 320-77146-2 | Surface Water | N | 07/29/2021 | 23:01 | FS |
| CFR-TARHEEL-24-080221 | 320-77601-1 | Surface Water | N | 08/02/2021 | 23:01 | FS |
| CFR-TARHEEL-24-080521 | 320-77601-2 | Surface Water | N | 08/05/2021 | 23:01 | FS |
| CFR-TARHEEL-24-081221 | 320-77901-1 | Surface Water | N | 08/12/2021 | 23:01 | FS |
| CFR-TARHEEL-24-081221-DUP | 320-77901-2 | Surface Water | N | 08/12/2021 | 23:01 | DUP |
| CFR-TARHEEL-24-081321 | 320-77901-3 | Surface Water | N | 08/13/2021 | 23:01 | FS |
| CFR-TARHEEL-24-081621 | 320-78259-1 | Surface Water | N | 08/16/2021 | 23:01 | FS |

| | | | | | | |
|---|---|---|---|---|---|---|
| CFR-TARHEEL-24-081921 | 320-78259-2 | Surface Water | N | 08/19/2021 | 23:01 | FS |
| CFR-TARHEEL-24-082321 | 320-78429-1 | Surface Water | N | 08/23/2021 | 23:01 | FS |
| CFR-TARHEEL-24-082621 | 320-78429-2 | Surface Water | N | 08/26/2021 | 23:01 | FS |
| CFR-TARHEEL-24-082921 | 320-78771-1 | Surface Water | N | 08/29/2021 | 23:01 | FS |
| CFR-TARHEEL-24-090221 | 320-78771-2 | Surface Water | N | 09/02/2021 | 23:01 | FS |
| CFR-TARHEEL-24-090621 | 320-78868-1 | Surface Water | N | 09/06/2021 | 23:01 | FS |
| CFR-TARHEEL-24-090921 | 320-78868-2 | Surface Water | N | 09/09/2021 | 23:01 | FS |
| CFR-TARHEEL-24-091321 | 320-79407-1 | Surface Water | N | 09/13/2021 | 23:01 | FS |
| CFR-TARHEEL-24-091321-D | 320-79407-2 | Surface Water | N | 09/13/2021 | 23:01 | DUP |
| CFR-TARHEEL-24-091621 | 320-79407-3 | Surface Water | N | 09/16/2021 | 23:01 | FS |
| CFR-TARHEEL-24-092021 | 320-79516-1 | Surface Water | N | 09/20/2021 | 23:01 | FS |
| CFR-TARHEEL-24-092121 | 320-79516-2 | Surface Water | N | 09/21/2021 | 23:01 | FS |
| CFR-TARHEEL-24-092721 | 320-80088-1 | Surface Water | N | 09/27/2021 | 23:01 | FS |
| CFR-TARHEEL-24-093021 | 320-80088-2 | Surface Water | N | 09/30/2021 | 23:01 | FS |

* FS=Field Sample
DUP=Field Duplicate
FB=Field Blank
EB=Equipment Blank
TB=Trip Blank

## Analytical Protocol

| Laboratory | Method | Parameters | Sampling Program |
|---|---|---|---|
| Eurofins TestAmerica, Sacramento | Cl. Spec. Table 3 Compound SOP | Per- and Polyfluorinated Alkyl Substances (PFAS)[1] | Tarheel Sampling |

[1] 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 | | | | |
| 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 | | | | |
| **ER#** | **Description:** | | | | | |
| | | | | | | |
| | | | | | | |
| **Other QA/QC Items to Note:** | | | | | | |

* 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** 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-24-071221 | 07/12/2021 | 320-76577-1 | Hydrolyzed PSDA | 0.0067 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-071221 | 07/12/2021 | 320-76577-1 | Hydrolyzed PSDA | 0.0070 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-081221 | 08/12/2021 | 320-77901-1 | R-PSDA | 0.0081 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-081221 | 08/12/2021 | 320-77901-1 | R-PSDA | 0.0079 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-081221 | 08/12/2021 | 320-77901-1 | R-EVE | 0.0020 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-081221 | 08/12/2021 | 320-77901-1 | R-EVE | 0.0020 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-091321 | 09/13/2021 | 320-79407-1 | Hydrolyzed PSDA | 0.0083 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-091321 | 09/13/2021 | 320-79407-1 | Hydrolyzed PSDA | 0.0085 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-091321 | 09/13/2021 | 320-79407-1 | R-EVE | 0.0027 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-091321 | 09/13/2021 | 320-79407-1 | R-EVE | 0.0027 | 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** High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

| Field Sample ID | Date Sampled | Lab Sample ID | Analyte | Result | Units | Type | MDL | PQL | Validation Qualifier | Analytical Method | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFR-TARHEEL-24-071221-D | 07/12/2021 | 320-76577-2 | R-PSDA | 0.0068 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-091321 | 09/13/2021 | 320-79407-1 | R-PSDA | 0.0094 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-091321 | 09/13/2021 | 320-79407-1 | R-PSDA | 0.0088 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-091321-D | 09/13/2021 | 320-79407-2 | R-PSDA | 0.012 | 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** Quality review criteria exceeded between the REP (laboratory replicate) and parent sample. The reported result may be imprecise.

| Field Sample ID | Date Sampled | Lab Sample ID | Analyte | Result | Units | Type | MDL | PQL | Validation Qualifier | Analytical Method | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFR-TARHEEL-24-071221 | 07/12/2021 | 320-76577-1 | PFMOAA | 0.0054 | 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** 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-24-070121 | 07/01/2021 | 320-76118-1 | Hydrolyzed PSDA | 0.0059 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-070221 | 07/02/2021 | 320-76118-2 | Hydrolyzed PSDA | 0.0082 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-070721 | 07/07/2021 | 320-76118-3 | R-PSDA | 0.019 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-070721 | 07/07/2021 | 320-76118-3 | Hydrolyzed PSDA | 0.013 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-070721 | 07/07/2021 | 320-76118-3 | R-EVE | 0.0029 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-070821 | 07/08/2021 | 320-76118-4 | Hydrolyzed PSDA | 0.0053 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-071221-D | 07/12/2021 | 320-76577-2 | Hydrolyzed PSDA | 0.0057 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-071521 | 07/15/2021 | 320-76577-3 | Hydrolyzed PSDA | 0.0048 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-071921 | 07/19/2021 | 320-77018-1 | R-PSDA | 0.010 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-071921 | 07/19/2021 | 320-77018-1 | Hydrolyzed PSDA | 0.013 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-071921 | 07/19/2021 | 320-77018-1 | R-EVE | 0.0029 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-072221 | 07/22/2021 | 320-77018-2 | R-PSDA | 0.011 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-072221 | 07/22/2021 | 320-77018-2 | Hydrolyzed PSDA | 0.0073 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-072221 | 07/22/2021 | 320-77018-2 | R-EVE | 0.0035 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-072621 | 07/26/2021 | 320-77146-1 | Hydrolyzed PSDA | 0.0022 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-072921 | 07/29/2021 | 320-77146-2 | R-PSDA | 0.0070 | 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** 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-24-072921 | 07/29/2021 | 320-77146-2 | Hydrolyzed PSDA | 0.0039 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-072921 | 07/29/2021 | 320-77146-2 | R-EVE | 0.0022 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-080221 | 08/02/2021 | 320-77601-1 | R-PSDA | 0.020 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-080221 | 08/02/2021 | 320-77601-1 | Hydrolyzed PSDA | 0.014 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-080221 | 08/02/2021 | 320-77601-1 | R-EVE | 0.0050 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-080521 | 08/05/2021 | 320-77601-2 | R-PSDA | 0.029 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-080521 | 08/05/2021 | 320-77601-2 | Hydrolyzed PSDA | 0.020 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-080521 | 08/05/2021 | 320-77601-2 | R-EVE | 0.0074 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-081221 | 08/12/2021 | 320-77901-1 | Hydrolyzed PSDA | 0.0046 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-081221 | 08/12/2021 | 320-77901-1 | Hydrolyzed PSDA | 0.0048 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-081221-DUP | 08/12/2021 | 320-77901-2 | R-PSDA | 0.0074 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-081221-DUP | 08/12/2021 | 320-77901-2 | Hydrolyzed PSDA | 0.0041 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-081321 | 08/13/2021 | 320-77901-3 | R-PSDA | 0.011 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-081321 | 08/13/2021 | 320-77901-3 | Hydrolyzed PSDA | 0.0034 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-081621 | 08/16/2021 | 320-78259-1 | R-PSDA | 0.0085 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-081621 | 08/16/2021 | 320-78259-1 | Hydrolyzed PSDA | 0.011 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-081621 | 08/16/2021 | 320-78259-1 | R-EVE | 0.0023 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** Tarheel Sampling **Validation Options:** LABSTATS

**Validation Reason** 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 SOP | Pre-prep | Prep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFR-TARHEEL-24-081921 | 08/19/2021 | 320-78259-2 | R-PSDA | 0.017 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-081921 | 08/19/2021 | 320-78259-2 | Hydrolyzed PSDA | 0.019 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-081921 | 08/19/2021 | 320-78259-2 | R-EVE | 0.0030 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-082321 | 08/23/2021 | 320-78429-1 | Hydrolyzed PSDA | 0.0040 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-082621 | 08/26/2021 | 320-78429-2 | Hydrolyzed PSDA | 0.0061 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-082921 | 08/29/2021 | 320-78771-1 | R-PSDA | 0.0061 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-082921 | 08/29/2021 | 320-78771-1 | Hydrolyzed PSDA | 0.0046 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-090221 | 09/02/2021 | 320-78771-2 | R-PSDA | 0.0055 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-090221 | 09/02/2021 | 320-78771-2 | Hydrolyzed PSDA | 0.0056 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-090621 | 09/06/2021 | 320-78868-1 | Hydrolyzed PSDA | 0.0059 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-090921 | 09/09/2021 | 320-78868-2 | Hydrolyzed PSDA | 0.0051 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-091321-D | 09/13/2021 | 320-79407-2 | Hydrolyzed PSDA | 0.0089 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-091621 | 09/16/2021 | 320-79407-3 | R-PSDA | 0.013 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-091621 | 09/16/2021 | 320-79407-3 | Hydrolyzed PSDA | 0.013 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-091621 | 09/16/2021 | 320-79407-3 | R-EVE | 0.0026 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-092021 | 09/20/2021 | 320-79516-1 | R-PSDA | 0.0062 | 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** 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-24-092021 | 09/20/2021 | 320-79516-1 | Hydrolyzed PSDA | 0.0064 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-092121 | 09/21/2021 | 320-79516-2 | R-PSDA | 0.0042 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-092121 | 09/21/2021 | 320-79516-2 | Hydrolyzed PSDA | 0.0061 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-092721 | 09/27/2021 | 320-80088-1 | R-PSDA | 0.0073 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-092721 | 09/27/2021 | 320-80088-1 | Hydrolyzed PSDA | 0.0064 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-093021 | 09/30/2021 | 320-80088-2 | R-PSDA | 0.0064 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-093021 | 09/30/2021 | 320-80088-2 | Hydrolyzed PSDA | 0.012 | UG/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-093021 | 09/30/2021 | 320-80088-2 | R-EVE | 0.0021 | 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** 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-24-071221 | 07/12/2021 | 320-76577-1 | PMPA | 0.020 | UG/L | PQL | | 0.010 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-071221 | 07/12/2021 | 320-76577-1 | PMPA | 0.022 | UG/L | PQL | | 0.010 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-071221-D | 07/12/2021 | 320-76577-2 | PMPA | 0.032 | UG/L | PQL | | 0.010 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-071521 | 07/15/2021 | 320-76577-3 | PMPA | 0.031 | UG/L | PQL | | 0.010 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-071921 | 07/19/2021 | 320-77018-1 | PMPA | 0.022 | UG/L | PQL | | 0.010 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-072221 | 07/22/2021 | 320-77018-2 | PMPA | 0.019 | UG/L | PQL | | 0.010 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

**Site:** Fayetteville **Sampling Program:** Tarheel Sampling **Validation Options:** LABSTATS

**Validation Reason** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFR-TARHEEL-24-071221 | 07/12/2021 | 320-76577-1 | PFMOAA | 0.0069 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-081221 | 08/12/2021 | 320-77901-1 | PFMOAA | 0.015 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |
| CFR-TARHEEL-24-081221 | 08/12/2021 | 320-77901-1 | PFMOAA | 0.015 | ug/L | PQL | | 0.0020 | J | Cl. Spec. Table 3 Compound SOP | | PFAS_DI_Prep |

Geosyntec consultants

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

# Appendix E

# Supporting Calculations – Onsite Groundwater Pathway

# APPENDIX E

# 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 Tables E1-1 through E1-3:

1. The Cape Fear River frontage was divided into 8 segments (Figure E1). 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[1] (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 is the Black Creek Aquifer thickness [ft];

$A$ is the cross-sectional area of the Black Creek Aquifer [$ft^2$]; and

$l$ is the segment length [ft].

The EVS model output for each segment is presented in Figure E2.

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

3. 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 (Figures E3-1 through E3-3):

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

where $i$ is the hydraulic gradient [ft/ft];

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

$d$ is 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 ten-foot elevation difference (between the 40 and 50 ft contours) and a twenty-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 E4 hydraulic gradients in the aquifer are relatively constant over time. With the exception of large changes in the river level (over ten feet), these wells respond to river level fluctuation in a subdued manner.

4. The hydraulic conductivity (K) was estimated for each segment using the results of constant rate tests performed at five extraction wells installed in the Black Creek Aquifer upstream of the river frontage (Geosyntec, 2021). The extraction wells used to determine the hydraulic conductivity for each segment are as follows, based on their locations relative to the segments (Figure E1):

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

5. 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 Tables A5-1 and A5-2 in Appendix A of this report. Due to the length of Segment 8, total PFAS concentrations for Segment 8 are 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 and September 2021. 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 $Q$ is the mass flux [mg/sec];

$l$ is the segment length [ft];

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

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

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

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

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

**7.** 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 8 segments. Parameters listed above were also used to estimate groundwater flow rates, shown in Tables E2-1 through E2-3.

**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 E1-1**
**JULY 2021 ONSITE GROUNDWATER PATHWAY SUPPORTING DATA**
**Chemours Fayetteville Works, North Carolina**

| | | | | | | | | | | | | | Total Attachment C[4] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Segment** | **Well** | **Sample Date** | **Segment Length (ft)** | **Cross-sectional Area of Black Creek Aquifer[1] ($ft^2$)** | **Average Thickness of Black Creek Aquifer (ft)** | **Lower Groundwater Contour Elevation Difference[2] (ft)** | **Horizontal Distance Between Contours (Lower Elevation Difference) [2] (ft)** | **Upper Groundwater Contour Elevation Difference[2] (ft)** | **Horizontal Distance Between Contours (Upper Elevation Difference) [2] (ft)** | **Hydraulic Gradient (Lower Elevation Difference) (ft/ft)** | **Hydraulic Gradient (Upper Elevation Difference) (ft/ft)** | **Hydraulic Conductivity[3] (ft/sec)** | **Concentration[6] (ng/L)** | **Mass Loading Lower Bound (mg/sec)** | **Mass Loading Upper Bound (mg/sec)** |
| 1 | PIW-1D | 7/16/2021 | 1,150 | 13,400 | 11.7 | 10 | 175.9 | 20 | 385.0 | 0.057 | 0.052 | 1.71E-04 | 48,000 | 0.1763 | 0.1612 |
| 2 | PIW-3D | 7/23/2021 | 873 | 11,010 | 12.6 | 10 | 361.4 | 20 | 574.5 | 0.028 | 0.035 | 1.71E-04 | 58,000 | 0.0854 | 0.1074 |
| 3 | LTW-02 | 7/29/2021 | 875 | 5,560 | 6.4 | 10 | 580.9 | 20 | 906.5 | 0.017 | 0.022 | 1.02E-04 | 43,000 | 0.0119 | 0.0152 |
| 4 | LTW-03 | 7/26/2021 | 729 | 2,800 | 3.9 | 10 | 561.7 | 20 | 856.2 | 0.018 | 0.023 | 1.02E-04 | 180,000 | 0.0261 | 0.0343 |
| 5 | PZ-22 | 7/23/2021 | 656 | 15,200 | 23.2 | 10 | 778.0 | 20 | 1,126.9 | 0.013 | 0.018 | 3.28E-04 | 250,000 | 0.4549 | 0.6282 |
| 6 | PIW-7D | 7/16/2021 | 524 | 16,000 | 30.5 | 10 | 685.2 | 20 | 1,047.8 | 0.015 | 0.019 | 3.28E-04 | 190,000 | 0.4111 | 0.5377 |
| 7 | LTW-05 | 7/30/2021 | 887 | 17,200 | 19.4 | 10 | 793.3 | 20 | 1,140.6 | 0.013 | 0.018 | 1.28E-04 | 230,000 | 0.1809 | 0.2516 |
| 8 | PW-11, PIW-10DR[7] | 7/23/2021 | 1,990 | 56,300 | 28.3 | 10 | 384.6 | 20 | 644.9 | 0.026 | 0.031 | 2.59E-04 | 235,000 | 2.5247 | 3.0115 |
| | | | | | | | | | | | | | **Total** | **3.87** | **4.75** |

***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 E2).
2 - Vertical and horizontal distances for hydraulic gradient determined from groundwater level contour map for the July 2021 synoptic well gauging round (Figure E3-1).
3 - Hydraulic conductivity values are based on constant rate pumping test results from extraction wells described in Appendix E text.
4 - Attachment C does not include Perfluorohepthanoic 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 A5-1.
7 - Due to the length of Segment 8, PFAS concentrations reported for Segment 8 are based on the average concentrations for 2 wells in the Black Creek Aquifer along the segment to better represent the length.
ft - feet
ft/sec - feet per second
$ft^2$ - square feet
mg/sec - milligrams per second
ng/L - nanograms per liter

**TABLE E1-1**
**JULY 2021 ONSITE GROUNDWATER PATHWAY SUPPORTING DATA**
**Chemours Fayetteville Works, North Carolina**

| | | | | | | | | | | | | | Total Table 3+ (17 Compounds)[5] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Segment** | **Well** | **Sample Date** | **Segment Length (ft)** | **Cross-sectional Area of Black Creek Aquifer[1] ($ft^2$)** | **Average Thickness of Black Creek Aquifer (ft)** | **Lower Groundwater Contour Elevation Difference[2] (ft)** | **Horizontal Distance Between Contours (Lower Elevation Difference)[2] (ft)** | **Upper Groundwater Contour Elevation Difference[2] (ft)** | **Horizontal Distance Between Contours (Upper Elevation Difference)[2] (ft)** | **Hydraulic Gradient (Lower Elevation Difference) (ft/ft)** | **Hydraulic Gradient (Upper Elevation Difference) (ft/ft)** | **Hydraulic Conductivity[3] (ft/sec)** | **Concentration[6] (ng/L)** | **Mass Loading Lower Bound (mg/sec)** | **Mass Loading Upper Bound (mg/sec)** |
| 1 | PIW-1D | 7/16/2021 | 1,150 | 13,400 | 11.7 | 10 | 175.9 | 20 | 385.0 | 0.057 | 0.052 | 1.71E-04 | 48,000 | 0.1763 | 0.1612 |
| 2 | PIW-3D | 7/23/2021 | 873 | 11,010 | 12.6 | 10 | 361.4 | 20 | 574.5 | 0.028 | 0.035 | 1.71E-04 | 59,000 | 0.0868 | 0.1092 |
| 3 | LTW-02 | 7/29/2021 | 875 | 5,560 | 6.4 | 10 | 580.9 | 20 | 906.5 | 0.017 | 0.022 | 1.02E-04 | 43,000 | 0.0119 | 0.0152 |
| 4 | LTW-03 | 7/26/2021 | 729 | 2,800 | 3.9 | 10 | 561.7 | 20 | 856.2 | 0.018 | 0.023 | 1.02E-04 | 180,000 | 0.0261 | 0.0343 |
| 5 | PZ-22 | 7/23/2021 | 656 | 15,200 | 23.2 | 10 | 778.0 | 20 | 1,126.9 | 0.013 | 0.018 | 3.28E-04 | 250,000 | 0.4549 | 0.6282 |
| 6 | PIW-7D | 7/16/2021 | 524 | 16,000 | 30.5 | 10 | 685.2 | 20 | 1,047.8 | 0.015 | 0.019 | 3.28E-04 | 190,000 | 0.4111 | 0.5377 |
| 7 | LTW-05 | 7/30/2021 | 887 | 17,200 | 19.4 | 10 | 793.3 | 20 | 1,140.6 | 0.013 | 0.018 | 1.28E-04 | 230,000 | 0.1809 | 0.2516 |
| 8 | PW-11, PIW-10DR[7] | 7/23/2021 | 1,990 | 56,300 | 28.3 | 10 | 384.6 | 20 | 644.9 | 0.026 | 0.031 | 2.59E-04 | 235,500 | 2.5300 | 3.0179 |
| | | | | | | | | | | | | | **Total** | **3.88** | **4.76** |

***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 E2).
2 - Vertical and horizontal distances for hydraulic gradient determined from groundwater level contour map for the July 2021 synoptic well gauging round (Figure E3-1).
3 - Hydraulic conductivity values are based on constant rate pumping test results from extraction wells described in Appendix E text.
4 - Attachment C does not include Perfluorohepthanoic 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 A5-1.
7 - Due to the length of Segment 8, PFAS concentrations reported for Segment 8 are based on the average concentrations for 2 wells in the Black Creek Aquifer along the segment to better represent the length.
ft - feet
ft/sec - feet per second
$ft^2$ - square feet
mg/sec - milligrams per second
ng/L - nanograms per liter

**TABLE E1-1**
**JULY 2021 ONSITE GROUNDWATER PATHWAY SUPPORTING DATA**
**Chemours Fayetteville Works, North Carolina**

| | | | | | | | | | | | | | Total Table 3+ (20 Compounds) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Segment** | **Well** | **Sample Date** | **Segment Length (ft)** | **Cross-sectional Area of Black Creek Aquifer[1] ($ft^2$)** | **Average Thickness of Black Creek Aquifer (ft)** | **Lower Groundwater Contour Elevation Difference[2] (ft)** | **Horizontal Distance Between Contours (Lower Elevation Difference)[2] (ft)** | **Upper Groundwater Contour Elevation Difference[2] (ft)** | **Horizontal Distance Between Contours (Upper Elevation Difference)[2] (ft)** | **Hydraulic Gradient (Lower Elevation Difference) (ft/ft)** | **Hydraulic Gradient (Upper Elevation Difference) (ft/ft)** | **Hydraulic Conductivity[3] (ft/sec)** | **Concentration[6] (ng/L)** | **Mass Loading Lower Bound (mg/sec)** | **Mass Loading Upper Bound (mg/sec)** |
| 1 | PIW-1D | 7/16/2021 | 1,150 | 13,400 | 11.7 | 10 | 175.9 | 20 | 385.0 | 0.057 | 0.052 | 1.71E-04 | 48,000 | 0.1763 | 0.1612 |
| 2 | PIW-3D | 7/23/2021 | 873 | 11,010 | 12.6 | 10 | 361.4 | 20 | 574.5 | 0.028 | 0.035 | 1.71E-04 | 61,000 | 0.0898 | 0.1129 |
| 3 | LTW-02 | 7/29/2021 | 875 | 5,560 | 6.4 | 10 | 580.9 | 20 | 906.5 | 0.017 | 0.022 | 1.02E-04 | 44,000 | 0.0121 | 0.0155 |
| 4 | LTW-03 | 7/26/2021 | 729 | 2,800 | 3.9 | 10 | 561.7 | 20 | 856.2 | 0.018 | 0.023 | 1.02E-04 | 180,000 | 0.0261 | 0.0343 |
| 5 | PZ-22 | 7/23/2021 | 656 | 15,200 | 23.2 | 10 | 778.0 | 20 | 1,126.9 | 0.013 | 0.018 | 3.28E-04 | 250,000 | 0.4549 | 0.6282 |
| 6 | PIW-7D | 7/16/2021 | 524 | 16,000 | 30.5 | 10 | 685.2 | 20 | 1,047.8 | 0.015 | 0.019 | 3.28E-04 | 200,000 | 0.4328 | 0.5660 |
| 7 | LTW-05 | 7/30/2021 | 887 | 17,200 | 19.4 | 10 | 793.3 | 20 | 1,140.6 | 0.013 | 0.018 | 1.28E-04 | 230,000 | 0.1809 | 0.2516 |
| 8 | PW-11, PIW-10DR[7] | 7/23/2021 | 1,990 | 56,300 | 28.3 | 10 | 384.6 | 20 | 644.9 | 0.026 | 0.031 | 2.59E-04 | 249,000 | 2.6751 | 3.1909 |
| | | | | | | | | | | | | | **Total** | **4.05** | **4.96** |

***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 E2).
2 - Vertical and horizontal distances for hydraulic gradient determined from groundwater level contour map for the July 2021 synoptic well gauging round (Figure E3-1).
3 - Hydraulic conductivity values are based on constant rate pumping test results from extraction wells described in Appendix E text.
4 - Attachment C does not include Perfluorohepthanoic 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 A5-1.
7 - Due to the length of Segment 8, PFAS concentrations reported for Segment 8 are based on the average concentrations for 2 wells in the Black Creek Aquifer along the segment to better represent the length.
ft - feet
ft/sec - feet per second
$ft^2$ - square feet
mg/sec - milligrams per second
ng/L - nanograms per liter

# TABLE E1-2
## AUGUST 2021 ONSITE GROUNDWATER PATHWAY SUPPORTING DATA
## Chemours Fayetteville Works, North Carolina

| | | | | | | | | | | | | Total Attachment C[4] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Segment | Well | Sample Date | Segment Length (ft) | Cross-sectional Area of Black Creek Aquifer[1] ($ft^2$) | Average Thickness of Black Creek Aquifer (ft) | Lower Groundwater Contour Elevation Difference[2] (ft) | Horizontal Distance Between Contours (Lower Elevation Difference)[2] (ft) | Upper Groundwater Contour Elevation Difference[2] (ft) | Horizontal Distance Between Contours (Upper Elevation Difference)[2] (ft) | Hydraulic Gradient (Lower Elevation Difference) (ft/ft) | Hydraulic Gradient (Upper Elevation Difference) (ft/ft) | Hydraulic Conductivity[3] (ft/sec) | Concentration[6] (ng/L) | Mass Loading Lower Bound (mg/sec) | Mass Loading Upper Bound (mg/sec) |
| 1 | PIW-1D | 8/26/2021 | 1,150 | 13,400 | 11.7 | 10 | 234.7 | 20 | 469.3 | 0.043 | 0.043 | 1.71E-04 | 40,000 | 0.1101 | 0.1102 |
| 2 | PIW-3D | 8/31/2021 | 873 | 11,010 | 12.6 | 10 | 324.9 | 20 | 529.9 | 0.031 | 0.038 | 1.71E-04 | 34,000 | 0.0557 | 0.0683 |
| 3 | LTW-02 | 8/31/2021 | 875 | 5,560 | 6.4 | 10 | 590.6 | 20 | 895.0 | 0.017 | 0.022 | 1.02E-04 | 43,000 | 0.0117 | 0.0154 |
| 4 | LTW-03 | 8/31/2021 | 729 | 2,800 | 3.8 | 10 | 626.6 | 20 | 915.4 | 0.016 | 0.022 | 1.02E-04 | 150,000 | 0.0195 | 0.0267 |
| 5 | PZ-22 | 8/30/2021 | 656 | 15,200 | 23.2 | 10 | 795.3 | 20 | 1,130.3 | 0.013 | 0.018 | 3.28E-04 | 170,000 | 0.3026 | 0.4259 |
| 6 | PIW-7D | 8/30/2021 | 524 | 16,000 | 30.5 | 10 | 812.2 | 20 | 1,088.9 | 0.012 | 0.018 | 3.28E-04 | 150,000 | 0.2738 | 0.4085 |
| 7 | LTW-05 | 8/26/2021 | 887 | 17,200 | 19.4 | 10 | 830.9 | 20 | 1,117.0 | 0.012 | 0.018 | 1.28E-04 | 170,000 | 0.1277 | 0.1899 |
| 8 | PW-11, PIW-10DR[7] | 7/23/2021 | 1,990 | 56,300 | 28.3 | 10 | 233.1 | 20 | 468.2 | 0.043 | 0.043 | 2.59E-04 | 235,000 | 4.1655 | 4.1478 |
| | | | | | | | | | | | | | **Total** | **5.07** | **5.39** |

***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 E2).

2 - Vertical and horizontal distances for hydraulic gradient determined from groundwater level contour map for the August 2021 synoptic well gauging round (Figure E3-2).

3 - Hydraulic conductivity values are based on constant rate pumping test results from extraction wells described in Appendix E text.

4 - Attachment C does not include Perfluorohepthanoic 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 A5-1.

7 - Due to the length of Segment 8, PFAS concentrations reported for Segment 8 are based on the average concentrations for 2 wells in the Black Creek Aquifer along the segment to better represent the length. PW-11 was not sampled during the August 2021 monitoring event; it was inaccessible since it is part of the Interim Black Creek Aquifer pumping program. PFAS analytical results reported in this table for Segment 8 are from the July 2021 monitoring event.

ft - feet

ft/sec - feet per second

$ft^2$ - square feet

mg/sec - milligrams per second

ng/L - nanograms per liter

**TABLE E1-2**
**AUGUST 2021 ONSITE GROUNDWATER PATHWAY SUPPORTING DATA**
**Chemours Fayetteville Works, North Carolina**

| | | | | | | | | | | | | | Total Table 3+ (17 Compounds)[5] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Segment** | **Well** | **Sample Date** | **Segment Length (ft)** | **Cross-sectional Area of Black Creek Aquifer[1] ($ft^2$)** | **Average Thickness of Black Creek Aquifer (ft)** | **Lower Groundwater Contour Elevation Difference[2] (ft)** | **Horizontal Distance Between Contours (Lower Elevation Difference)[2] (ft)** | **Upper Groundwater Contour Elevation Difference[2] (ft)** | **Horizontal Distance Between Contours (Upper Elevation Difference)[2] (ft)** | **Hydraulic Gradient (Lower Elevation Difference) (ft/ft)** | **Hydraulic Gradient (Upper Elevation Difference) (ft/ft)** | **Hydraulic Conductivity[3] (ft/sec)** | **Concentration[6] (ng/L)** | **Mass Loading Lower Bound (mg/sec)** | **Mass Loading Upper Bound (mg/sec)** |
| 1 | PIW-1D | 8/26/2021 | 1,150 | 13,400 | 11.7 | 10 | 234.7 | 20 | 469.3 | 0.043 | 0.043 | 1.71E-04 | 40,000 | 0.1101 | 0.1102 |
| 2 | PIW-3D | 8/31/2021 | 873 | 11,010 | 12.6 | 10 | 324.9 | 20 | 529.9 | 0.031 | 0.038 | 1.71E-04 | 34,000 | 0.0557 | 0.0683 |
| 3 | LTW-02 | 8/31/2021 | 875 | 5,560 | 6.4 | 10 | 590.6 | 20 | 895.0 | 0.017 | 0.022 | 1.02E-04 | 44,000 | 0.0119 | 0.0157 |
| 4 | LTW-03 | 8/31/2021 | 729 | 2,800 | 3.8 | 10 | 626.6 | 20 | 915.4 | 0.016 | 0.022 | 1.02E-04 | 150,000 | 0.0195 | 0.0267 |
| 5 | PZ-22 | 8/30/2021 | 656 | 15,200 | 23.2 | 10 | 795.3 | 20 | 1,130.3 | 0.013 | 0.018 | 3.28E-04 | 170,000 | 0.3026 | 0.4259 |
| 6 | PIW-7D | 8/30/2021 | 524 | 16,000 | 30.5 | 10 | 812.2 | 20 | 1,088.9 | 0.012 | 0.018 | 3.28E-04 | 150,000 | 0.2738 | 0.4085 |
| 7 | LTW-05 | 8/26/2021 | 887 | 17,200 | 19.4 | 10 | 830.9 | 20 | 1,117.0 | 0.012 | 0.018 | 1.28E-04 | 170,000 | 0.1277 | 0.1899 |
| 8 | PW-11, PIW-10DR[7] | 7/23/2021 | 1,990 | 56,300 | 28.3 | 10 | 233.1 | 20 | 468.2 | 0.043 | 0.043 | 2.59E-04 | 235,500 | 4.1744 | 4.1566 |
| | | | | | | | | | | | | | **Total** | **5.08** | **5.40** |

***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 E2).
2 - Vertical and horizontal distances for hydraulic gradient determined from groundwater level contour map for the August 2021 synoptic well gauging round (Figure E3-2).
3 - Hydraulic conductivity values are based on constant rate pumping test results from extraction wells described in Appendix E text.
4 - Attachment C does not include Perfluorohepthanoic 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 A5-1.
7 - Due to the length of Segment 8, PFAS concentrations reported for Segment 8 are based on the average concentrations for 2 wells in the Black Creek Aquifer along the segment to better represent the length. PW-11 was not sampled during the August 2021 monitoring event; it was inaccessible since it is part of the Interim Black Creek Aquifer pumping program. PFAS analytical results reported in this table for Segment 8 are from the July 2021 monitoring event.
ft - feet
ft/sec - feet per second
$ft^2$ - square feet
mg/sec - milligrams per second
ng/L - nanograms per liter

**TABLE E1-2**
**AUGUST 2021 ONSITE GROUNDWATER PATHWAY SUPPORTING DATA**
**Chemours Fayetteville Works, North Carolina**

| | | | | | | | | | | | | | Total Table 3+ (20 Compounds) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Segment** | **Well** | **Sample Date** | **Segment Length (ft)** | **Cross-sectional Area of Black Creek Aquifer[1] ($ft^2$)** | **Average Thickness of Black Creek Aquifer (ft)** | **Lower Groundwater Contour Elevation Difference[2] (ft)** | **Horizontal Distance Between Contours (Lower Elevation Difference)[2] (ft)** | **Upper Groundwater Contour Elevation Difference[2] (ft)** | **Horizontal Distance Between Contours (Upper Elevation Difference)[2] (ft)** | **Hydraulic Gradient (Lower Elevation Difference) (ft/ft)** | **Hydraulic Gradient (Upper Elevation Difference) (ft/ft)** | **Hydraulic Conductivity[3] (ft/sec)** | **Concentration[6] (ng/L)** | **Mass Loading Lower Bound (mg/sec)** | **Mass Loading Upper Bound (mg/sec)** |
| 1 | PIW-1D | 8/26/2021 | 1,150 | 13,400 | 11.7 | 10 | 234.7 | 20 | 469.3 | 0.043 | 0.043 | 1.71E-04 | 41,000 | 0.1129 | 0.1129 |
| 2 | PIW-3D | 8/31/2021 | 873 | 11,010 | 12.6 | 10 | 324.9 | 20 | 529.9 | 0.031 | 0.038 | 1.71E-04 | 34,000 | 0.0557 | 0.0683 |
| 3 | LTW-02 | 8/31/2021 | 875 | 5,560 | 6.4 | 10 | 590.6 | 20 | 895.0 | 0.017 | 0.022 | 1.02E-04 | 45,000 | 0.0122 | 0.0161 |
| 4 | LTW-03 | 8/31/2021 | 729 | 2,800 | 3.8 | 10 | 626.6 | 20 | 915.4 | 0.016 | 0.022 | 1.02E-04 | 160,000 | 0.0208 | 0.0285 |
| 5 | PZ-22 | 8/30/2021 | 656 | 15,200 | 23.2 | 10 | 795.3 | 20 | 1,130.3 | 0.013 | 0.018 | 3.28E-04 | 180,000 | 0.3205 | 0.4510 |
| 6 | PIW-7D | 8/30/2021 | 524 | 16,000 | 30.5 | 10 | 812.2 | 20 | 1,088.9 | 0.012 | 0.018 | 3.28E-04 | 150,000 | 0.2738 | 0.4085 |
| 7 | LTW-05 | 8/26/2021 | 887 | 17,200 | 19.4 | 10 | 830.9 | 20 | 1,117.0 | 0.012 | 0.018 | 1.28E-04 | 170,000 | 0.1277 | 0.1899 |
| 8 | PW-11, PIW-10DR[7] | 7/23/2021 | 1,990 | 56,300 | 28.3 | 10 | 233.1 | 20 | 468.2 | 0.043 | 0.043 | 2.59E-04 | 249,000 | 4.4137 | 4.3949 |
| | | | | | | | | | | | | | **Total** | **5.34** | **5.67** |

***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 E2).
2 - Vertical and horizontal distances for hydraulic gradient determined from groundwater level contour map for the August 2021 synoptic well gauging round (Figure E3-2).
3 - Hydraulic conductivity values are based on constant rate pumping test results from extraction wells described in Appendix E text.
4 - Attachment C does not include Perfluorohepthanoic 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 A5-1.
7 - Due to the length of Segment 8, PFAS concentrations reported for Segment 8 are based on the average concentrations for 2 wells in the Black Creek Aquifer along the segment to better represent the length. PW-11 was not sampled during the August 2021 monitoring event; it was inaccessible since it is part of the Interim Black Creek Aquifer pumping program. PFAS analytical results reported in this table for Segment 8 are from the July 2021 monitoring event.
ft - feet
ft/sec - feet per second
$ft^2$ - square feet
mg/sec - milligrams per second
ng/L - nanograms per liter

# TABLE E1-3
## SEPTEMBER 2021 ONSITE GROUNDWATER PATHWAY SUPPORTING DATA
## Chemours Fayetteville Works, North Carolina

| | | | | | | | | | | | | Total Attachment C[4] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Segment** | **Well** | **Sample Date** | **Segment Length (ft)** | **Cross-sectional Area of Black Creek Aquifer[1] ($ft^2$)** | **Average Thickness of Black Creek Aquifer (ft)** | **Lower Groundwater Contour Elevation Difference[2] (ft)** | **Horizontal Distance Between Contours (Lower Elevation Difference) [2] (ft)** | **Upper Groundwater Contour Elevation Difference[2] (ft)** | **Horizontal Distance Between Contours (Upper Elevation Difference) [2] (ft)** | **Hydraulic Gradient (Lower Elevation Difference) (ft/ft)** | **Hydraulic Gradient (Upper Elevation Difference) (ft/ft)** | **Hydraulic Conductivity[3] (ft/sec)** | **Concentration[6] (ng/L)** | **Mass Loading Lower Bound (mg/sec)** | **Mass Loading Upper Bound (mg/sec)** |
| 1 | PIW-1D | 9/20/2021 | 1,150 | 13,400 | 11.7 | 10 | 140.4 | 20 | 320.9 | 0.071 | 0.062 | 1.71E-04 | 78,000 | 0.3591 | 0.3142 |
| 2 | PIW-3D | 9/29/2021 | 873 | 11,010 | 12.6 | 10 | 369.5 | 20 | 601.8 | 0.027 | 0.033 | 1.71E-04 | 37,000 | 0.0533 | 0.0654 |
| 3 | LTW-02 | 9/30/2021 | 875 | 5,560 | 6.4 | 10 | 651.8 | 20 | 1,028.5 | 0.015 | 0.019 | 1.02E-04 | 49,000 | 0.0120 | 0.0153 |
| 4 | LTW-03 | 9/28/2021 | 729 | 2,800 | 3.8 | 10 | 692.8 | 20 | 935.6 | 0.014 | 0.021 | 1.02E-04 | 170,000 | 0.0200 | 0.0296 |
| 5 | PZ-22 | 9/29/2021 | 656 | 15,200 | 23.2 | 10 | 840.1 | 20 | 1,100.0 | 0.012 | 0.018 | 3.28E-04 | 170,000 | 0.2865 | 0.4376 |
| 6 | PIW-7D | 9/29/2021 | 524 | 16,000 | 30.5 | 10 | 859.8 | 20 | 1,096.2 | 0.012 | 0.018 | 3.28E-04 | 160,000 | 0.2759 | 0.4328 |
| 7 | LTW-05 | 9/29/2021 | 887 | 17,200 | 19.4 | 10 | 865.9 | 20 | 1,135.7 | 0.012 | 0.018 | 1.28E-04 | 190,000 | 0.1369 | 0.2088 |
| 8 | PW-11, PIW-10DR[7] | 7/23/2021 | 1,990 | 56,300 | 28.3 | 10 | 315.7 | 20 | 494.6 | 0.032 | 0.040 | 2.59E-04 | 235,000 | 3.0755 | 3.9264 |
| | | | | | | | | | | | | | **Total** | **4.22** | **5.43** |

***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 E2).

2 - Vertical and horizontal distances for hydraulic gradient determined from groundwater level contour map for the September 2021 synoptic well gauging round (Figure E3-3).

3 - Hydraulic conductivity values are based on constant rate pumping test results from extraction wells described in Appendix E text.

4 - Attachment C does not include Perfluorohepthanoic 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 A5-1.

7 - Due to the length of Segment 8, PFAS concentrations reported for Segment 8 are based on the average concentrations for 2 wells in the Black Creek Aquifer along the segment to better represent the length. PW-11 was not sampled during the September 2021 monitoring event; it was inaccessible since it is part of the Interim Black Creek Aquifer pumping program. PFAS analytical results reported in this table for Segment 8 are from the July 2021 monitoring event.

ft - feet

ft/sec - feet per second

$ft^2$ - square feet

mg/sec - milligrams per second

ng/L - nanograms per liter

**TABLE E1-3**
**SEPTEMBER 2021 ONSITE GROUNDWATER PATHWAY SUPPORTING DATA**
**Chemours Fayetteville Works, North Carolina**

| | | | | | | | | | | | | Total Table 3+ (17 Compounds)[5] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Segment** | **Well** | **Sample Date** | **Segment Length (ft)** | **Cross-sectional Area of Black Creek Aquifer[1] ($ft^2$)** | **Average Thickness of Black Creek Aquifer (ft)** | **Lower Groundwater Contour Elevation Difference[2] (ft)** | **Horizontal Distance Between Contours (Lower Elevation Difference)[2] (ft)** | **Upper Groundwater Contour Elevation Difference[2] (ft)** | **Horizontal Distance Between Contours (Upper Elevation Difference)[2] (ft)** | **Hydraulic Gradient (Lower Elevation Difference) (ft/ft)** | **Hydraulic Gradient (Upper Elevation Difference) (ft/ft)** | **Hydraulic Conductivity[3] (ft/sec)** | **Concentration[6] (ng/L)** | **Mass Loading Lower Bound (mg/sec)** | **Mass Loading Upper Bound (mg/sec)** |
| 1 | PIW-1D | 9/20/2021 | 1,150 | 13,400 | 11.7 | 10 | 140.4 | 20 | 320.9 | 0.071 | 0.062 | 1.71E-04 | 78,000 | 0.3591 | 0.3142 |
| 2 | PIW-3D | 9/29/2021 | 873 | 11,010 | 12.6 | 10 | 369.5 | 20 | 601.8 | 0.027 | 0.033 | 1.71E-04 | 37,000 | 0.0533 | 0.0654 |
| 3 | LTW-02 | 9/30/2021 | 875 | 5,560 | 6.4 | 10 | 651.8 | 20 | 1,028.5 | 0.015 | 0.019 | 1.02E-04 | 50,000 | 0.0123 | 0.0156 |
| 4 | LTW-03 | 9/28/2021 | 729 | 2,800 | 3.8 | 10 | 692.8 | 20 | 935.6 | 0.014 | 0.021 | 1.02E-04 | 170,000 | 0.0200 | 0.0296 |
| 5 | PZ-22 | 9/29/2021 | 656 | 15,200 | 23.2 | 10 | 840.1 | 20 | 1,100.0 | 0.012 | 0.018 | 3.28E-04 | 170,000 | 0.2865 | 0.4376 |
| 6 | PIW-7D | 9/29/2021 | 524 | 16,000 | 30.5 | 10 | 859.8 | 20 | 1,096.2 | 0.012 | 0.018 | 3.28E-04 | 160,000 | 0.2759 | 0.4328 |
| 7 | LTW-05 | 9/29/2021 | 887 | 17,200 | 19.4 | 10 | 865.9 | 20 | 1,135.7 | 0.012 | 0.018 | 1.28E-04 | 190,000 | 0.1369 | 0.2088 |
| 8 | PW-11, PIW-10DR[7] | 7/23/2021 | 1,990 | 56,300 | 28.3 | 10 | 315.7 | 20 | 494.6 | 0.032 | 0.040 | 2.59E-04 | 235,500 | 3.0821 | 3.9348 |
| | | | | | | | | | | | | | **Total** | **4.23** | **5.44** |

***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 E2).
2 - Vertical and horizontal distances for hydraulic gradient determined from groundwater level contour map for the September 2021 synoptic well gauging round (Figure E3-3).
3 - Hydraulic conductivity values are based on constant rate pumping test results from extraction wells described in Appendix E text.
4 - Attachment C does not include Perfluorohepthanoic 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 A5-1.
7 - Due to the length of Segment 8, PFAS concentrations reported for Segment 8 are based on the average concentrations for 2 wells in the Black Creek Aquifer along the segment to better represent the length. PW-11 was not sampled during the September 2021 monitoring event; it was inaccessible since it is part of the Interim Black Creek Aquifer pumping program. PFAS analytical results reported in this table for Segment 8 are from the July 2021 monitoring event.
ft - feet
ft/sec - feet per second
$ft^2$ - square feet
mg/sec - milligrams per second
ng/L - nanograms per liter

**TABLE E1-3**
**SEPTEMBER 2021 ONSITE GROUNDWATER PATHWAY SUPPORTING DATA**
**Chemours Fayetteville Works, North Carolina**

| | | | | | | | | | | | | Total Table 3+ (20 Compounds) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Segment** | **Well** | **Sample Date** | **Segment Length (ft)** | **Cross-sectional Area of Black Creek Aquifer[1] ($ft^2$)** | **Average Thickness of Black Creek Aquifer (ft)** | **Lower Groundwater Contour Elevation Difference[2] (ft)** | **Horizontal Distance Between Contours (Lower Elevation Difference)[2] (ft)** | **Upper Groundwater Contour Elevation Difference[2] (ft)** | **Horizontal Distance Between Contours (Upper Elevation Difference)[2] (ft)** | **Hydraulic Gradient (Lower Elevation Difference) (ft/ft)** | **Hydraulic Gradient (Upper Elevation Difference) (ft/ft)** | **Hydraulic Conductivity[3] (ft/sec)** | **Concentration[6] (ng/L)** | **Mass Loading Lower Bound (mg/sec)** | **Mass Loading Upper Bound (mg/sec)** |
| 1 | PIW-1D | 9/20/2021 | 1,150 | 13,400 | 11.7 | 10 | 140.4 | 20 | 320.9 | 0.071 | 0.062 | 1.71E-04 | 79,000 | 0.3637 | 0.3182 |
| 2 | PIW-3D | 9/29/2021 | 873 | 11,010 | 12.6 | 10 | 369.5 | 20 | 601.8 | 0.027 | 0.033 | 1.71E-04 | 38,000 | 0.0547 | 0.0672 |
| 3 | LTW-02 | 9/30/2021 | 875 | 5,560 | 6.4 | 10 | 651.8 | 20 | 1,028.5 | 0.015 | 0.019 | 1.02E-04 | 51,000 | 0.0125 | 0.0159 |
| 4 | LTW-03 | 9/28/2021 | 729 | 2,800 | 3.8 | 10 | 692.8 | 20 | 935.6 | 0.014 | 0.021 | 1.02E-04 | 170,000 | 0.0200 | 0.0296 |
| 5 | PZ-22 | 9/29/2021 | 656 | 15,200 | 23.2 | 10 | 840.1 | 20 | 1,100.0 | 0.012 | 0.018 | 3.28E-04 | 170,000 | 0.2865 | 0.4376 |
| 6 | PIW-7D | 9/29/2021 | 524 | 16,000 | 30.5 | 10 | 859.8 | 20 | 1,096.2 | 0.012 | 0.018 | 3.28E-04 | 160,000 | 0.2759 | 0.4328 |
| 7 | LTW-05 | 9/29/2021 | 887 | 17,200 | 19.4 | 10 | 865.9 | 20 | 1,135.7 | 0.012 | 0.018 | 1.28E-04 | 190,000 | 0.1369 | 0.2088 |
| 8 | PW-11, PIW-10DR[7] | 7/23/2021 | 1,990 | 56,300 | 28.3 | 10 | 315.7 | 20 | 494.6 | 0.032 | 0.040 | 2.59E-04 | 249,000 | 3.2587 | 4.1603 |
| | | | | | | | | | | | | | **Total** | **4.41** | **5.67** |

***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 E2).
2 - Vertical and horizontal distances for hydraulic gradient determined from groundwater level contour map for the September 2021 synoptic well gauging round (Figure E3-3).
3 - Hydraulic conductivity values are based on constant rate pumping test results from extraction wells described in Appendix E text.
4 - Attachment C does not include Perfluorohepthanoic 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 A5-1.
7 - Due to the length of Segment 8, PFAS concentrations reported for Segment 8 are based on the average concentrations for 2 wells in the Black Creek Aquifer along the segment to better represent the length. PW-11 was not sampled during the September 2021 monitoring event; it was inaccessible since it is part of the Interim Black Creek Aquifer pumping program. PFAS analytical results reported in this table for Segment 8 are from the July 2021 monitoring event.
ft - feet
ft/sec - feet per second
$ft^2$ - square feet
mg/sec - milligrams per second
ng/L - nanograms per liter

**TABLE E2-1**
**JULY 2021 ONSITE GROUNDWATER FLOW RATE**
**Chemours Fayetteville Works, North Carolina**

| Segment | Cross-sectional Area of Black Creek Aquifer[1] ($ft^2$) | Hydraulic Gradient (Lower Elevation Difference)[1,2] (ft/ft) | Hydraulic Gradient (Upper Elevation Difference)[1,2] (ft/ft) | Hydraulic Conductivity (ft/sec)[1] | Flow Lower Bound ($ft^3$/sec) | Flow Upper Bound ($ft^3$/sec) | Flow Lower Bound (gal/day) | Flow Upper Bound (gal /day) |
|---|---|---|---|---|---|---|---|---|
| 1 | 13,400 | 0.057 | 0.052 | 1.71E-04 | 1.30E-01 | 1.19E-01 | 83,852 | 76,637 |
| 2 | 11,010 | 0.028 | 0.035 | 1.71E-04 | 5.20E-02 | 6.54E-02 | 33,594 | 42,262 |
| 3 | 5,560 | 0.017 | 0.022 | 1.02E-04 | 9.74E-03 | 1.25E-02 | 6,292 | 8,063 |
| 4 | 2,800 | 0.018 | 0.023 | 1.02E-04 | 5.13E-03 | 6.73E-03 | 3,313 | 4,347 |
| 5 | 15,200 | 0.013 | 0.018 | 3.28E-04 | 6.43E-02 | 8.87E-02 | 41,535 | 57,352 |
| 6 | 16,000 | 0.015 | 0.019 | 3.28E-04 | 7.64E-02 | 9.99E-02 | 49,388 | 64,595 |
| 7 | 17,200 | 0.013 | 0.018 | 1.28E-04 | 2.78E-02 | 3.86E-02 | 17,951 | 24,970 |
| 8 | 56,300 | 0.026 | 0.031 | 2.59E-04 | 3.79E-01 | 4.53E-01 | 245,210 | 292,496 |
| | | | | | **0.744** | **0.883** | **481,135** | **570,722** |

***Notes***

1 - Supporting data for cross-sectional area, hydraulic gradient, and hydraulic conductivity provided in Table E1-1.

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

ft - feet

$ft^2$ - square feet

ft/sec - feet per second

$ft^3$/sec - cubic feet per second

gal/day - gallons per day

**TABLE E2-2**
**AUGUST 2021 ONSITE GROUNDWATER FLOW RATE**
**Chemours Fayetteville Works, North Carolina**

| Segment | Cross-sectional Area of Black Creek Aquifer[1] ($ft^2$) | Hydraulic Gradient (Lower Elevation Difference)[1,2] (ft/ft) | Hydraulic Gradient (Upper Elevation Difference)[1,2] (ft/ft) | Hydraulic Conductivity (ft/sec)[1] | Flow Lower Bound ($ft^3$/sec) | Flow Upper Bound ($ft^3$/sec) | Flow Lower Bound (gal/day) | Flow Upper Bound (gal /day) |
|---|---|---|---|---|---|---|---|---|
| 1 | 13,400 | 0.043 | 0.043 | 1.71E-04 | 9.72E-02 | 9.73E-02 | 62,850 | 62,873 |
| 2 | 11,010 | 0.031 | 0.038 | 1.71E-04 | 5.78E-02 | 7.09E-02 | 37,371 | 45,819 |
| 3 | 5,560 | 0.017 | 0.022 | 1.02E-04 | 9.57E-03 | 1.26E-02 | 6,188 | 8,167 |
| 4 | 2,800 | 0.016 | 0.022 | 1.02E-04 | 4.59E-03 | 6.29E-03 | 2,970 | 4,066 |
| 5 | 15,200 | 0.013 | 0.018 | 3.28E-04 | 6.29E-02 | 8.85E-02 | 40,634 | 57,183 |
| 6 | 16,000 | 0.012 | 0.018 | 3.28E-04 | 6.45E-02 | 9.62E-02 | 41,669 | 62,159 |
| 7 | 17,200 | 0.012 | 0.018 | 1.28E-04 | 2.65E-02 | 3.94E-02 | 17,140 | 25,497 |
| 8 | 56,300 | 0.043 | 0.043 | 2.59E-04 | 6.26E-01 | 6.23E-01 | 404,581 | 402,856 |
| | | | | | **0.949** | **1.035** | **613,403** | **668,620** |

***Notes***

1 - Supporting data for cross-sectional area, hydraulic gradient, and hydraulic conductivity provided in Table E1-2.

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

ft - feet

$ft^2$ - square feet

ft/sec - feet per second

$ft^3$/sec - cubic feet per second

gal/day - gallons per day

**TABLE E2-3**
**SEPTEMBER 2021 ONSITE GROUNDWATER FLOW RATE**
**Chemours Fayetteville Works, North Carolina**

| Segment | Cross-sectional Area of Black Creek Aquifer[1] ($ft^2$) | Hydraulic Gradient (Lower Elevation Difference)[1,2] (ft/ft) | Hydraulic Gradient (Upper Elevation Difference)[1,2] (ft/ft) | Hydraulic Conductivity (ft/sec)[1] | Flow Lower Bound ($ft^3$/sec) | Flow Upper Bound ($ft^3$/sec) | Flow Lower Bound (gal/day) | Flow Upper Bound (gal /day) |
|---|---|---|---|---|---|---|---|---|
| 1 | 13,400 | 0.071 | 0.062 | 1.71E-04 | 1.63E-01 | 1.42E-01 | 105,089 | 91,936 |
| 2 | 11,010 | 0.027 | 0.033 | 1.71E-04 | 5.08E-02 | 6.24E-02 | 32,856 | 40,344 |
| 3 | 5,560 | 0.015 | 0.019 | 1.02E-04 | 8.68E-03 | 1.10E-02 | 5,607 | 7,107 |
| 4 | 2,800 | 0.014 | 0.021 | 1.02E-04 | 4.16E-03 | 6.15E-03 | 2,686 | 3,978 |
| 5 | 15,200 | 0.012 | 0.018 | 3.28E-04 | 5.95E-02 | 9.09E-02 | 38,467 | 58,754 |
| 6 | 16,000 | 0.012 | 0.018 | 3.28E-04 | 6.09E-02 | 9.55E-02 | 39,359 | 61,746 |
| 7 | 17,200 | 0.012 | 0.018 | 1.28E-04 | 2.54E-02 | 3.88E-02 | 16,445 | 25,079 |
| 8 | 56,300 | 0.032 | 0.040 | 2.59E-04 | 4.62E-01 | 5.90E-01 | 298,711 | 381,356 |
| | | | | | **0.834** | **1.037** | **539,221** | **670,299** |

***Notes***

1 - Supporting data for cross-sectional area, hydraulic gradient, and hydraulic conductivity provided in Table E1-3.

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

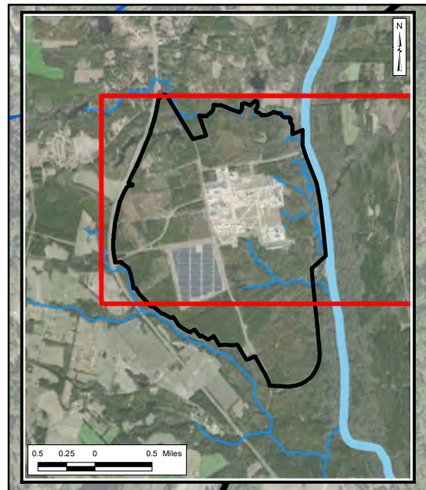
ft - feet

$ft^2$ - square feet

ft/sec - feet per second

$ft^3$/sec - cubic feet per second

gal/day - gallons per day




Willis Creek

PIW-1S
PIW-1D
EW-1
PIW-3D
Seep A
EW-4
Seep B
PZ-22
EW-5
PIW-7D
PIW-7S
EW-2
Seep C
Seep D
EW-3
PW-11
Old Outfall 002

Segment 1
Segment 2
LTW-02
Segment 3
LTW-03
Segment 4
Segment 5
Segment 6
LTW-05
Segment 7
Segment 8

Cape Fear River

N

Legend

- Floodplain Deposits
- Black Creek Aquifer
- Extraction Well
- Observed Seep
- Nearby Tributary
- Site Boundary
- Transect Line

Notes:

1. Due to the scale of the map, pairs of wells that are in close proximity have been offset for visibility. Therefore, the placement of these wells on this map do not reflect their true geographic coordinates.
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.
3. Constant rate tests conducted at extraction wells were used to calculate hydraulic conductivity for nearby segments as shown in Table E1-1 to E1-3 and described in the Appendix E.
4. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

1,000 500 0 1,000 Feet

**Black Creek Aquifer Segments for Groundwater Pathway**

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

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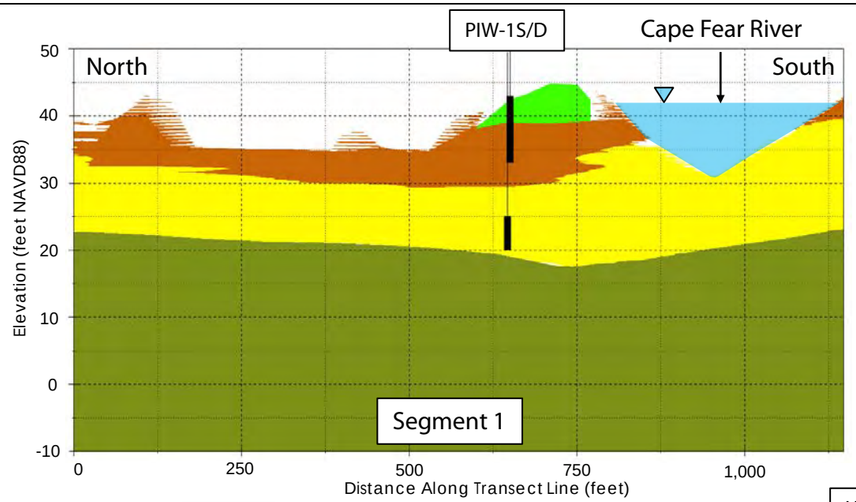
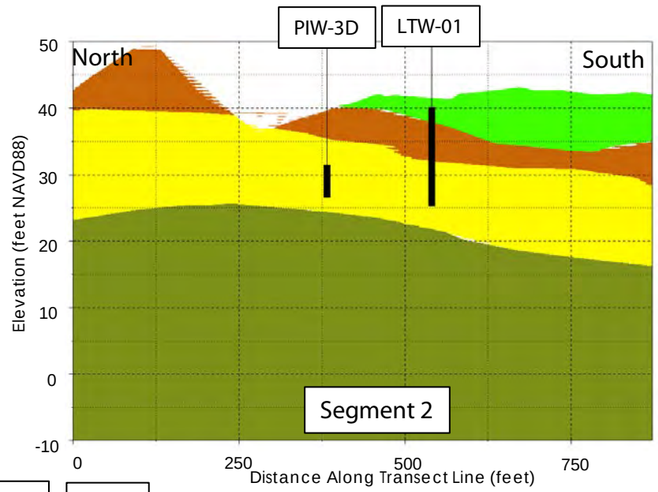
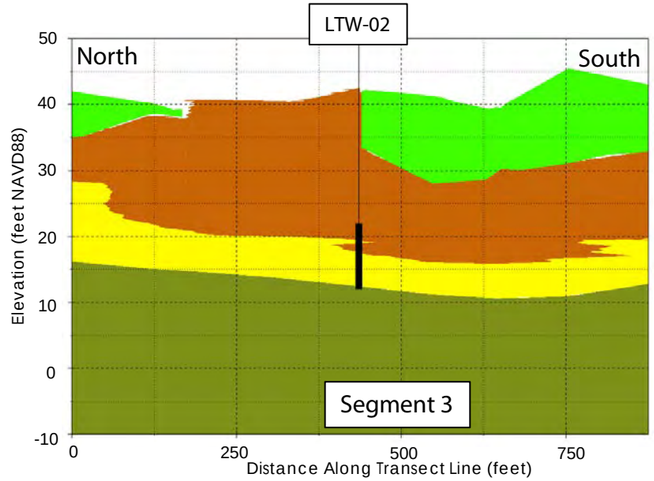
Figure **E1**

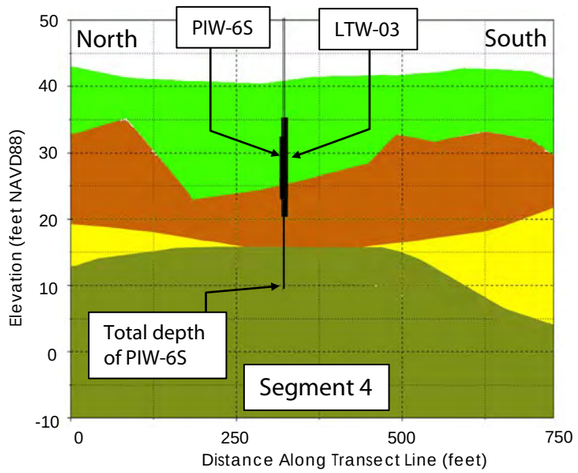
Path: \\gwlph-01\dat#PRJ\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_Black Creek Aquifer Segments for Groundwater Pathway.mxd Last Revised: 9/13/2021 Author: NBarNatoun

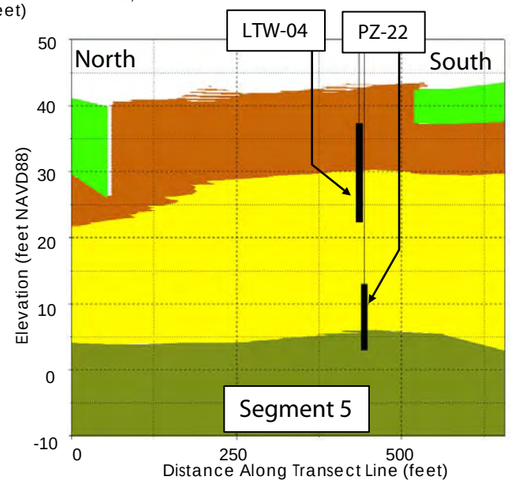
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet; Units in Foot US

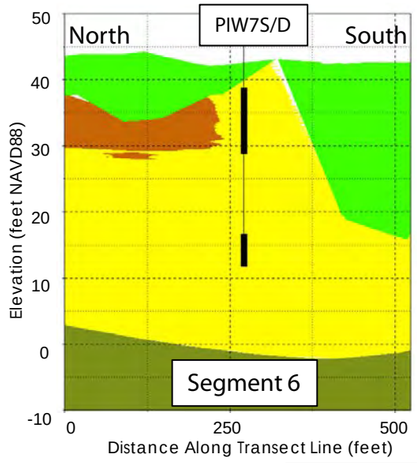


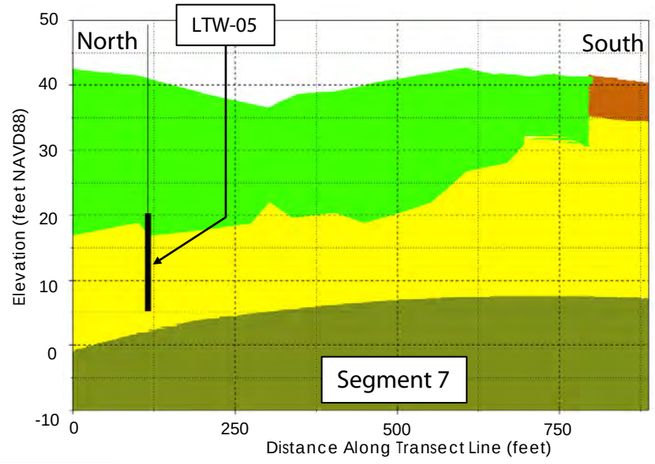



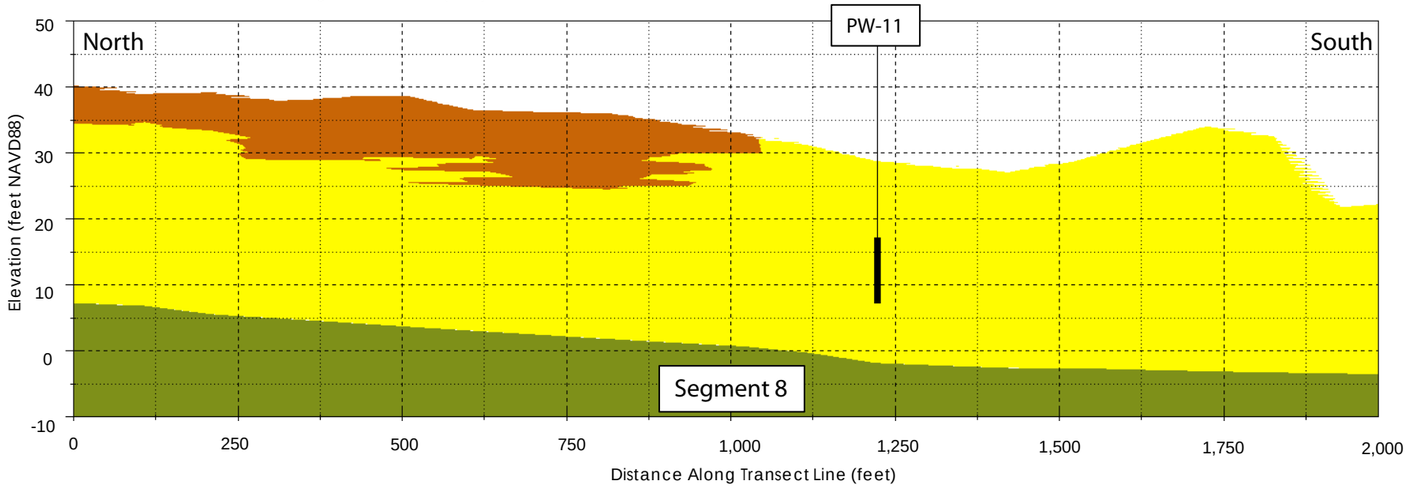



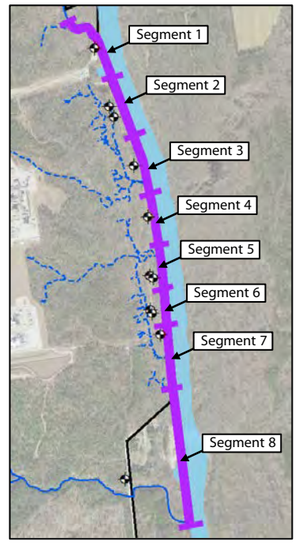




**Legend**

Well screen[1]

**Units[2]**

- 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.

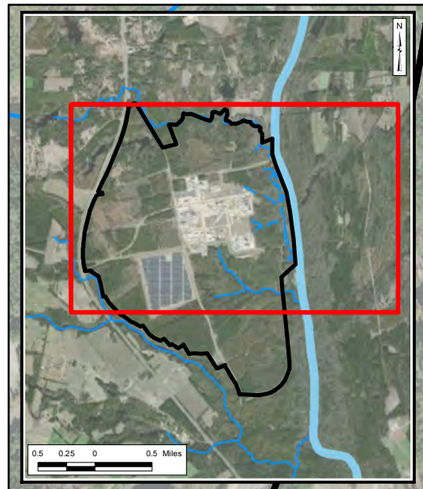
**Cross-Sections Along Cape Fear River Transect Line**
Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh | December 2021

Figure **E2**




Willis Creek

PW-09 47.88
PIW-11 45.32
PIW-12 34.64
PIW-13 34.97
SMW-12 34.76
PIW-14 35.8
PIW-15 33.8
PIW-1S 32.83
PIW-1D 33.65
OW-1 60.53
OW-10 60.28
EW-1 60.05
PIW-2D 60.18
PIW-3D 36.22
LTW-01 36.39
SMW-03B 95.5
BCA-01 86.98
PW-12 94.17
PW-15R 78.17
LTW-02 42.38
PIW-4D 42.71
BCA-03R 102.58
EW-4 50.44
OW-2 50.16
OW-3 49.96
PW-10R 49.15
LTW-03 39.16
PIW-6S 39.28
PW-13 119.56
PW-14 86.36
PZ-22 43.6
LTW-04 42.85
EW-5 45.38
OW-7 45.34
OW-8 44.57
PIW-7S 42.82
PIW-7D 43.65
LTW-05 41.62
PIW-16D 131.09
BCA-02 75.5
PIW-8D 41.65
PIW-9D 42.16
EW-2 45.29
OW-6 42.81
BCA-04 123.89
PIW-10DR 62.13
EW-3 62
OW-4 62.01
OW-5 62.21
OW-9 62.17
PW-11 42.5
Old Outfall 002

40 50 60 70 80 90

Cape Fear River

Segment 1 0.057 0.052
Segment 2 0.028 0.035
Segment 3 0.017 0.022
Segment 4 0.018 0.023
Segment 5 0.013 0.018
Segment 6 0.015 0.019
Segment 7 0.013 0.018
Segment 8 0.026 0.031

Seep A
Seep B
Seep C
Seep D

N

Legend

- Black Creek
- 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 1 — Segment Number
0.057 — Hydraulic Gradient (ft/ft) based on lower elevation difference
0.052 — Hydraulic Gradient (ft/ft) based on upper elevation difference

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

1. Depth to water measurements collected on July 6 and July 7, 2021 were used to generate contours.
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 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 E1-1.
5. The outline of Cape Fear River is approximate and is based on open data from ArcGIS Online and North Carolina Department of Environmental Quality Online GIS (MajorHydro shapefile).
6. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

1,000 500 0 1,000 Feet

# Groundwater Elevation Map and Hydraulic Gradients - July 2021

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

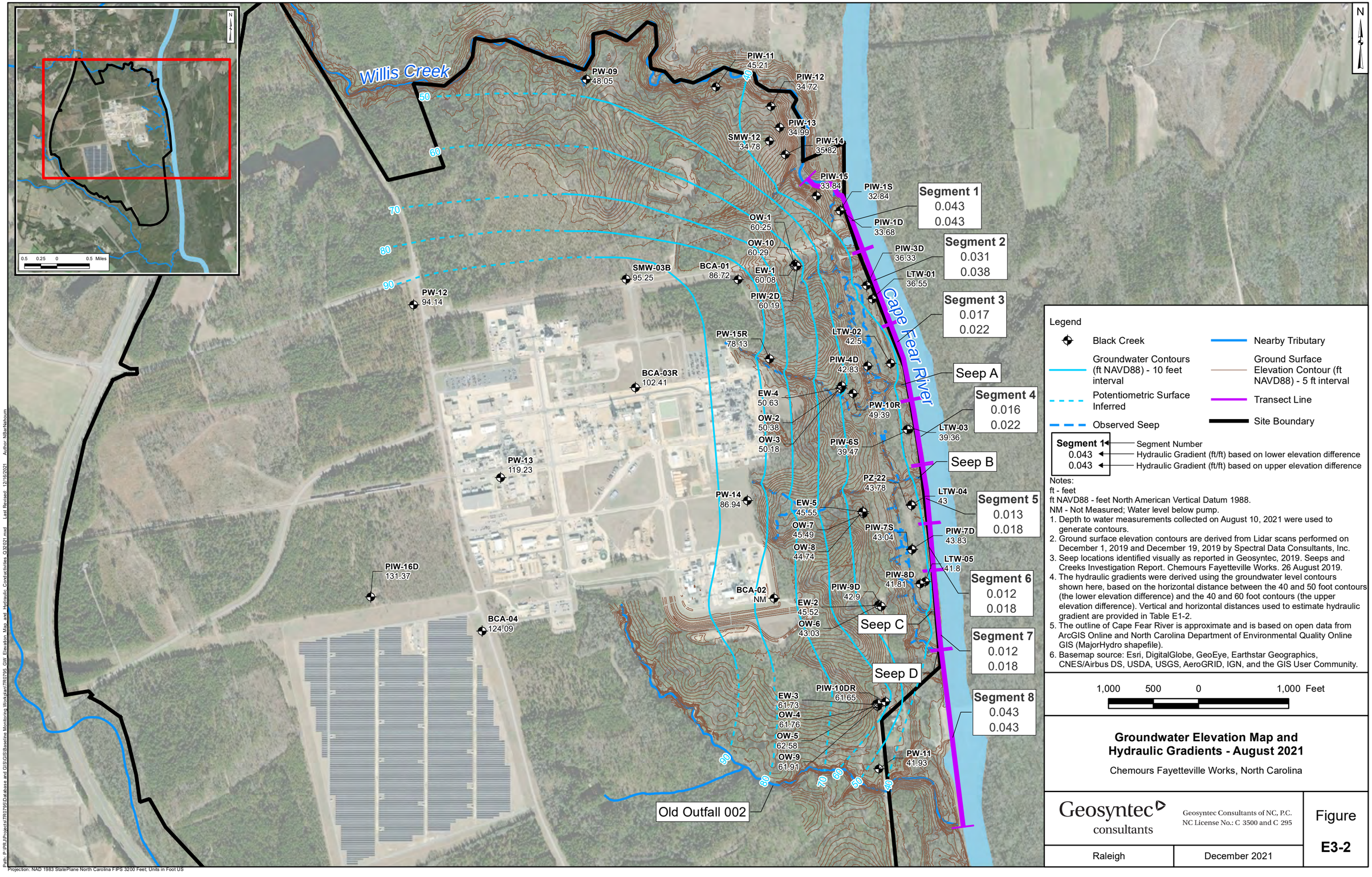
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | December 2021

Figure E3-1

Path: P:\PR\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_GW_Elevation_Map_and_Hydraulic_Conductivities_Q32021.mxd Last Revised: 12/16/2021 Author: NBarNahoum

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




Legend

- Black Creek
- 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 1**
0.043 — Segment Number
0.043 — Hydraulic Gradient (ft/ft) based on lower elevation difference
0.043 — Hydraulic Gradient (ft/ft) based on upper elevation difference

Notes:
ft - feet
ft NAVD88 - feet North American Vertical Datum 1988.
NM - Not Measured; Water level below pump.

1. Depth to water measurements collected on August 10, 2021 were used to generate contours.
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 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 E1-2.
5. The outline of Cape Fear River is approximate and is based on open data from ArcGIS Online and North Carolina Department of Environmental Quality Online GIS (MajorHydro shapefile).
6. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

1,000 500 0 1,000 Feet

# Groundwater Elevation Map and Hydraulic Gradients - August 2021

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

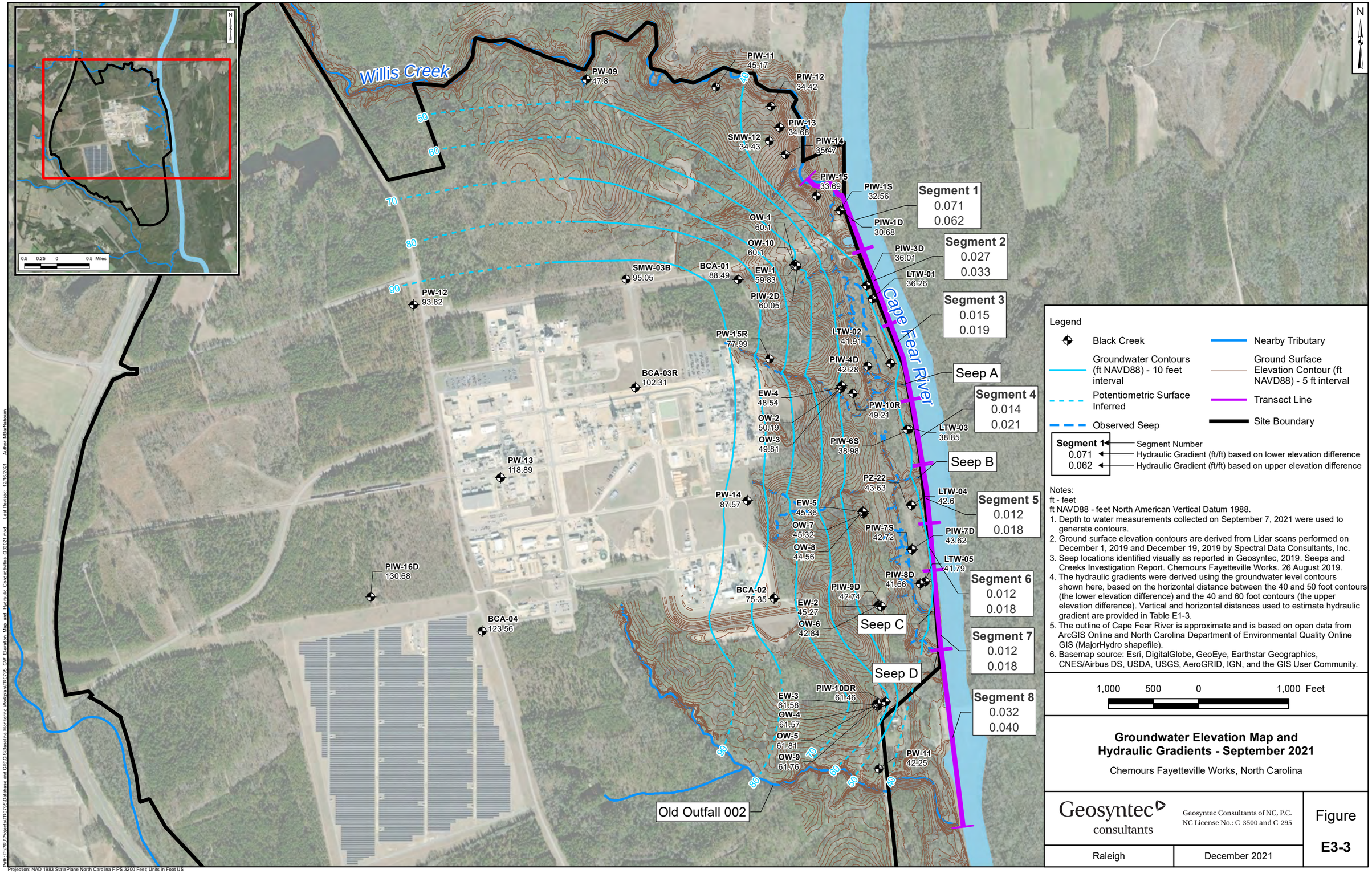
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | December 2021

Figure E3-2

Path: P:\PR\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_GW_Elevation_Map_and_Hydraulic_Conductivities_Q32021.mxd Last Revised: 12/16/2021 Author: NBarNahoum

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




Legend

- Black Creek
- 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 1
0.071 — Hydraulic Gradient (ft/ft) based on lower elevation difference
0.062 — Hydraulic Gradient (ft/ft) based on upper elevation difference
Segment Number

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

1. Depth to water measurements collected on September 7, 2021 were used to generate contours.
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 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 E1-3.
5. The outline of Cape Fear River is approximate and is based on open data from ArcGIS Online and North Carolina Department of Environmental Quality Online GIS (MajorHydro shapefile).
6. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

1,000 500 0 1,000 Feet

# Groundwater Elevation Map and Hydraulic Gradients - September 2021

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

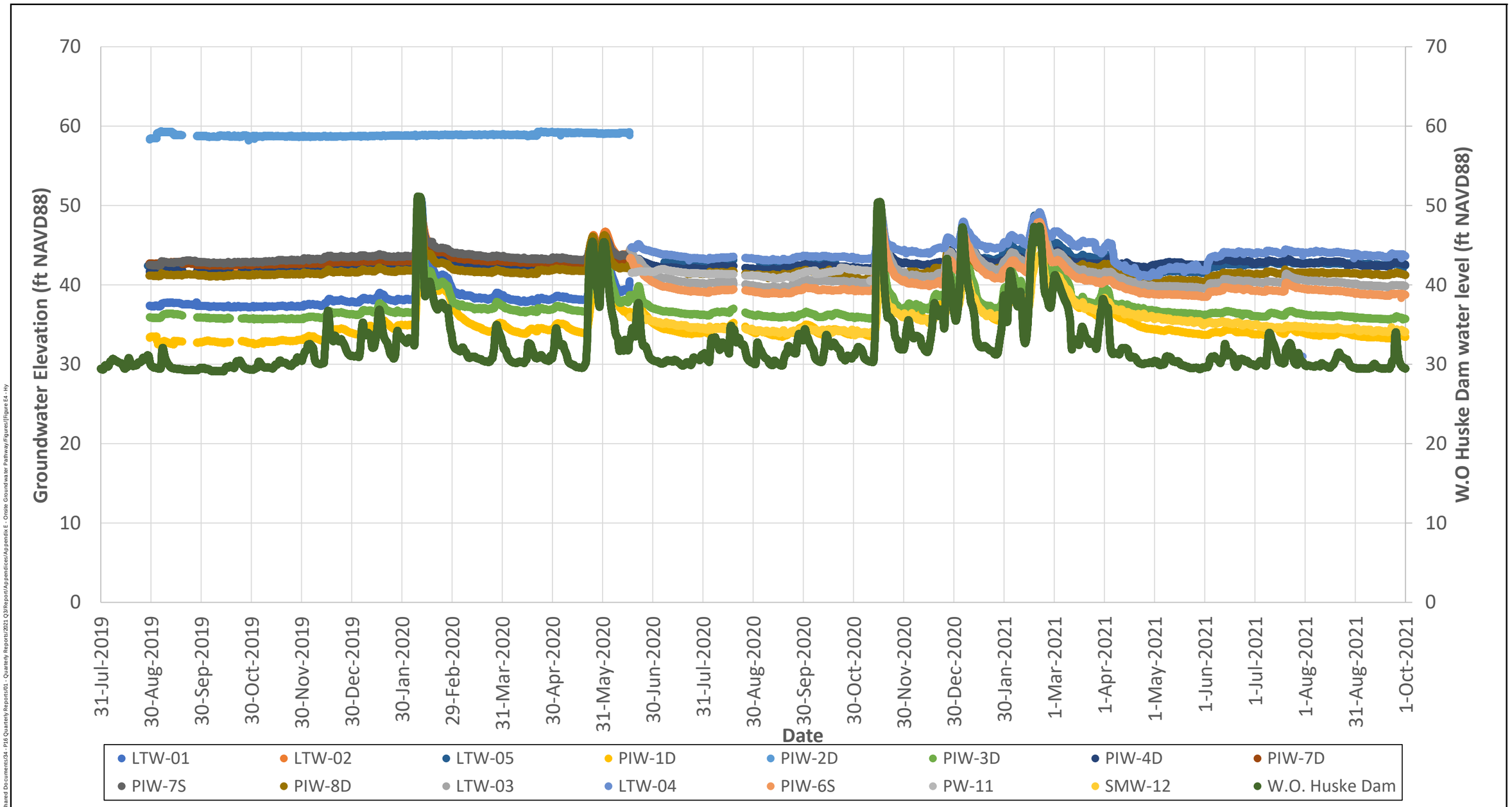
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | December 2021

Figure E3-3

Path: P:\PR_P\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_GW_Elevation_Map_and_Hydraulic_Conductivities_Q32021.mxd Last Revised: 12/16/2021 Author: NBarNahoum

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




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

**Hydrograph for Select Onsite Groundwater Monitoring Wells and W.O Huske Dam**
Chemours Fayetteville Works, North Carolina

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

Raleigh | December 2021

Figure
**E4**

# Appendix F

# Supporting Calculations – Direct Aerial Deposition on Cape Fear River

# APPENDIX F

# SUPPORTING CALCULATIONS – DIRECT AERIAL DEPOSITION ON CAPE FEAR RIVER

## Introduction and Objective

Nine pathways (main report Table 7) 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 F1, the HFPO-DA air loading data (micrograms per meters squared [µg/m$^2$]) provided from ERM (2018) was used to calculate the net hourly deposition rate (nanograms per meters squared per hour [ng/m$^2$/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 (M L$^{-2}$ T$^{-1}$), typically in ng/m$^2$/hr;

$ML_{AIR}$ = Air mass loading of HFPO-DA with units of mass per area (M L$^{-2}$), typically µg/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 (18) sections (Figure F1) provided from FEMA (2007) were selected along the Cape Fear River to measure the average river width (m). As depicted in Figures F2 through F6, sections along the Cape Fear River with HFPO-DA concentrations contours ranging from 40 to 640 µg/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 F2 and section lengths from Figures F2 through F6 were used to calculate section areas ($m^2$) as described in Equation 2 below:

***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 µg/$m^2$ (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 F1); 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 (2021) and the calculated river cross sectional area. Section lengths will be used to calculate HFPO-DA travel time based on the river velocities in Tables F3-1 to F3-3. The combined deposition rate (ng/$m^2$/hr) from Table F1, 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***

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

where,

$MD_{HFPO-}$ = 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 µg/$m^2$;

*S* = total number of sections along the Cape Fear River with HFPO-DA concentrations contours ranging from 40 to 640 µg/$m^2$, 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 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 F7). A scaling factor (Table F4) was used to estimate mass discharge of Total PFAS compounds to the Cape Fear River as shown in Equation 4. Tables F5-1 to F5-3 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***

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

where,

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

$MD_{HFPO-}$ = 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, 2021. USGS 02105500 Cape Fear River at Wilm O Huske Lock near Tarheel, NC. Available at: https://waterdata.usgs.gov/nwis/uv?site_no=02105500

**TABLE F1**
**NET HOURLY HFPO-DA DEPOSITION RATE**
**Chemours Fayetteville Works, North Carolina**

| Air Loading ($\mu g/m^2$) | Air Loading ($ng/m^2$) | Time (year) | Time (hour) | Net Hourly Deposition Rate ($ng/m^2/hr$) |
|---|---|---|---|---|
| 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 F2 through F6.
3. Net hourly deposition rates are used in the mass discharge calculations, Tables F5-1 to F5-3.

***Abbreviations:***

$\mu g/m^2$: micrograms per meter square.

ng /L: nanograms per liter.

$ng/m^2/hr$: nanograms per meter square per hour.

**TABLE F2**
**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 F2**
**ESTIMATION OF CAPE FEAR RIVER AVERAGE WIDTH**
**Chemours Fayetteville Works, North Carolina**

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

***Notes:***
*Cross sections locations are shown in Figure F1.
**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 F3-1**
**SUMMARY OF FLOW IN CAPE FEAR RIVER AT WILM O'HUSKE LOCK NR TARHEEL, NC - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | USGS Reported Average Discharge[1] (cfs) | USGS Reported Average Gage Height[1] (ft) | USGS Reported Total Precipitation[1,2] (inches) | USGS Reported Average Discharge (L/s) | Measured River Width (ft) | Estimated River Depth (ft) | Z Value[3] | Calculated Total Cross Sectional Area ($ft^2$) | Calculated River Velocity (ft/s) |
|---|---|---|---|---|---|---|---|---|---|
| 7/27/2021 | 2,864 | 2.55 | 0.0 | 81,089 | 323 | 19 | 2 | 5,437 | 0.5 |
| 7/28/2021 | 3,561 | 2.96 | 0.0 | 100,832 | 323 | 19 | 2 | 5,537 | 0.6 |
| | | | | | | | | **Average River Velocity:** | **0.6** |

**Notes:**

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

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

$ft^2$: feet squared

ft/s: feet per second

L/s: Liter per second

USGS - United States Geological Survey

**TABLE F3-2**
**SUMMARY OF FLOW IN CAPE FEAR RIVER AT WILM O'HUSKE LOCK NR TARHEEL, NC - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | USGS Reported Average Discharge[1] (cfs) | USGS Reported Average Gage Height[1] (ft) | USGS Reported Total Precipitation[1,2] (inches) | USGS Reported Average Discharge (L/s) | Measured River Width (ft) | Estimated River Depth (ft) | Z Value[3] | Calculated Total Cross Sectional Area ($ft^2$) | Calculated River Velocity (ft/s) |
|---|---|---|---|---|---|---|---|---|---|
| 8/18/2021 | 1,861 | 2.05 | 0.0 | 52,702 | 323 | 19 | 2 | 5,312 | 0.4 |
| 8/19/2021 | 2,607 | 2.49 | 0.0 | 73,810 | 323 | 19 | 2 | 5,422 | 0.5 |
| | | | | | | | | **Average River Velocity:** | **0.4** |

**Notes:**

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

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.

$ft^2$: feet squared.

ft/s: feet per second

L/s: Liter per second.

mph: miles per hour.

USGS - United States Geological Survey.

**TABLE F3-3**
**SUMMARY OF FLOW IN CAPE FEAR RIVER AT WILM O'HUSKE LOCK NR TARHEEL, NC - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Date | USGS Reported Average Discharge[1] (cfs) | USGS Reported Average Gage Height[1] (ft) | USGS Reported Total Precipitation[1,2] (inches) | USGS Reported Average Discharge (L/s) | Measured River Width (ft) | Estimated River Depth (ft) | Z Value[3] | Calculated Total Cross Sectional Area ($ft^2$) | Calculated River Velocity (ft/s) |
|---|---|---|---|---|---|---|---|---|---|
| 9/14/2021 | 1,137 | 1.52 | 0.0 | 32,207 | 323 | 18 | 2 | 5,179 | 0.2 |
| 9/15/2021 | 1,059 | 1.44 | 0.0 | 29,998 | 323 | 18 | 2 | 5,160 | 0.2 |
| | | | | | | | **Average River Velocity:** | | **0.2** |

**Notes:**

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

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.

$ft^2$: feet squared.

ft/s: feet per second

L/s: Liter per second.

mph: miles per hour.

USGS - United States Geological Survey.

**TABLE F4**
**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 |
| ***Table 3+ SOP (ng/L)*** | | | | | | | |
| 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 |
| **Total Attachment C (ng/L)[1,2]** | **5,900** | **4,300** | **6,600** | **5,400** | **3,400** | **3,500** | **2,600** |
| **Total Table 3+ (17 Compounds) (ng/L)[2,3]** | **5,900** | **4,300** | **6,600** | **5,400** | **3,400** | **3,500** | **2,600** |
| **Total Table 3+ (20 Compounds) (ng/L)[2]** | **6,200** | **4,400** | **6,800** | **5,500** | **3,600** | **3,500** | **2,700** |
| **Ratio of Total Attachment C to HFPO-DA** | **4.9** | **4.5** | **6.0** | **4.9** | **4.9** | **4.8** | **4.7** |
| **Ratio of Total Table 3+ (17 Compounds) to HFPO-DA** | **4.9** | **4.5** | **6.0** | **4.9** | **4.9** | **4.8** | **4.7** |
| **Ratio of Total Table 3+ (20 Compounds) to HFPO-DA** | **5.2** | **4.6** | **6.2** | **5.0** | **5.1** | **4.8** | **4.9** |
| **Average Ratio of Total Attachment C to HFPO-DA** | **4.85** | | | | | | |
| **Average Ratio of Total Table 3+ (17 Compounds) to HFPO-DA** | **4.87** | | | | | | |
| **Average Ratio of Total Table 3+ (20 Compounds) to HFPO-DA** | **5.03** | | | | | | |

**TABLE F4**
**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 |
| ***Table 3+ SOP (ng/L)*** | | | | | | | |
| 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 |
| **Total Attachment C (ng/L)[1,2]** | **2,500** | **2,600** | **2,500** | **2,400** | **1,400** | **2,900** | **2,300** |
| **Total Table 3+ (17 Compounds) (ng/L)[2,3]** | **2,600** | **2,600** | **2,500** | **2,400** | **1,400** | **3,000** | **2,300** |
| **Total Table 3+ (20 Compounds) (ng/L)[2]** | **2,600** | **2,700** | **2,500** | **2,600** | **1,400** | **3,100** | **2,400** |
| **Ratio of Total Attachment C to HFPO-DA** | **4.6** | **4.6** | **5.3** | **4.1** | **5.6** | **4.5** | **4.7** |
| **Ratio of Total Table 3+ (17 Compounds) to HFPO-DA** | **4.8** | **4.6** | **5.3** | **4.1** | **5.6** | **4.7** | **4.7** |
| **Ratio of Total Table 3+ (20 Compounds) to HFPO-DA** | **4.8** | **4.7** | **5.3** | **4.5** | **5.6** | **4.8** | **4.9** |
| **Average Ratio of Total Attachment C to HFPO-DA** | **4.85** | | | | | | |
| **Average Ratio of Total Table 3+ (17 Compounds) to HFPO-DA** | **4.87** | | | | | | |
| **Average Ratio of Total Table 3+ (20 Compounds) to HFPO-DA** | **5.03** | | | | | | |

**TABLE F4**
**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 |
| ***Table 3+ SOP (ng/L)*** | | |
| 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 |
| **Total Attachment C (ng/L)[1,2]** | **2,500** | **2,600** |
| **Total Table 3+ (17 Compounds) (ng/L)[2,3]** | **2,500** | **2,600** |
| **Total Table 3+ (20 Compounds) (ng/L)[2]** | **2,700** | **2,700** |
| **Ratio of Total Attachment C to HFPO-DA** | **4.8** | **4.6** |
| **Ratio of Total Table 3+ (17 Compounds) to HFPO-DA** | **4.8** | **4.6** |
| **Ratio of Total Table 3+ (20 Compounds) to HFPO-DA** | **5.2** | **4.7** |
| **Average Ratio of Total Attachment C to HFPO-DA** | **4.85** | |
| **Average Ratio of Total Table 3+ (17 Compounds) to HFPO-DA** | **4.87** | |
| **Average Ratio of Total Table 3+ (20 Compounds) to HFPO-DA** | **5.03** | |

***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 Perfluoroheptanoic acid (PFHpA), R-PSDA, Hydrolyzed PSDA, and R-EVE.

**TABLE F5-1**
**CALCULATION OF HFPO-DA DEPOSITED MASS AND MASS FLUX - JULY 2021**
**Chemours Fayetteville Works, North Carolina**

| Section[1] | Start Air Loading ($ug/m^2$) | End Air Loading ($ug/m^2$) | Start Deposition Rate $(ng/m^2/hr)^2$ | End Deposition Rate $(ng/m^2/hr)^2$ | Average Deposition Rate ($ng/m^2/hr$) | Section Distance[3] (m) | Average River Width (m) | River Velocity[4] (ft/s) | River Velocity (m/hr) | Travel Time (hrs) | Mass Deposited (mg) | Mass Discharge (mg/s) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Center | 160 | 160 | 18.3 | 18.3 | 18.3 | 903 | 98.59 | 0.6 | 641.79 | 1.41 | 2.3 | 0.00045 |
| Up River Section 1 | 160 | 80 | 18.3 | 9.1 | 13.7 | 490 | 98.59 | 0.6 | 641.79 | 0.76 | 0.5 | 0.00018 |
| Up River Section 2 | 80 | 40 | 9.1 | 4.6 | 6.8 | 909 | 98.59 | 0.6 | 641.79 | 1.42 | 0.9 | 0.00017 |
| Down River Section 1 | 160 | 80 | 18.3 | 9.1 | 13.7 | 586 | 98.59 | 0.6 | 641.79 | 0.91 | 0.7 | 0.00022 |
| Down River Section 2 | 80 | 40 | 9.1 | 4.6 | 6.8 | 565 | 98.59 | 0.6 | 641.79 | 0.88 | 0.3 | 0.00011 |
| | | | | | | | | | | **Total HFPO-DA:** | | **0.0011** |
| | | | | | | | | | | **Total Attachment C[5]:** | | **0.01** |
| | | | | | | | | | | **Total Table 3+ (17 Compounds)[6]:** | | **0.01** |
| | | | | | | | | | | **Total Table 3+ (20 Compounds):** | | **0.01** |

***Notes:***

1. River cross sections are shown in Figure F1
2. Based on model deposition rate, Table F1
3. Section distances are measured in GIS as shown on Figures F2 through F6.
4. River velocity is calculated as an average from USGS discharge data between July 27 to 28, 2021, Table F3-1
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.

$\mu g/m^2/yr$: micrograms per meter square per year
ft/s: feet per second
hr: hours
m/hr: meters per hour
m: meter
$m^2$: meter square
mg/s: milligrams per second
mg: milligrams
$ng/m^2/hr$: nanograms per meter square per hour

**TABLE F5-2**
**CALCULATION OF HFPO-DA DEPOSITED MASS AND MASS FLUX - AUGUST 2021**
**Chemours Fayetteville Works, North Carolina**

| Section[1] | Start Air Loading ($ug/m^2$) | End Air Loading ($ug/m^2$) | Start Deposition Rate $(ng/m^2/hr)^2$ | End Deposition Rate $(ng/m^2/hr)^2$ | Average Deposition Rate $(ng/m^2/hr)$ | Section Distance[3] (m) | Average River Width (m) | River Velocity[4] (ft/s) | River Velocity (m/hr) | Travel Time (hrs) | Mass Deposited (mg) | Mass Discharge (mg/s) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Center | 160 | 160 | 18.3 | 18.3 | 18.3 | 903 | 98.59 | 0.4 | 455.99 | 1.98 | 3.2 | 0.00045 |
| Up River Section 1 | 160 | 80 | 18.3 | 9.1 | 13.7 | 490 | 98.59 | 0.4 | 455.99 | 1.07 | 0.7 | 0.00018 |
| Up River Section 2 | 80 | 40 | 9.1 | 4.6 | 6.8 | 909 | 98.59 | 0.4 | 455.99 | 1.99 | 1.2 | 0.00017 |
| Down River Section 1 | 160 | 80 | 18.3 | 9.1 | 13.7 | 586 | 98.59 | 0.4 | 455.99 | 1.29 | 1.0 | 0.00022 |
| Down River Section 2 | 80 | 40 | 9.1 | 4.6 | 6.8 | 565 | 98.59 | 0.4 | 455.99 | 1.24 | 0.5 | 0.00011 |
| | | | | | | | | | | **Total HFPO-DA:** | | **0.0011** |
| | | | | | | | | | | **Total Attachment C[5]:** | | **0.01** |
| | | | | | | | | | | **Total Table 3+ (17 Compounds)[6]:** | | **0.01** |
| | | | | | | | | | | **Total Table 3+ (20 Compounds):** | | **0.01** |

***Notes:***

1. River cross sections are shown in Figure F1
2. Based on model deposition rate, Table F1
3. Section distances are measured in GIS as shown on Figures F2 through F6.
4. River velocity is calculated as an average from USGS discharge data between August 18 to 19, 2021, Table F3-2
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.

$\mu g/m^2/yr$: micrograms per meter square per year
ft/s: feet per second
hr: hours
m/hr: meters per hour
m: meter
$m^2$: meter square
mg/s: milligrams per second
mg: milligrams
$ng/m^2/hr$: nanograms per meter square per hour

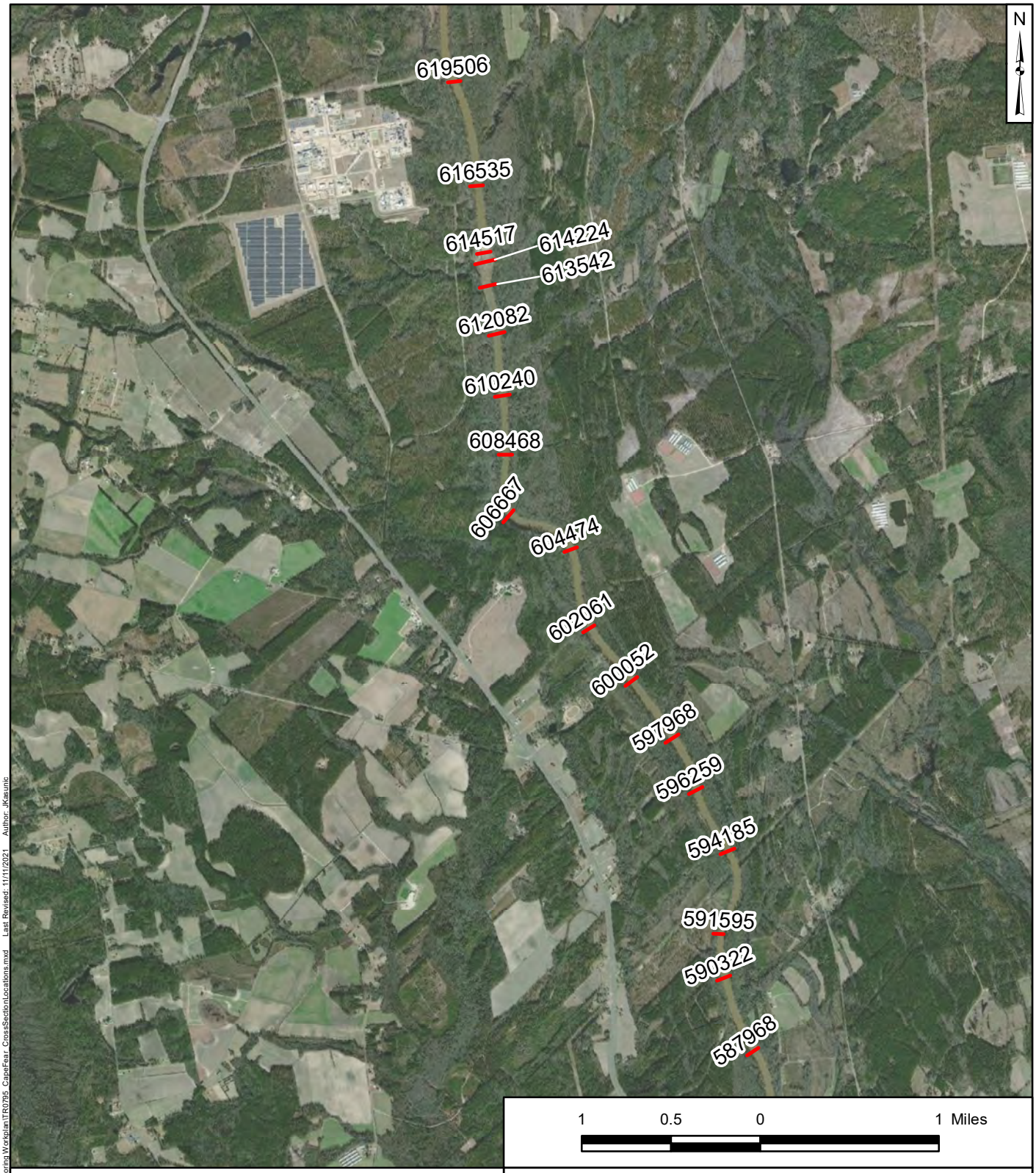
**TABLE F5-3**
**CALCULATION OF HFPO-DA DEPOSITED MASS AND MASS FLUX - SEPTEMBER 2021**
**Chemours Fayetteville Works, North Carolina**

| Section[1] | Start Air Loading ($ug/m^2$) | End Air Loading ($ug/m^2$) | Start Deposition Rate $(ng/m^2/hr)^2$ | End Deposition Rate $(ng/m^2/hr)^2$ | Average Deposition Rate ($ng/m^2/hr$) | Section Distance[3] (m) | Average River Width (m) | River Velocity[4] (ft/s) | River Velocity (m/hr) | Travel Time (hrs) | Mass Deposited (mg) | Mass Discharge (mg/s) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Center | 160 | 160 | 18.3 | 18.3 | 18.3 | 903 | 98.59 | 0.2 | 233.14 | 3.87 | 6.3 | 0.00045 |
| Up River Section 1 | 160 | 80 | 18.3 | 9.1 | 13.7 | 490 | 98.59 | 0.2 | 233.14 | 2.10 | 1.4 | 0.00018 |
| Up River Section 2 | 80 | 40 | 9.1 | 4.6 | 6.8 | 909 | 98.59 | 0.2 | 233.14 | 3.90 | 2.4 | 0.00017 |
| Down River Section 1 | 160 | 80 | 18.3 | 9.1 | 13.7 | 586 | 98.59 | 0.2 | 233.14 | 2.52 | 2.0 | 0.00022 |
| Down River Section 2 | 80 | 40 | 9.1 | 4.6 | 6.8 | 565 | 98.59 | 0.2 | 233.14 | 2.42 | 0.9 | 0.00011 |
| | | | | | | | | | | **Total HFPO-DA:** | | **0.0011** |
| | | | | | | | | | | **Total Attachment C[5]:** | | **0.01** |
| | | | | | | | | | | **Total Table 3+ (17 Compounds)[6]:** | | **0.01** |
| | | | | | | | | | | **Total Table 3+ (20 Compounds):** | | **0.01** |

***Notes:***

1. River cross sections are shown in Figure F1
2. Based on model deposition rate, Table F1
3. Section distances are measured in GIS as shown on Figures F2 through F6.
4. River velocity is calculated as an average from USGS discharge data between September 14 to 15, 2021, Table F3-3
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.

$\mu g/m^2/yr$: micrograms per meter square per year
ft/s: feet per second
hr: hours
m/hr: meters per hour
m: meter
$m^2$: meter square
mg/s: milligrams per second
mg: milligrams
$ng/m^2/hr$: nanograms per meter square per hour




Legend

Cross Section

Notes:

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

**Cape Fear River Cross Sections Locations**

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

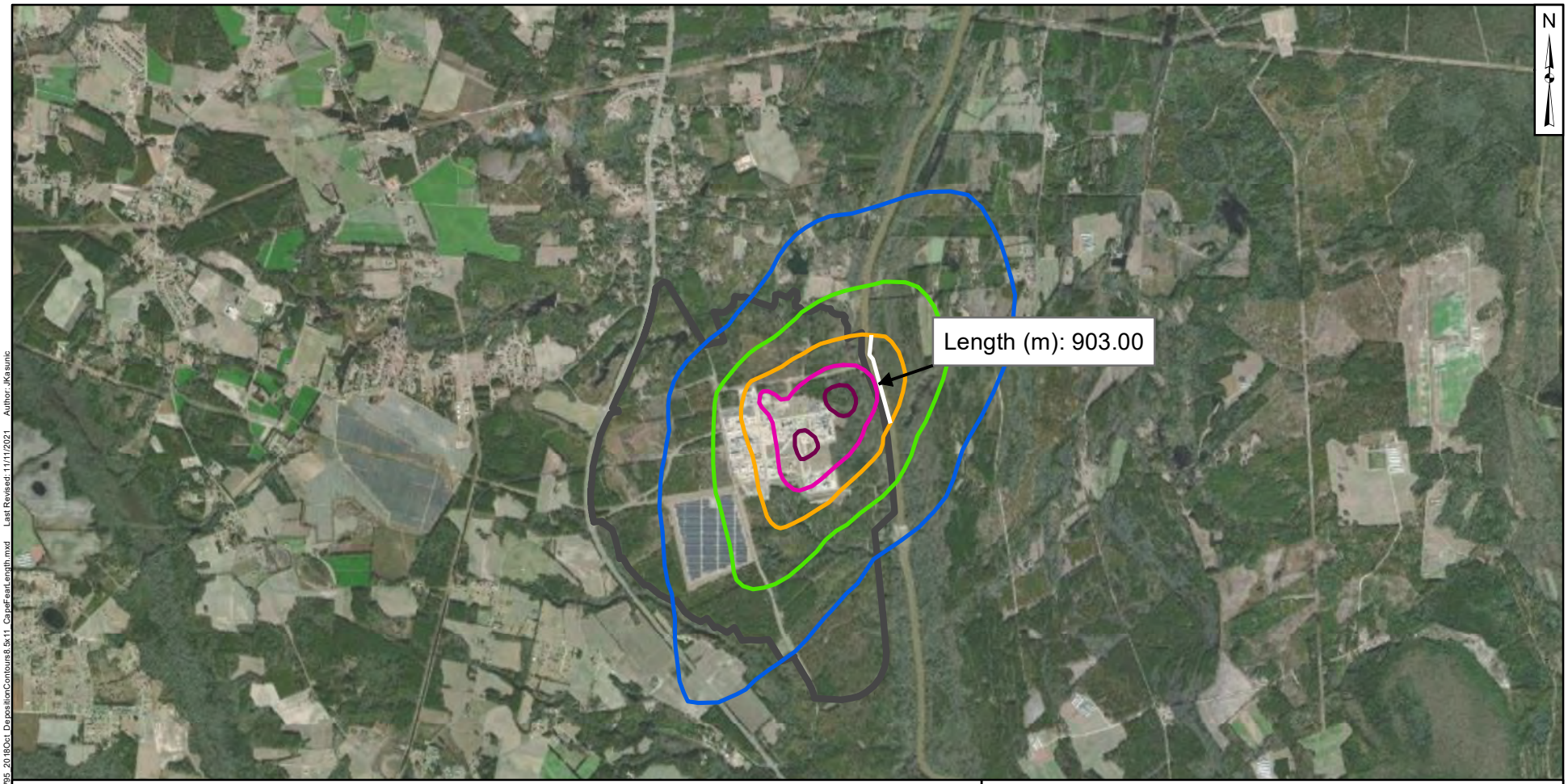
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh, NC | December 2021

Figure **F1**

Path: P:\PR\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\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

Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 µg/m$^2$/yr
- 80 µg/m$^2$/yr
- 160 µg/m$^2$/yr
- 320 µg/m$^2$/yr
- 640 µg/m$^2$/yr

Notes:
µg / m$^2$/ 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.
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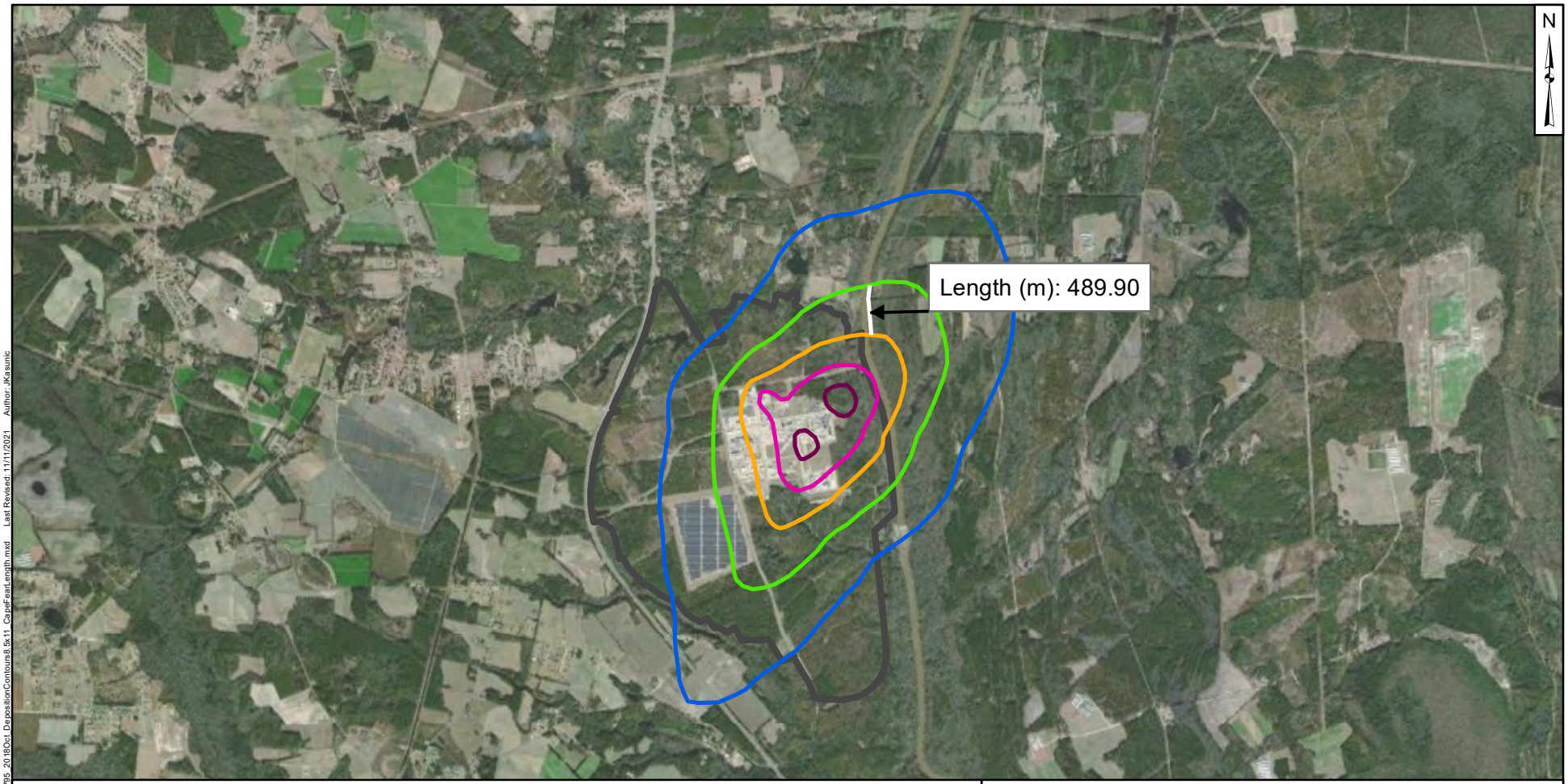
Figure **F2**

Path: P:\PR\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_2018Oct_DepositionContours8.5x11_CapeFearLength.mxd Last Revised: 11/11/2021 Author: JKasunic

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




Legend

Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 µg/m$^2$/yr
- 80 µg/m$^2$/yr
- 160 µg/m$^2$/yr
- 320 µg/m$^2$/yr
- 640 µg/m$^2$/yr

Notes:
µg / m$^2$/ 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

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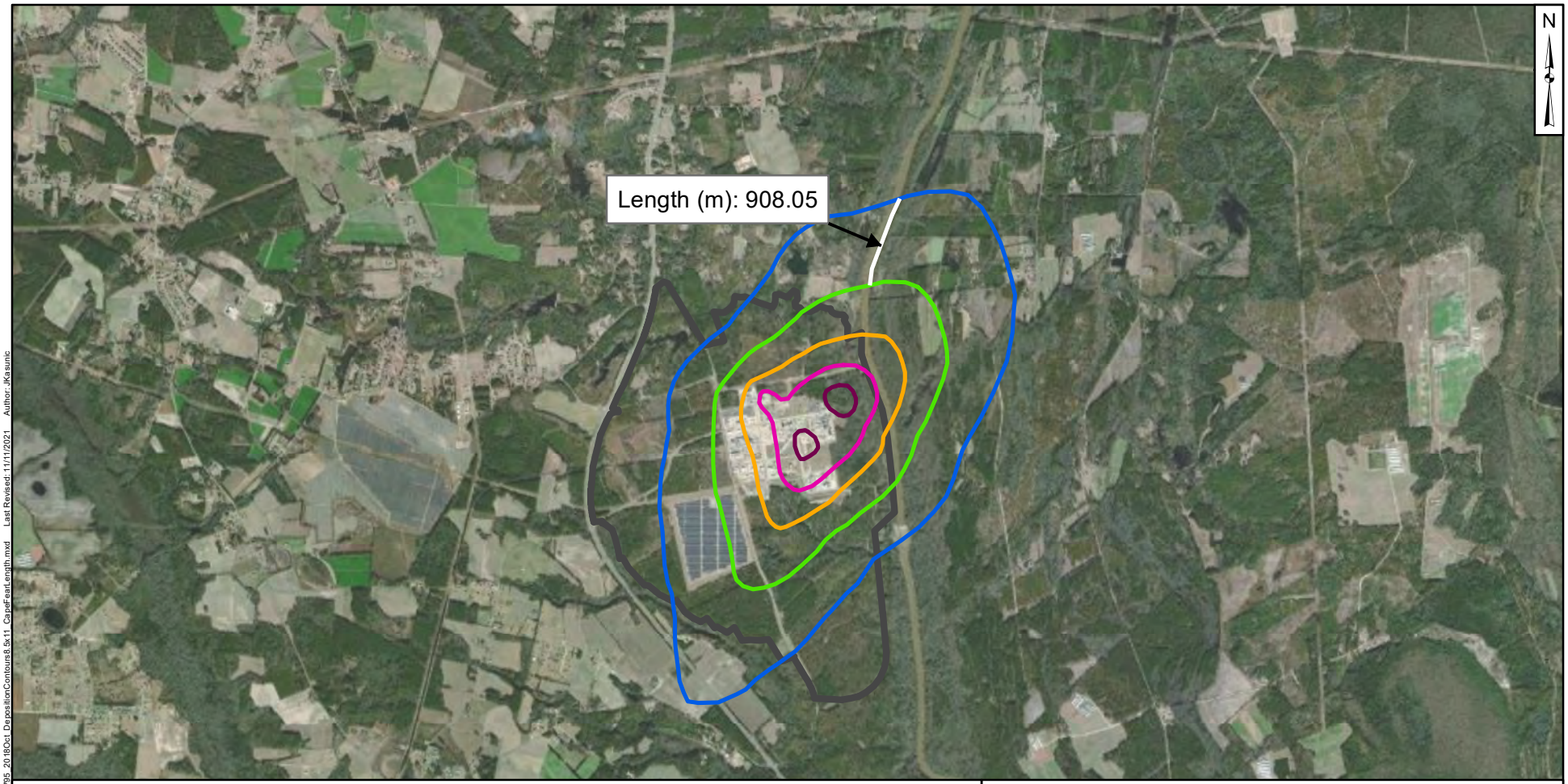
Figure **F3**

Path: P:\PR\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_2018Oct_DepositionContours8.5x11_CapeFearLength.mxd Last Revised: 11/11/2021 Author: JKasunic

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




Legend

Site Boundary

Modeled Deposition Contours, October 2018 Scenario

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

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

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

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

1 0.5 0 1 Miles

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

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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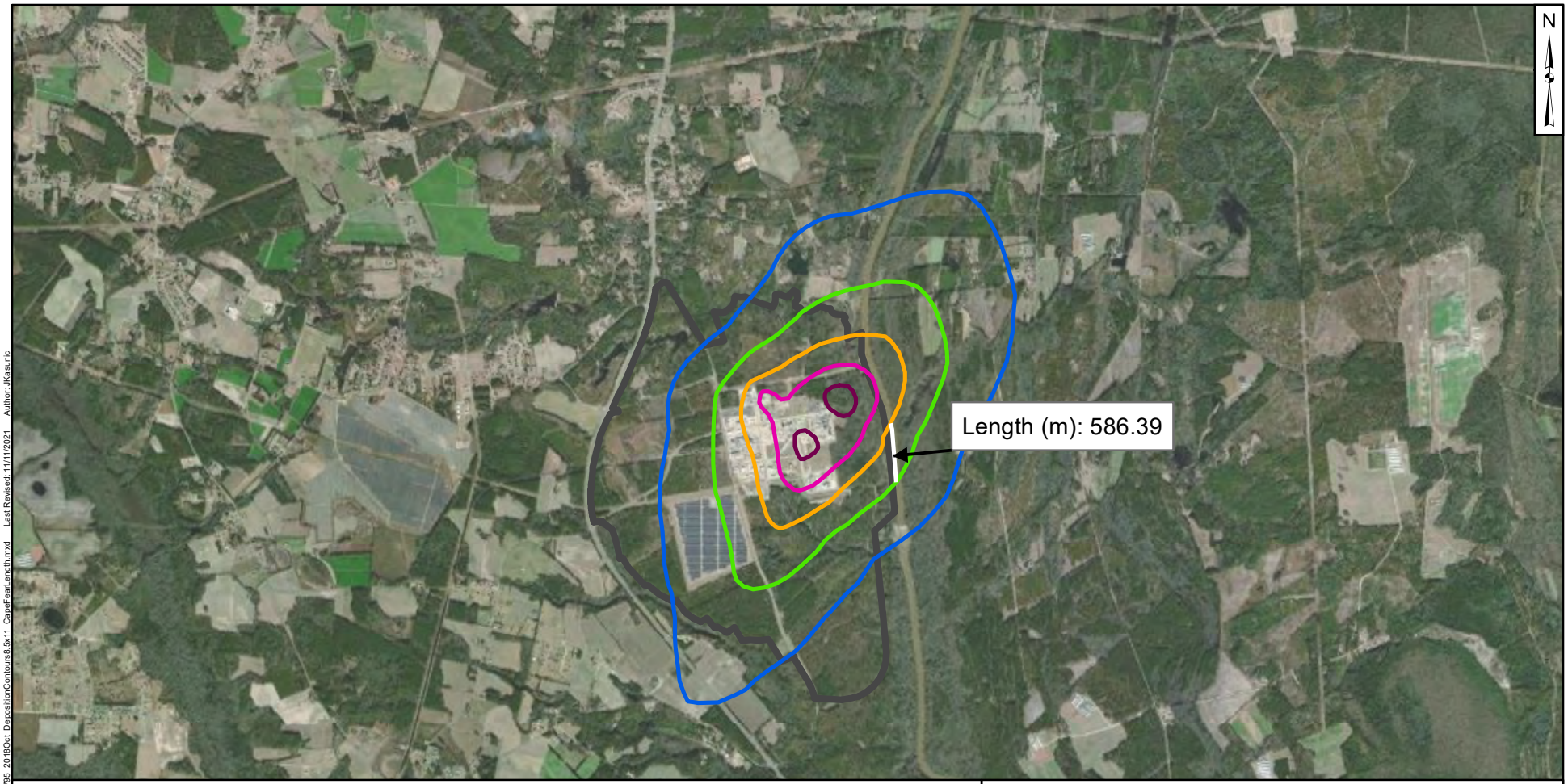
Figure **F4**

Path: P:\PR\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_2018Oct_DepositionContours8.5x11_CapeFearLength.mxd Last Revised: 11/11/2021 Author: JKasunic

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




Legend

Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 µg/m$^2$/yr
- 80 µg/m$^2$/yr
- 160 µg/m$^2$/yr
- 320 µg/m$^2$/yr
- 640 µg/m$^2$/yr

Notes:
µg / m$^2$/ 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

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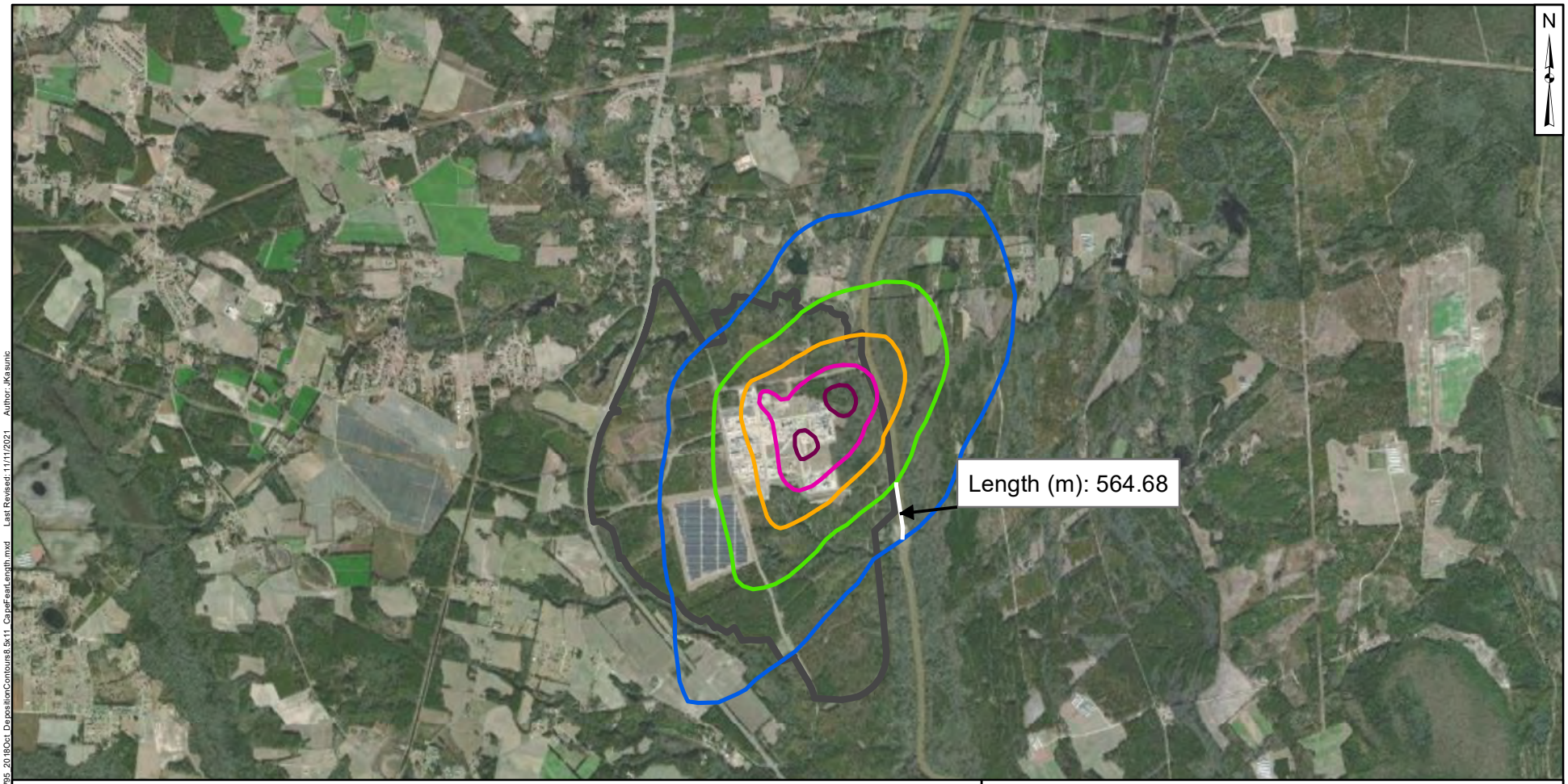
Figure **F5**

Path: P:\PR\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_2018Oct_DepositionContours8.5x11_CapeFearLength.mxd Last Revised: 11/11/2021 Author: JKasunic

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




Legend

Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 µg/m$^2$/yr
- 80 µg/m$^2$/yr
- 160 µg/m$^2$/yr
- 320 µg/m$^2$/yr
- 640 µg/m$^2$/yr

Notes:
µg / m$^2$/ 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

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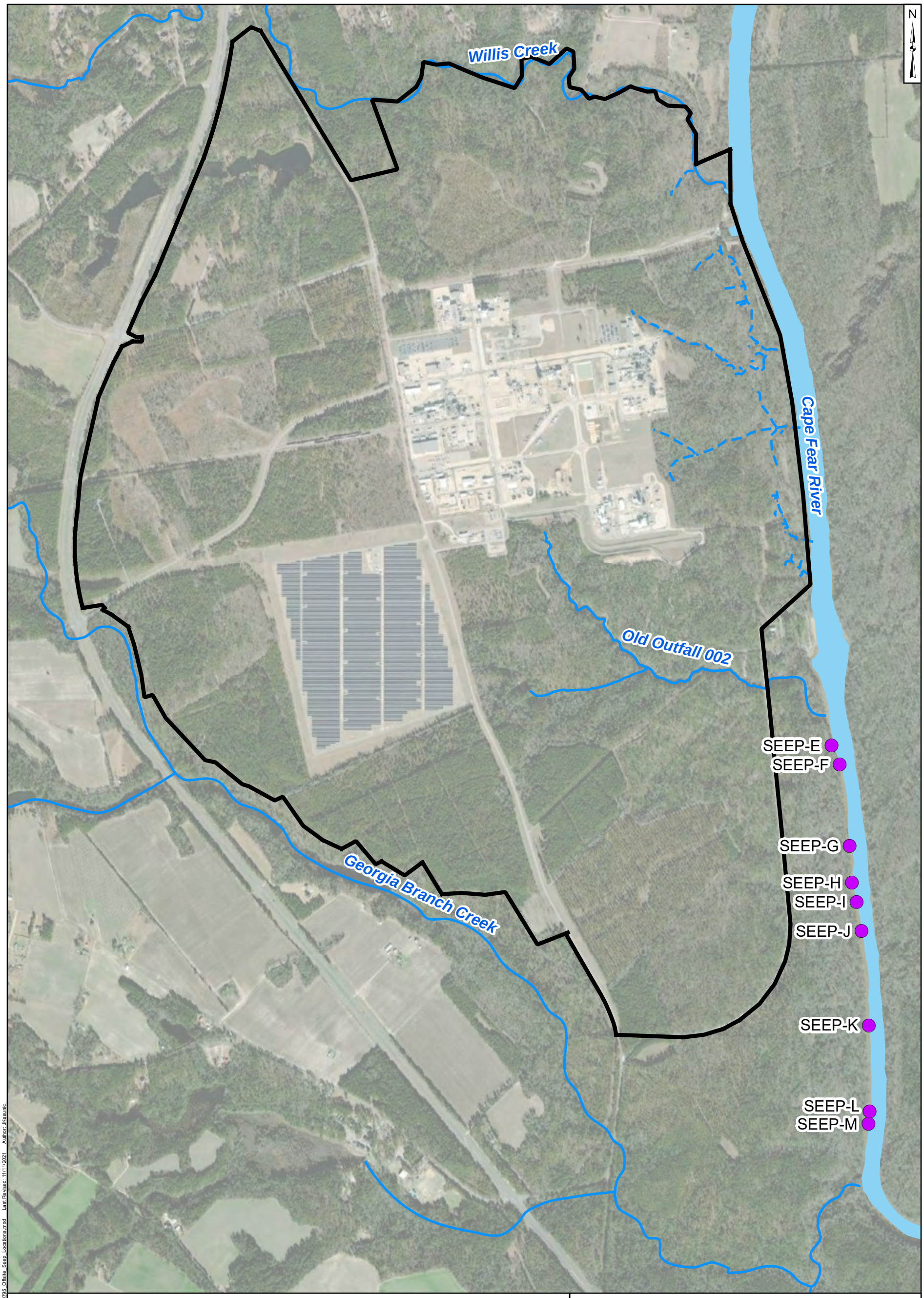
Figure **F6**

Path: P:\PR\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_2018Oct_DepositionContours8.5x11_CapeFearLength.mxd Last Revised: 11/11/2021 Author: JKasunic

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

1,000 500 0 1,000 Feet

**Southwestern Offsite Seeps Locations**

Chemours Fayetteville Works, North Carolina

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Figure **F7**

Path: P:\PR\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_Offsite_Seep_Locations.mxd Last Revised: 11/11/2021 Author: JKasunic

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