

# APPENDIX A

## Field Methods

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### FIELD METHODS

#### INTRODUCTION AND OBJECTIVES

This appendix summarizes the field methods employed to conduct monitoring activities for total per- and polyfluoroalkyl substances (PFAS) mass loading to the Cape Fear River at and surrounding the Chemours Fayetteville Works, North Carolina site (the Site). The effort described herein was conducted by Geosyntec and Parsons in December 2020. The monitoring program includes collecting data on flow rates and PFAS concentrations from the PFAS transport pathways to the Cape Fear River.

#### SCOPE OF WORK

The scope of work involves four tasks: (1) collecting surface water and groundwater seep water samples for PFAS; (2) measuring flow rates at specified surface water and seep locations; (3) collecting a synoptic round of groundwater elevations from designated monitoring wells; and (4) collecting water samples for PFAS analysis from the designated monitoring wells. Field methods for each task are described below in the Methods section. Field forms collected during implementation of this scope of work are provided in Appendix E.

The work was performed according to the project health and safety plan (HASP) prepared by Parsons (Parsons Health and Safety Plan Chemours Fayetteville Site, 2020). A Plan on Action Discussion (POAD) and Project Safety Analysis (PSA) was held prior to commencing field activities. The work was performed under Nationwide Permit 6 (United States Army Corps of Engineers, 2017).

#### METHODS

This section describes the field methods and procedures that were employed for collecting surface water and onsite seep samples, gauging stream flow, collection of groundwater elevations, water quality parameter assessment and sample collection.

#### **Surface Water and Onsite Seep Sample Collection Methods**

##### **Surface Water and Onsite Seep Composite Sampling Methods**

Autosamplers were used to collect 24-hour integrated samples from various surface water bodies and onsite Seeps. The autosamplers collected sample aliquots once per hour. The sample tubing from the autosampler was positioned at minimum 2 inches above the bottom of the water body flow with the open end of the sample tubing pointed in the downstream direction to minimize the potential for sediment accumulation and uptake. Autosampler materials consisted of high-density polyethylene (HDPE) tubing, silicon tubing, and an HDPE sample reservoir. Water from the

sample reservoir was decanted into laboratory supplied bottles (e.g. 250-milliliter [mL] HDPE bottles for PFAS analysis) and then sent to an approved laboratory. Field parameters were measured twice for composite samples: once during composite sampling (collected directly from the water stream), and once after composite sampling (collected from the autosampler reservoir). The following water quality parameters were recorded:

- pH;
- Temperature (degrees Celsius [ $^{\circ}\text{C}$ ]);
- Specific Conductivity (microsiemens per centimeter [ $\mu\text{S}/\text{cm}$ ]);
- Dissolved Oxygen (DO) (milligrams per liter [ $\text{mg}/\text{L}$ ]); and,
- Oxidation-Reduction Potential (ORP) (millivolts [ $\text{mV}$ ])

### **Creek and Seep Water Grab Sampling Methods**

Where composite sample collection was not feasible due to access and other field conditions, creek and seep water samples were collected as grab samples. Laboratory-supplied 250 mL HDPE sample bottles were lowered into the flowing water of the creek to collect the sample. The bottles were lowered into the stream either using a properly decontaminated dip rod with bottle attached with a nylon zip tie, or in shallow streams, by hand. The bottle was lowered into the stream with the cap removed, open and facing oncoming flow. Where possible, the sample was collected from the middle of the stream. Care was taken to avoid collecting suspended solids or other materials in the sample. The following water quality parameters were measured after sample collection using water from the same location in the stream:

- pH;
- Temperature ( $^{\circ}\text{C}$ );
- Specific Conductivity ( $\mu\text{S}/\text{cm}$ );
- DO ( $\text{mg}/\text{L}$ ); and
- ORP ( $\text{mV}$ ).

### **Cape Fear River Water Grab Sampling Methods**

Cape Fear River water samples were collected using a peristaltic pump and new dedicated HDPE tubing and dedicated silicone tubing for the pump head at each location. The tubing was lowered to the specified sampling depth below the water surface using an anchor weight and the tubing fastened to the anchor pointing upwards. Surface water was pumped directly from the submerged tubing through the pump head to a flow-through cell. Field parameters were monitored over a 5-minute interval, then the flow-through cell was disconnected, the tubing cut to provide a new, clean end and a grab sample was collected from the discharge of the peristaltic pump in new 250 mL laboratory-supplied HDPE bottles. The following water quality parameters were measured:

- pH;
- Temperature ( $^{\circ}\text{C}$ );

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- Specific Conductivity ( $\mu\text{S}/\text{cm}$ );
- DO ( $\text{mg}/\text{L}$ ); and
- ORP ( $\text{mV}$ ).

### **Flow Gauging Methods**

Flow velocity was measured after sample collection at seep and creek locations specified in Table 2. Flow velocity was measured using flumes where they exist, otherwise flow velocity was measured via flow meters.

#### **Flumes**

Flumes are currently installed in Seep A, Seep B, Seep C, Seep D, and Old Outfall 002 under Nationwide Permit 38 (United States Army Corps of Engineers, June 2019). Where present, they were used to calculate flow based on the data collected by the level logger installed in the flume.

#### **Flow Velocity Gauging**

Where flumes are not installed (i.e., Willis Creek and Georgia Branch Creek), the flow rate of the stream was measured using a submersible flow meter. The flow meter was placed beneath the flowing stream along the cross section of the stream at regular intervals (e.g. every six inches) and the height of the water was recorded along with the recorded water velocity. These measurements were then used to calculate the volumetric flow of water passing through the structure based on the regular geometry and measured flow rates. Flow was measured using two to three transects to assess variability in estimated flow. Transects were selected that have fairly uniform cross sections that could be gauged with minimal disturbance.

### **Synoptic Water Level Measurements**

Water level measurements for monitoring wells listed in Table 3 were collected during a single synoptic event. At each location, notes on well condition, weather, date and time of collection, depth to bottom of well and depth to water level from top of casing were recorded.

### **Groundwater Sampling Methods**

Designated monitoring wells were monitored as part of the quarterly monitoring activities. These wells are listed in Table 3 and Figure 7a-c.

The groundwater samples were analyzed for the list of PFAS compounds listed in Table 1. Field equipment was inspected by the program on-Site supervisor and calibrated daily prior to use according to the manufacturer's recommended guidelines. Field parameters were measured with a water quality meter after sample collection and included the following:

- pH;
- Temperature ( $^{\circ}\text{C}$ );

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- Specific Conductivity ( $\mu\text{S}/\text{cm}$ );
- DO (mg/L);
- ORP (mV);
- Turbidity (nephelometric turbidity units [NTU]); and,
- Color.

Non-dedicated or non-disposable sampling equipment was decontaminated immediately before sample collection in the following manner:

1. De-ionized water rinse;
2. Scrub with de-ionized water containing non-phosphate detergent (i.e., Alconox®); and
3. De-ionized water rinse.

Disposable equipment (e.g. gloves, tubing, etc.) was not reused. New sample containers were used for each sample.

Groundwater samples were collected, where possible, using low-flow sampling techniques as discussed in detail in the *Long-term Groundwater Monitoring Plan* (Parsons, 2018) and briefly summarized here.

1. New disposable or dedicated HDPE tubing was placed at the midpoint of the well's screened interval.
2. Water was purged through a flow-through cell attached to a water quality meter capable of measuring pH, temperature, specific conductivity, dissolved oxygen, and ORP.
3. Water was pumped using a peristaltic pump, with dedicated silicone tubing for the pump head, at wells with water level less than 30 feet. A submersible pump was used for wells with water level deeper than 30 feet.
4. Groundwater was pumped directly from submerged tubing through the pump head to a flow-through cell until field parameters (pH, temperature, specific conductivity, DO, ORP) were stabilized within  $\pm 10\%$  over three consecutive readings within a five-minute interval. If field parameters stabilized, but turbidity remained stable yet elevated greater than 20 NTU, field personnel purged five well volumes prior to sample collection.
5. Water levels in the designated wells were monitored during purging so that minimum draw-down of the water column was maintained.
6. Once flow-through cell readings were stable, the flow-through cell was disconnected, the tubing cut to provide a new clean end and samples were collected from the discharge of the peristaltic pump in new 250 mL laboratory-supplied HDPE bottles.
7. Sample identification information (e.g., well/sample identification number, sample time and date, samplers' names, preservative, and analytical parameters) were recorded on the bottle label with permanent ink after the sample was collected.

## **Sample Packing and Shipping**

Upon sample collection, each containerized sample was placed into an insulated sample cooler. Wet ice was placed around the sample containers within heavy-duty plastic bags within the sample cooler.

A chain-of-custody form was completed by the field sample custodian for each sample shipment. Sample locations, sample identification numbers, description of samples, number of samples collected, and specific laboratory analyses were recorded on the chain-of-custody form.

## **Field QA/QC Samples**

Field quality assurance/ quality control (QA/QC) samples were collected as discussed in detail in the *Long-term Groundwater Monitoring Plan* (Parsons, 2018) and summarized below:

1. For samples collected to be analyzed by Method Table 3+, two blind duplicate samples were collected;
2. For samples collected to be analyzed by Method Table 3+, three MS/MSD samples were collected;
3. For groundwater samples collected in December, equipment blanks and field blanks were collected daily.
4. For surface water samples collected in December, four equipment blanks and two field blanks were collected.

## **REFERENCES**

Parsons, 2018. Long-term Groundwater Monitoring Plan. September 28, 2018.

Parsons, 2020. Fayetteville Works Health and Safety Plan.

United States Army Corps of Engineers. Nationwide Permit 6. 19 March 2017. <http://saw-reg.usace.army.mil/NWP2017/2017NWP06.pdf>. Accessed 30 January 2019.

United States Army Corps of Engineers. Nationwide Permit 36, 06 June 2019.

## APPENDIX B

# Cape Fear River Mass Loading Calculations

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### CAPE FEAR RIVER MASS LOADING CALCULATIONS

This appendix presents the methodology for calculating three types of mass loads:

1. The total measured in-river PFAS mass load based on time-weighted concentration measurements of PFAS primarily from composite samples of Cape Fear River water and measured Cape Fear River flow volumes at the W.O. Huske Dam that are adjusted for travel times to the downstream monitoring location at the CFR-TARHEEL;
2. The total measured and estimated PFAS mass load captured by remedies implemented by Chemours; this is the load fraction that was prevented from reaching the Cape Fear River; and
3. The total measured Total PFAS mass load to the Cape Fear River defined as the sum of the measured in-river loads and the remedy prevented loads.

The following sections detailed calculation methods for each type of mass load: Total, River and Captured Mass Loads.

#### Total Mass Load Calculation Methodology

The Total Mass Load is calculated following Equation 1 below:

***Equation 1: Total PFAS Mass Load***

$$M_{CFR} = m_{CFR} + m_{Remedies}$$

where,

$M_{CFR}$  = is the Mass Load of PFAS compounds in the Cape Fear River, including the mass load prevented from reaching the Cape Fear River by implemented remedies, measured in kilograms (kg);

$m_{CFR}$  = is the River Mass Load estimated using PFAS concentrations in samples taken in the Cape Fear River downstream of the Site where the river is well mixed and using measured river flow volumes; and

$m_{Remedies}$  = is the Captured Mass Load prevented from reaching the Cape Fear River by remedies implemented by Chemours;

The following subsections describe how the River and Captured Mass Loads are calculated.

#### River Mass Load Calculation Methodology

The River Mass Load is the estimated mass, in kilograms, that has reached the Cape Fear River over a period of time. The River Mass Load,  $m_{CFR}$ , is calculated using primarily composite samples from the Cape Fear River and corresponding river flow volumes. The River Mass Load is calculated for a given time period following Equation 2 below:



**Equation 2: Cape Fear River Estimated Mass Discharge from Mass Loading Model**

$$MD_{CFR} = \sum_{p=1}^9 \sum_{i=1}^I MD_{p,i} = \sum_{p=1}^9 \sum_{i=1}^I (C_{n,i} \times Q_n)$$

where,

$MD_{CFR}$  = Total PFAS estimated mass discharge entering the Cape Fear River, measured in mass per unit time [ $MT^{-1}$ ], typically mg/s;

$p$  = represents each of the 9 potential PFAS transport pathways described further in Section 4.4. To facilitate model construction, the Seeps (Transport Pathway 6) were further discretized as Seep A (Transport Pathway 6A), Seep B (Transport Pathway 6B), Seep C (Transport Pathway 6C) and Seep D (Transport Pathway 6D);

$i$  = represents each of the PFAS constituents being evaluated;

$I$  = represents total number of PFAS constituents included in the summation of Total PFAS concentrations;

$MD_{p,i}$  = mass load of each PFAS constituent  $i$  from each potential pathway  $p$  with measured units in mass per unit time [ $MT^{-1}$ ], typically mg/s;

$C_{p,i}$  = concentration of each PFAS constituent  $i$  from each potential pathway  $p$  with measured units in mass per unit volume [ $ML^{-3}$ ], typically ng/L; and

$Q_n$  = volumetric flow rate from each potential pathway  $n$  with measured units in volume per time [ $L^3T^{-1}$ ], typically liters per second (L/s).

Calculation of Time-Weighted Average Concentrations

During a time period, multiple samples will be collected, most of them being composite samples and some potentially being grab samples. The calculation methodology outlined here considers all collected samples in the time period, including cases where samples are collected contemporaneously with each other and cases where composite sample collection events do not occur successively, as is the case with twice weekly 24 hour composite samples. To facilitate this calculation the overall time period is separated into discrete time intervals with corresponding time-weighted concentrations calculated for each interval. The time intervals are defined as the duration in time between two sampling events, where sampling events consist of:

- Beginning of a composite sample collection;
- End of a composite sample collection; or
- Collection of a grab sample.

Equation 3 shows the formula used to calculate the total flow volume for each interval.

**Equation 3: Mass Load Time Interval Concentration**

$$C_{CFR,n,i} = \sum_{k=1}^K C_{CFR,n,i,k} \times w_k$$

$$= \sum_{k=1}^K C_{CFR,n,i,k} \frac{\frac{t_n}{t_k}}{\sum_{k=1}^K \frac{t_n}{t_k}}$$

where,

$C_{CFR,n,i}$  = is the measured or estimated concentration of PFAS for each baseline mass loading time interval based on samples collected from the Cape Fear River;

$n$  = represents individual time intervals during a monitoring period;

$i$  = represents each of the PFAS constituents being evaluated;

$k$  = represents a concentration sample considered in the mass load time interval;

$K$  = is the total number of concentration samples considered in the mass load time interval;

$C_{CFR,n,i,k}$  = is the measured concentration of PFAS for each sample result considered in calculating the time-weighted average concentration for a mass load time interval; and

$w_k$  = is the weighting factor calculated for and applied individually to each concentration, where,

$t_n$  = the length of time of the mass load time interval; and

$t_k$  = the length of time of the collected sample. For composite samples,  $t_k$  is the total length of the composite sample collection period. If  $t_k < t_n$ , i.e., the composite sample collection time is less than the interval time, or a grab sample was collected, then  $t_k$  is set to equal the interval time for the purposes of concentration weighting.

Calculation of Travel Time Adjusted Flow Volumes

To calculate the mass load, river flow volumes are calculated for each time interval using United States Geological Survey (USGS) reported flows at the W.O. Huske Dam. A time offset is applied to the flow data to account for travel time for the flow passing the W.O. Huske Dam to reach the CFR-TARHEEL location. River flow passing the W.O. Huske is estimated to have a travel time between 2 and 12 hours to reach CFR-TARHEEL depending on river flow (e.g., the flow rate passing W.O. Huske Dam at 8 am will arrive at CFR-TARHEEL at 11 am for a 3 hour travel time). Travel times are estimated based on the results of a numerical model of the Cape Fear River which developed a regression curve between the USGS reported gage heights at W.O. Huske Dam and travel times. Equation 4 shows the formula used to calculate the time offset. The total volume of flow for each mass loading interval is calculated as the sum of all individual flow measurements

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for an interval where each measurement multiplied by its corresponding 15-minute time duration. Equation 5 shows the formula used to calculate the total flow volume for each interval.

**Equation 4: Travel time offset W.O. Huske Dam to Tar Heel Ferry Road Bridge**

$$t_{offset} = 13,422 \cdot Q_{WOHD}^{-1} + 2.019$$

where,

$t_{offset}$  = is the travel time flow in the Cape Fear River takes in hours to pass from the W.O. Huske Dam to CFR-TARHEEL based on the measured flow in the Cape Fear River at the W.O. Huske Dam;

$Q_{WOHD}^{-1}$  = is the inverse of the measured flow rate of the Cape Fear River at W.O. Huske Dam for a given point in time in cubic feet per second (ft<sup>3</sup>/s); and

13,422 and 2.019 = are constant values, which correspond to the slope and intercept of the regression line, respectively.

**Equation 5: Cape Fear River Flow Volume per Interval**

$$V_{CFR,n} = \sum_{m=1}^M Q_{WOHD,n,m+t_{offset}} \times (t_{n,m} - t_{n,m-1})$$

where,

$V_{CFR,n}$  = is the volume of Cape Fear River water that flowed past the sampling point during the baseline mass loading time interval;

$n$  = represents the baseline mass loading time intervals number for which the volume is being calculated;

$m$  = represents a 15-minute flow measurement recorded by the USGS station at W.O. Huske Dam during a baseline mass loading time interval “ $n$ ”;

$M$  = the total number of 15-minute flow measurements recorded by the USGS station at W.O. Huske Dam during a baseline mass loading time interval “ $n$ ”;

$Q_{WOHD,n,m+t_{offset}}$  = is the Cape Fear River flow rate (units of volume per time) at Tar Heel Ferry Road bridge based on the recorded values at W.O.Huske Dam and adjusted for travel time as described in Equation 4; and

$(t_{n,m} - t_{n,m-1})$  = is the length of time for the flow measurement durations (units of time reported typically in 15-minute intervals by USGS).

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### Complete Calculation of River Mass Load

Based on all the calculation details described above, the full expanded version of the River Mass Load calculation is shown below in Equation 6.

#### ***Equation 6: Expanded River Mass Load Calculation***

$$m_{CFR} = \sum_n \sum_{i=1}^{i=1} \sum_k c_{CFR,n,i,k} \frac{t_n}{t_k} \sum_m Q_{CFR\ WOHD,n,m+t_{offset}} \cdot (t_{n,m} - t_{n,m-1})$$

#### **Captured Mass Load Calculation Methodology**

Remedies to be implemented by Chemours (e.g. onsite seeps interim remedies, Old Outfall 002 remedy) will prevent PFAS mass loads from reaching the Cape Fear River. The specific methodology for estimating the prevented mass per remedy will be developed on a per remedy basis. The goal of such calculations will be to estimate for a given time period (i.e. one quarter) the PFAS mass diverted from reaching the Cape Fear River by the remedy that would have otherwise reached the Cape Fear River.

Remedies that have been implemented by Chemours include the Old Outfall 002 treatment system (October 1, 2020) and the Seep C flow through cell (December 16, 2020). These remedies prevent PFAS mass loads from reaching the Cape Fear River and were quantified in the  $m_{Remedies}$  term of Equation 1. The following subsections describe the calculation methodology for the captured mass load by The Old Outfall 002 treatment system and the Seep C flow-through cell.

There have been numerous other interim and permanent actions taken to limit PFAS reaching the Cape Fear River prior to this baseline period, i.e., air abatement measures (installation of the thermal oxidizer and carbon beds, etc.), grouting of the terracotta pipe, sediment removal from channels, among others, and these may not be captured in this captured mass load calculation but should be considered in the overall assessment of PFAS reductions.

#### Calculation of Mass Captured at Old Outfall 002 Treatment System

During the 2020 Q4 reporting period (October to December 2020) the Old Outfall 002 treatment system began to discharge treated water on October 1, 2020. Equation 7 below describes the calculation for the captured mass from the Old Outfall 002.

#### ***Equation 7: Captured Mass Load at Old Outfall 002 Treatment System (Outfall 003)***

$$m_{003} = \sum_n m_{003,n,inf} - m_{003,n,eff} = \sum_n \left( \sum_i^I c_{inf,n,i} Q_{inf,n} - \sum_i^I c_{eff,n,i} Q_{eff,n} \right)$$

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where,

$m_{003}$  = is the Captured Total PFAS Mass Load prevented from reaching the Cape Fear River by the Old Outfall 002 treatment system, i.e., Outfall 003, in a monitoring period, measured in kg;

$m_{003,inf}$  = is the calculated total mass load at the influent of Outfall 003, measured in kg;

$m_{003,eff}$  = is the calculated total mass load at the effluent of Outfall 003, measured in kg;

$n$  = represents individual time intervals during a monitoring period, e.g., monthly samples collected in a quarter;

$N$  = represents the total number of time intervals during a monitoring period;

$c_{inf,n,i}$  = is the concentration of the  $i^{th}$  PFAS compound based on the sample collected at the influent of Outfall 003 for a given time interval  $n$ ;

$Q_{inf,n}$  = is the total measured flow at the influent of Outfall 003 in a given time interval  $n$ ;

$c_{eff,n,i}$  = is the concentration of the  $i^{th}$  PFAS compound based on the sample collected at the effluent of Outfall 003 for a given time interval  $n$ ;

$Q_{eff,n}$  = is the total measured flow at the effluent of Outfall 003 in a given time interval  $n$  (assumed to be the same as the total measured flow at the influent);

$i$  = represents each of the PFAS constituents being evaluated; and

$I$  = represents total number of PFAS compounds included in the summation of total PFAS concentrations.

The analytical and flow data used to calculate the total mass load at the influent and the effluent of Outfall 003 are provided in Table B1 and Table B2.

### Onsite Seeps Flow Through Cell Calculations

During the 2020 Q4 reporting period (October to December 2020) Seep C treatment system began to discharge treated water on December 16, 2020. The Total PFAS mass load captured by Seep C is calculated using Equation 8.

#### **Equation 8: Captured Mass Load at Seep Flow-Through Cells**

$$m_{FTC} = \sum_n^N m_{FTC,n,inf} - m_{FTC,n,eff} = \sum_n^N \left( \sum_i^I c_{inf,n,i} Q_{inf,n} - \sum_i^I c_{eff,n,i} Q_{eff,n} \right)$$

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where,

$m_{FTC}$  = is the Captured Total PFAS Mass Load prevented from reaching the Cape Fear River by a Seep flow through cell, in a monitoring period, measured in kg;

$m_{FTC,inf}$  = is the calculated total mass load at the influent of a Seep flow through cell, measured in kg;

$m_{FTCeff}$  = is the calculated total mass load at the effluent of a Seep flow through cell, measured in kg;

$n$  = represents individual time intervals during a monitoring period, e.g., bimonthly samples collected in a quarter;

$N$  = represents the total number of time intervals during a monitoring period;

$c_{inf,n,i}$  = is the concentration of the  $i^{th}$  PFAS compound based on the sample collected at the influent of a Seep flow through cell for a given time interval  $n$ ;

$Q_{inf,n}$  = is the total measured flow at the influent of a Seep flow through cell in a given time interval  $n$ ;

$c_{eff,n,i}$  = is the concentration of the  $i^{th}$  PFAS compound based on the sample collected at the effluent of a Seep flow through cell for a given time interval  $n$ ;

$Q_{eff,n}$  = is the total measured flow at the effluent of a Seep flow through cell in a given time interval  $n$  (assumed to be the same as the total measured flow at the influent);

$i$  = represents each of the PFAS constituents being evaluated; and

$I$  = represents total number of PFAS compounds included in the summation of total PFAS concentrations.

The analytical data and flow used to calculate the total mass load at the influent and the effluent of Seep C Flow-Through Cell are provided in Table B1 and B3.

### **Mass Discharge at Bladen Bluffs and Kings Bluff Intakes**

This subsection presents the methodology used to calculate mass discharge at Bladen Bluffs and Kings Bluff Intakes. Total PFAS mass discharge is calculated as:

***Equation 9: Mass Discharge at Bladen Bluffs and Kings Bluff Intakes***

$$M_{BB/KB} = \sum_{i=1}^I M_i = \sum_{i=1}^I C_i \times Q$$

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where,

$M_{BB/KB}$  = Total PFAS mass in the downstream river locations (Bladen Bluffs or Kings Bluff Intakes) measured in mass per unit time [ $MT^{-1}$ ], typically mg/s;

$i$  = represents each of the PFAS constituents being evaluated;

$I$  = represents total number of PFAS constituents included in the summation of Total PFAS concentrations;

$M_i$  = mass load of each PFAS constituent  $i$  with measured units in mass per unit time [ $MT^{-1}$ ], typically mg/s;

$C_i$  = concentration of each PFAS constituent  $i$  with measured units typically in nanograms per liter; and

$Q$  = volumetric flow rate with measured units in volume per time [ $L^3T^{-1}$ ], typically liters per second (L/s). For Bladen Bluffs, the volumetric flow recorded at W.O. Huske Dam is adjusted for travel time using Equation 10.

**Equation 11: Travel time offset W.O. Huske Dam to Bladen Bluffs Intake**

$$t_{offset} = 8,826 \cdot Q_{WOHD}^{-1} + 1.530$$

where,

$t_{offset}$  = is the travel time flow in the Cape Fear River takes in hours to pass from the W.O. Huske Dam to Bladen Bluffs Intake location based on the measured flow in the Cape Fear River at the W.O. Huske Dam;

$Q_{WOHD}^{-1}$  = is the inverse of the measured flow rate of the Cape Fear River at W.O. Huske Dam for a given point in time in cubic feet per second; and

8,826 and 1.530 = are constant values, which correspond to the slope and intercept of the regression line, respectively.

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# TABLES



**TABLE B1**  
**OUTFALL 003 AND SEEP C INFLUENT AND EFFLUENT ANALYTICAL RESULTS**  
 Chemours Fayetteville Works, North Carolina

Location ID	Outfall 003 Influent	Outfall 003 Effluent	Outfall 003 Influent	Outfall 003 Effluent	Outfall 003 Influent	Outfall 003 Effluent	Seep C Influent	Seep C Effluent	Seep C Influent	Seep C Effluent
Field Sample ID	Influent-1020	Outfall 003-1020	Influent-1120	Outfall 003-1120	Influent-1220	Outfall 003-1220	SEEP-C-INFLUENT-114-123020	SEEP-C-EFFLUENT-114-123020	SEEP-C-INFLUENT-24-123120	SEEP-C-EFFLUENT-24-123120
Sample Date	10/08/2020	10/08/2020	11/05/2020	11/05/2020	12/08/2020	12/08/2020	12/30/2020	12/30/2020	12/31/2020	12/31/2020
QA/QC										
Sample Delivery Group (SDG)	410-16810-1	410-16810-1	410-20066-1	410-20066-1	410-23337-1	410-23337-1	320-68396-1	320-68396-1	320-68542-1	320-68542-1
Lab Sample ID	410-16810-2	410-16810-3	410-20066-1	410-20066-2	410-23337-2	410-23337-3	320-68396-3	320-68396-4	320-68542-1	320-68542-2
<b>Table 3+ SOP (ng/L)</b>										
Hfpo Dimer Acid	4600 J	<2	6200	<2	4500	<2	19000	<81	19000	<81
PFMOAA	56000 J	<2	58000	<2	50000	16	96000	<80	74000	<80
PFO2HxA	14000 J	<2	12000	<2	12000	<2	27000	<27	23000	130 J
PFO3OA	3800 J	<2	3900	<2	2900	<2	7600	<39	7000	<39
PFO4DA	1100 J	<2	1400	<2	910	<2	2000	<59	2400	<59
PFO5DA	730 J	<2	680	<2	600	<2	<78	<78	<78	<78
PMPA	5300 J	<10	6000	<10	4700	<10	9700	640	8900	<620
PEPA	1400 J	<20	1900	<20	1400	<20	3000	<16	2900	<16
PS Acid	280 J	<2	910	<2	880	<2	<20	<20	64	75
Hydro-PS Acid	270 J	<2	350	<2	310	<2	370	<6.1	340	<6.1
R-PSDA	540 J	<2	360	<2	680	<2	1000	<71	820 J	<71
Hydrolyzed PSDA	1500 J	<2	1800	<2	2000	<2	1300	<38	1200 J	<38
R-PSDCA	9.5 J	<2	<20	<2	8.9	<2	17	<17	<17	<17
NVHOS	520 J	<2	550	<2	460	<2	850	<15	770	<15
EVE Acid	14 J	<2	40	<2	56	<2	<17	<17	<17	<17
Hydro-EVE Acid	180 J	<2	180	<2	160	<2	1500	<14	1300	<14
R-EVE	230 J	<2	190	<2	230	<2	970	<72	900	<72
PES	<2	<2	<20	<2	<2	<2	<6.7	<6.7	<6.7	<6.7
PFECA B	<2	<2	<20	<2	<2	<2	<27	<27	<27	<27
PFECA-G	<2	<2	<20	<2	<2	<2	<48	<48	<48	<48
<b>Total Attachment C<sup>1</sup></b>	<b>87,000</b>	ND	<b>91,000</b>	ND	<b>78,000</b>	<b>16</b>	<b>160,000</b>	<b>640</b>	<b>140,000</b>	<b>210</b>
<b>Total Table 3+ (17 compounds)<sup>2</sup></b>	<b>88,000</b>	ND	<b>92,000</b>	ND	<b>79,000</b>	<b>16</b>	<b>170,000</b>	<b>640</b>	<b>140,000</b>	<b>210</b>
<b>Total Table 3+ (20 compounds)</b>	<b>90,000</b>	ND	<b>94,000</b>	ND	<b>82,000</b>	<b>16</b>	<b>170,000</b>	<b>640</b>	<b>140,000</b>	<b>210</b>

**TABLE B1**  
**OUTFALL 003 AND SEEP C INFLUENT AND EFFLUENT ANALYTICAL RESULTS**  
 Chemours Fayetteville Works, North Carolina

Location ID	Seep C Effluent
Field Sample ID	SEEP-C-EFFLUENT-24-123120-D
Sample Date	12/31/2020
QA/QC	Field Duplicate
Sample Delivery Group (SDG)	320-68542-1
Lab Sample ID	320-68542-3
<b>Table 3+ SOP (ng/L)</b>	
Hfpo Dimer Acid	<81
PFMOAA	<80
PFO2HxA	<b>100 J</b>
PFO3OA	<39
PFO4DA	<59
PFO5DA	<78
PMPA	<620
PEPA	<16
PS Acid	<b>66</b>
Hydro-PS Acid	<6.1
R-PSDA	<71
Hydrolyzed PSDA	<38
R-PSDCA	<17
NVHOS	<15
EVE Acid	<17
Hydro-EVE Acid	<14
R-EVE	<72
PES	<6.7
PFECA B	<27
PFECA-G	<48
<b>Total Attachment C<sup>1</sup></b>	<b>170</b>
<b>Total Table 3+ (17 compounds)<sup>2</sup></b>	<b>170</b>
<b>Total Table 3+ (20 compounds)</b>	<b>170</b>

*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 analyzed
  
- 1 - Total Attachment C does not include Perfluorheptanoic acid (PFHpA).
- 2 - Total Table 3+ (17 compounds) does not include R-PSDA, Hydrolyzed, PSDA, and R-EVE.

**TABLE B2**  
**OUTFALL 003 FLOWS**  
 Chemours Fayetteville Works, North Carolina

<b>Date</b>	<b>Total Flow (gallon)</b>
10-01-2020	310,348
10-02-2020	1,023,622
10-03-2020	878,751
10-04-2020	838,037
10-05-2020	844,398
10-06-2020	865,633
10-07-2020	816,973
10-08-2020	832,203
10-09-2020	807,871
10-10-2020	836,691
10-11-2020	867,925
10-12-2020	825,746
10-13-2020	890,832
10-14-2020	645,143
10-15-2020	550,706
10-16-2020	489,745
10-17-2020	550,267
10-18-2020	402,977
10-19-2020	414,318
10-20-2020	516,339
10-21-2020	565,558
10-22-2020	894,610
10-23-2020	830,896
10-24-2020	881,641
10-25-2020	894,813
10-26-2020	871,639
10-27-2020	905,928
10-28-2020	856,604
10-29-2020	845,925
10-30-2020	875,709
10-31-2020	848,131
11-01-2020	839,310
11-02-2020	855,261
11-03-2020	882,539
11-04-2020	815,136
11-05-2020	837,983
11-06-2020	812,159
11-07-2020	715,437
11-08-2020	963,234
11-09-2020	699,351
11-10-2020	880,293
11-11-2020	907,905
11-12-2020	927,545
11-13-2020	866,259
11-14-2020	162,702

**TABLE B2**  
**OUTFALL 003 FLOWS**  
 Chemours Fayetteville Works, North Carolina

11-15-2020	24,917
11-16-2020	0
11-17-2020	0
11-18-2020	199,088
11-19-2020	893,838
11-20-2020	893,833
11-21-2020	971,788
11-22-2020	989,935
11-23-2020	950,946
11-24-2020	856,675
11-25-2020	935,269
01-26-2020	804,443
11-27-2020	861,236
11-28-2020	831,652
11-29-2020	847,062
11-30-2020	895,860
12-01-2020	869,428
12-02-2020	1,035,972
12-03-2020	926,940
12-04-2020	902,236
12-05-2020	1,015,273
12-06-2020	939,971
12-07-2020	1,037,006
12-08-2020	958,773
12-09-2020	1,020,139
12-10-2020	933,334
12-11-2020	971,799
12-12-2020	936,276
12-13-2020	995,373
12-14-2020	972,008
12-15-2020	1,060,455
12-16-2020	1,062,866
12-17-2020	1,035,398
12-18-2020	1,075,369
12-19-2020	1,005,090
12-20-2020	1,009,832
12-21-2020	1,060,910
12-22-2020	1,072,140
12-23-2020	1,040,937
12-24-2020	1,035,591
12-25-2020	1,079,602
12-26-2020	904,415
12-27-2020	1,002,470
12-28-2020	1,019,122
12-29-2020	1,073,371
12-30-2020	1,032,660
12-31-2020	1,069,100

**TABLE B2**  
**OUTFALL 003 FLOWS**  
 Chemours Fayetteville Works, North Carolina

<b>Date and Time</b>	<b>Total Flow (gallon)</b>
12-18-2020 9:15	1,079
12-18-2020 9:30	1,326
12-18-2020 9:45	1,354
12-18-2020 10:00	1,343
12-18-2020 10:15	1,343
12-18-2020 10:30	1,542
12-18-2020 10:45	2,028
12-18-2020 11:00	1,884
12-18-2020 11:15	2,420
12-18-2020 11:30	2,307
12-18-2020 11:45	2,016
12-18-2020 12:00	1,847
12-18-2020 12:15	1,553
12-18-2020 12:30	1,677
12-18-2020 12:45	1,399
12-18-2020 13:00	1,084
12-18-2020 13:15	1,331
12-18-2020 13:30	1,043
12-18-2020 13:45	1,201
12-18-2020 14:00	1,116
12-18-2020 14:15	1,244
12-18-2020 14:30	1,370
12-18-2020 14:45	1,105
12-18-2020 15:00	1,293
12-18-2020 15:15	1,255
12-18-2020 15:30	1,233
12-18-2020 15:45	1,365
12-18-2020 16:00	1,455
12-18-2020 16:15	1,444
12-18-2020 16:30	1,461
12-18-2020 16:45	1,432
12-18-2020 17:00	1,404
12-18-2020 17:15	1,404
12-18-2020 17:30	1,387
12-18-2020 17:45	1,343
12-18-2020 18:00	1,326
12-18-2020 18:15	1,298
12-18-2020 18:30	1,293
12-18-2020 18:45	1,271
12-18-2020 19:00	1,255
12-18-2020 19:15	1,271
12-18-2020 19:30	1,255
12-18-2020 19:45	1,282
12-18-2020 20:00	1,304
12-18-2020 20:15	1,331

**TABLE B2**  
**OUTFALL 003 FLOWS**  
 Chemours Fayetteville Works, North Carolina

12-18-2020 20:30	1,348
12-18-2020 20:45	1,365
12-18-2020 21:00	1,410
12-18-2020 21:15	1,438
12-18-2020 21:30	1,490
12-18-2020 21:45	1,513
12-18-2020 22:00	1,370
12-18-2020 22:15	1,315
12-18-2020 22:30	1,184
12-18-2020 22:45	1,059
12-18-2020 23:00	977
12-18-2020 23:15	908
12-18-2020 23:30	1,126
12-18-2020 23:45	1,131
12-19-2020 0:00	1,163
12-19-2020 0:15	1,169
12-19-2020 0:30	1,190
12-19-2020 0:45	1,195
12-19-2020 1:00	1,233
12-19-2020 1:15	1,227
12-19-2020 1:30	1,217
12-19-2020 1:45	1,359
12-19-2020 2:00	1,370
12-19-2020 2:15	1,320
12-19-2020 2:30	1,211
12-19-2020 2:45	1,090
12-19-2020 3:00	1,038
12-19-2020 3:15	952
12-19-2020 3:30	957
12-19-2020 3:45	869
12-19-2020 4:00	1,126
12-19-2020 4:15	1,147
12-19-2020 4:30	1,184
12-19-2020 4:45	1,201
12-19-2020 5:00	1,190
12-19-2020 5:15	1,244
12-19-2020 5:30	1,244
12-19-2020 5:45	1,260
12-19-2020 6:00	1,265
12-19-2020 6:15	1,282
12-19-2020 6:30	1,304
12-19-2020 6:45	1,320
12-19-2020 7:00	1,320
12-19-2020 7:15	1,320
12-19-2020 7:30	1,421
12-19-2020 7:45	1,410

**TABLE B2**  
**OUTFALL 003 FLOWS**  
 Chemours Fayetteville Works, North Carolina

12-19-2020 8:00	1,438
12-19-2020 8:15	1,427
12-19-2020 8:30	1,467
12-19-2020 8:45	1,553
12-19-2020 9:00	1,749
12-19-2020 9:15	1,518
12-19-2020 9:30	1,432
12-19-2020 9:45	1,217
12-19-2020 10:00	1,201
12-19-2020 10:15	1,282
12-19-2020 10:30	1,287
12-19-2020 10:45	1,387
12-19-2020 11:00	1,227
12-19-2020 11:15	1,872
12-19-2020 11:30	1,707
12-19-2020 11:45	1,518
12-19-2020 12:00	1,501
12-19-2020 12:15	1,792
12-19-2020 12:30	1,841
12-19-2020 12:45	1,890
12-19-2020 13:00	1,890
12-19-2020 13:15	1,903
12-19-2020 13:30	1,940
12-19-2020 13:45	1,997
12-19-2020 14:00	1,959
12-19-2020 14:15	2,447
12-19-2020 14:30	2,294
12-19-2020 14:45	2,028
12-19-2020 15:00	1,878
12-19-2020 15:15	1,990
12-19-2020 15:30	2,060
12-19-2020 15:45	2,274
12-19-2020 16:00	2,327
12-19-2020 16:15	2,307
12-19-2020 16:30	2,267
12-19-2020 16:45	2,287
12-19-2020 17:00	2,215
12-19-2020 17:15	2,202
12-19-2020 17:30	2,195
12-19-2020 17:45	2,222
12-19-2020 18:00	2,189
12-19-2020 18:15	2,163
12-19-2020 18:30	2,086
12-19-2020 18:45	2,144
12-19-2020 19:00	2,131
12-19-2020 19:15	2,118

**TABLE B2**  
**OUTFALL 003 FLOWS**  
 Chemours Fayetteville Works, North Carolina

12-19-2020 19:30	2,099
12-19-2020 19:45	2,073
12-19-2020 20:00	2,105
12-19-2020 20:15	2,003
12-19-2020 20:30	1,921
12-19-2020 20:45	1,903
12-19-2020 21:00	1,909
12-19-2020 21:15	1,859
12-19-2020 21:30	1,780
12-19-2020 21:45	1,774
12-19-2020 22:00	1,798
12-19-2020 22:15	1,810
12-19-2020 22:30	1,804
12-19-2020 22:45	1,878
12-19-2020 23:00	1,780
12-19-2020 23:15	1,755
12-19-2020 23:30	1,749
12-19-2020 23:45	1,743
12-20-2020 0:00	1,743
12-20-2020 0:15	1,859
12-20-2020 0:30	1,695
12-20-2020 0:45	1,853
12-20-2020 1:00	1,934
12-20-2020 1:15	1,928
12-20-2020 1:30	1,872
12-20-2020 1:45	1,683
12-20-2020 2:00	1,743
12-20-2020 2:15	1,677
12-20-2020 2:30	1,701
12-20-2020 2:45	1,713
12-20-2020 3:00	1,653
12-20-2020 3:15	1,701
12-20-2020 3:30	1,915
12-20-2020 3:45	1,878
12-20-2020 4:00	1,903
12-20-2020 4:15	1,921
12-20-2020 4:30	1,953
12-20-2020 4:45	2,009
12-20-2020 5:00	1,940
12-20-2020 5:15	1,959
12-20-2020 5:30	1,990
12-20-2020 5:45	1,940
12-20-2020 6:00	1,965
12-20-2020 6:15	2,054
12-20-2020 6:30	1,928
12-20-2020 6:45	1,903



**TABLE B2**  
**OUTFALL 003 FLOWS**  
 Chemours Fayetteville Works, North Carolina

12-20-2020 7:00	1,965
12-20-2020 7:15	1,953
12-20-2020 7:30	1,822
12-20-2020 7:45	1,731
12-20-2020 8:00	1,701
12-20-2020 8:15	1,743
12-20-2020 8:30	1,786
12-20-2020 8:45	1,841
12-20-2020 9:00	1,972
12-20-2020 9:15	2,124
12-20-2020 9:30	2,274
12-20-2020 9:45	2,327
12-20-2020 10:00	2,440
12-20-2020 10:15	2,659
12-20-2020 10:30	2,770
12-20-2020 10:45	2,826
12-20-2020 11:00	2,904
12-20-2020 11:15	2,925
12-20-2020 11:30	2,933
12-20-2020 11:45	2,918
12-20-2020 12:00	2,869
12-20-2020 12:15	2,983
12-20-2020 12:30	2,904
12-20-2020 12:45	2,911
12-20-2020 13:00	2,890
12-20-2020 13:15	2,925
12-20-2020 13:30	2,847
12-20-2020 13:45	2,840
12-20-2020 14:00	2,798
12-20-2020 14:15	2,763
12-20-2020 14:30	2,784
12-20-2020 14:45	2,770
12-20-2020 15:00	2,749
12-20-2020 15:15	2,693
12-20-2020 15:30	2,693
12-20-2020 15:45	2,707
12-20-2020 16:00	2,693
12-20-2020 16:15	2,645
12-20-2020 16:30	2,583
12-20-2020 16:45	2,583
12-20-2020 17:00	2,522
12-20-2020 17:15	2,562
12-20-2020 17:30	2,494
12-20-2020 17:45	2,420
12-20-2020 18:00	2,367
12-20-2020 18:15	2,340

**TABLE B2**  
**OUTFALL 003 FLOWS**  
 Chemours Fayetteville Works, North Carolina

12-20-2020 18:30	2,267
12-20-2020 18:45	2,235
12-20-2020 19:00	2,274
12-20-2020 19:15	2,195
12-20-2020 19:30	2,215
12-20-2020 19:45	2,228
12-20-2020 20:00	2,300
12-20-2020 20:15	2,254
12-20-2020 20:30	2,267
12-20-2020 20:45	2,189
12-20-2020 21:00	2,222
12-20-2020 21:15	2,228
12-20-2020 21:30	2,176
12-20-2020 21:45	2,195
12-20-2020 22:00	2,195
12-20-2020 22:15	2,150
12-20-2020 22:30	2,131
12-20-2020 22:45	2,111
12-20-2020 23:00	2,131
12-20-2020 23:15	2,067
12-20-2020 23:30	2,073
12-20-2020 23:45	2,169
12-21-2020 0:00	2,144
12-21-2020 0:15	2,169
12-21-2020 0:30	2,073
12-21-2020 0:45	1,940
12-21-2020 1:00	2,041
12-21-2020 1:15	2,022
12-21-2020 1:30	2,047
12-21-2020 1:45	2,067
12-21-2020 2:00	1,940
12-21-2020 2:15	1,946
12-21-2020 2:30	1,934
12-21-2020 2:45	1,959
12-21-2020 3:00	1,897
12-21-2020 3:15	1,946
12-21-2020 3:30	1,915
12-21-2020 3:45	1,847
12-21-2020 4:00	1,804
12-21-2020 4:15	1,816
12-21-2020 4:30	1,774
12-21-2020 4:45	1,761
12-21-2020 5:00	1,701
12-21-2020 5:15	1,683
12-21-2020 5:30	1,677
12-21-2020 5:45	1,647

**TABLE B2**  
**OUTFALL 003 FLOWS**  
 Chemours Fayetteville Works, North Carolina

12-21-2020 6:00	1,612
12-21-2020 6:15	1,612
12-21-2020 6:30	1,577
12-21-2020 6:45	1,542
12-21-2020 7:00	1,518
12-21-2020 7:15	1,588
12-21-2020 7:30	1,743
12-21-2020 7:45	1,707
12-21-2020 8:00	1,671
12-21-2020 8:15	1,588
12-21-2020 8:30	1,524
12-21-2020 8:45	1,606
12-21-2020 9:00	0
12-21-2020 9:15	0
12-21-2020 9:30	0
12-21-2020 9:45	0
12-21-2020 10:00	0
12-21-2020 10:15	903
12-21-2020 10:30	1,260
12-21-2020 10:45	1,659
12-21-2020 11:00	1,903
12-21-2020 11:15	1,990
12-21-2020 11:30	1,810
12-21-2020 11:45	1,903
12-21-2020 12:00	2,054
12-21-2020 12:15	2,169
12-21-2020 12:30	2,314
12-21-2020 12:45	1,909
12-21-2020 13:00	1,582
12-21-2020 13:15	1,484
12-21-2020 13:30	1,636
12-21-2020 13:45	1,455
12-21-2020 14:00	1,461
12-21-2020 14:15	1,659
12-21-2020 14:30	1,444
12-21-2020 14:45	1,359
12-21-2020 15:00	1,365
12-21-2020 15:15	1,370
12-21-2020 15:30	1,478
12-21-2020 15:45	1,530
12-21-2020 16:00	1,624
12-21-2020 16:15	1,653
12-21-2020 16:30	1,653
12-21-2020 16:45	1,594
12-21-2020 17:00	1,495
12-21-2020 17:15	1,450

**TABLE B2**  
**OUTFALL 003 FLOWS**  
 Chemours Fayetteville Works, North Carolina

12-21-2020 17:30	1,444
12-21-2020 17:45	1,404
12-21-2020 18:00	1,404
12-21-2020 18:15	1,309
12-21-2020 18:30	1,293
12-21-2020 18:45	1,331
12-21-2020 19:00	1,315
12-21-2020 19:15	1,393
12-21-2020 19:30	1,315
12-21-2020 19:45	1,298
12-21-2020 20:00	1,233
12-21-2020 20:15	1,227
12-21-2020 20:30	1,126
12-21-2020 20:45	1,074
12-21-2020 21:00	1,028
12-21-2020 21:15	997
12-21-2020 21:30	942
12-21-2020 21:45	859
12-21-2020 22:00	797
12-21-2020 22:15	835
12-21-2020 22:30	831
12-21-2020 22:45	783
12-21-2020 23:00	769
12-21-2020 23:15	728
12-21-2020 23:30	737
12-21-2020 23:45	977
12-22-2020 0:00	1,033
12-22-2020 0:15	1,043
12-22-2020 0:30	1,043
12-22-2020 0:45	1,028
12-22-2020 1:00	1,023
12-22-2020 1:15	1,038
12-22-2020 1:30	1,059
12-22-2020 1:45	1,074
12-22-2020 2:00	1,059
12-22-2020 2:15	1,100
12-22-2020 2:30	1,074
12-22-2020 2:45	1,090
12-22-2020 3:00	1,079
12-22-2020 3:15	1,074
12-22-2020 3:30	1,084
12-22-2020 3:45	1,084
12-22-2020 4:00	1,095
12-22-2020 4:15	1,084
12-22-2020 4:30	1,084
12-22-2020 4:45	1,069

**TABLE B2**  
**OUTFALL 003 FLOWS**  
 Chemours Fayetteville Works, North Carolina

12-22-2020 5:00	1,095
12-22-2020 5:15	1,053
12-22-2020 5:30	1,059
12-22-2020 5:45	1,095
12-22-2020 6:00	1,090
12-22-2020 6:15	1,079
12-22-2020 6:30	1,059
12-22-2020 6:45	1,074
12-22-2020 7:00	1,105
12-22-2020 7:15	1,079
12-22-2020 7:30	1,084
12-22-2020 7:45	1,095
12-22-2020 8:00	1,095
12-22-2020 8:15	1,121
12-22-2020 8:30	1,169
12-22-2020 8:45	1,142
12-22-2020 9:00	1,359
12-22-2020 9:15	1,201
12-22-2020 9:30	1,343
12-22-2020 9:45	1,271
12-22-2020 10:00	1,331
12-22-2020 10:15	1,365
12-22-2020 10:30	1,393
12-22-2020 10:45	1,387
12-22-2020 11:00	1,326
12-22-2020 11:15	1,612
12-22-2020 11:30	1,365
12-22-2020 11:45	1,158
12-22-2020 12:00	1,271
12-22-2020 12:15	1,271
12-22-2020 12:30	1,304
12-22-2020 12:45	1,038
12-22-2020 13:00	1,095
12-22-2020 13:15	826
12-22-2020 13:30	947
12-22-2020 13:45	864
12-22-2020 14:00	888
12-22-2020 14:15	1,064
12-22-2020 14:30	774
12-22-2020 14:45	728
12-22-2020 15:00	587
12-22-2020 15:15	591
12-22-2020 15:30	879
12-22-2020 15:45	1,013
12-22-2020 16:00	1,100
12-22-2020 16:15	1,110

**TABLE B2**  
**OUTFALL 003 FLOWS**  
 Chemours Fayetteville Works, North Carolina

12-22-2020 16:30	1,121
12-22-2020 16:45	1,084
12-22-2020 17:00	1,090
12-22-2020 17:15	1,074
12-22-2020 17:30	1,105
12-22-2020 17:45	1,110
12-22-2020 18:00	1,110
12-22-2020 18:15	1,110
12-22-2020 18:30	1,126
12-22-2020 18:45	1,126
12-22-2020 19:00	1,126
12-22-2020 19:15	1,142
12-22-2020 19:30	1,137
12-22-2020 19:45	1,142
12-22-2020 20:00	1,147
12-22-2020 20:15	1,137
12-22-2020 20:30	1,147
12-22-2020 20:45	1,142
12-22-2020 21:00	1,147
12-22-2020 21:15	1,265
12-22-2020 21:30	1,260
12-22-2020 21:45	1,255
12-22-2020 22:00	1,287
12-22-2020 22:15	1,217
12-22-2020 22:30	1,142
12-22-2020 22:45	1,084
12-22-2020 23:00	1,002
12-22-2020 23:15	957
12-22-2020 23:30	937
12-22-2020 23:45	854
12-23-2020 0:00	859
12-23-2020 0:15	821
12-23-2020 0:30	788
12-23-2020 0:45	756
12-23-2020 1:00	678
12-23-2020 1:15	696
12-23-2020 1:30	634
12-23-2020 1:45	898
12-23-2020 2:00	918
12-23-2020 2:15	947
12-23-2020 2:30	937
12-23-2020 2:45	972
12-23-2020 3:00	982
12-23-2020 3:15	982
12-23-2020 3:30	987
12-23-2020 3:45	992

**TABLE B2**  
**OUTFALL 003 FLOWS**  
 Chemours Fayetteville Works, North Carolina

12-23-2020 4:00	992
12-23-2020 4:15	1,008
12-23-2020 4:30	1,008
12-23-2020 4:45	1,002
12-23-2020 5:00	997
12-23-2020 5:15	1,008
12-23-2020 5:30	1,033
12-23-2020 5:45	1,028
12-23-2020 6:00	1,033
12-23-2020 6:15	1,053
12-23-2020 6:30	1,053
12-23-2020 6:45	1,053
12-23-2020 7:00	1,074
12-23-2020 7:15	1,079
12-23-2020 7:30	1,074
12-23-2020 7:45	1,105
12-23-2020 8:00	1,169
12-23-2020 8:15	1,163
12-23-2020 8:30	1,211
12-23-2020 8:45	1,142
12-23-2020 9:00	1,238
12-23-2020 9:15	1,211
12-23-2020 9:30	1,304
12-23-2020 9:45	1,348
12-23-2020 10:00	1,217
12-23-2020 10:15	1,315
12-23-2020 10:30	1,276
12-23-2020 10:45	1,315
12-23-2020 11:00	1,293
12-23-2020 11:15	1,612
12-23-2020 11:30	1,421
12-23-2020 11:45	1,432
12-23-2020 12:00	1,370
12-23-2020 12:15	1,359
12-23-2020 12:30	1,450
12-23-2020 12:45	1,320
12-23-2020 13:00	1,244
12-23-2020 13:15	1,249
12-23-2020 13:30	1,074
12-23-2020 13:45	1,137
12-23-2020 14:00	1,074
12-23-2020 14:15	1,315
12-23-2020 14:30	1,337
12-23-2020 14:45	1,244
12-23-2020 15:00	1,309
12-23-2020 15:15	1,244

**TABLE B2**  
**OUTFALL 003 FLOWS**  
 Chemours Fayetteville Works, North Carolina

12-23-2020 15:30	1,415
12-23-2020 15:45	1,399
12-23-2020 16:00	1,438
12-23-2020 16:15	1,461
12-23-2020 16:30	1,444
12-23-2020 16:45	1,432
12-23-2020 17:00	1,404
12-23-2020 17:15	1,399
12-23-2020 17:30	1,376
12-23-2020 17:45	1,376
12-23-2020 18:00	1,370
12-23-2020 18:15	1,376
12-23-2020 18:30	1,376
12-23-2020 18:45	1,370
12-23-2020 19:00	1,370
12-23-2020 19:15	1,337
12-23-2020 19:30	1,320
12-23-2020 19:45	1,365
12-23-2020 20:00	1,399
12-23-2020 20:15	1,547
12-23-2020 20:30	1,547
12-23-2020 20:45	1,618
12-23-2020 21:00	1,689
12-23-2020 21:15	1,695
12-23-2020 21:30	1,810
12-23-2020 21:45	1,946
12-23-2020 22:00	1,928
12-23-2020 22:15	1,822
12-23-2020 22:30	1,853
12-23-2020 22:45	1,928
12-23-2020 23:00	1,972
12-23-2020 23:15	1,903
12-23-2020 23:30	1,890
12-23-2020 23:45	1,897
12-24-2020 0:00	1,293
12-24-2020 0:15	1,293
12-24-2020 0:30	1,293
12-24-2020 0:45	1,293
12-24-2020 1:00	1,293
12-24-2020 1:15	1,293
12-24-2020 1:30	1,293
12-24-2020 1:45	1,293
12-24-2020 2:00	1,293
12-24-2020 2:15	1,293
12-24-2020 2:30	1,293
12-24-2020 2:45	1,293



**TABLE B2**  
**OUTFALL 003 FLOWS**  
 Chemours Fayetteville Works, North Carolina

12-24-2020 3:00	1,293
12-24-2020 3:15	1,293
12-24-2020 3:30	1,293
12-24-2020 3:45	1,293
12-24-2020 4:00	1,293
12-24-2020 4:15	1,293
12-24-2020 4:30	1,293
12-24-2020 4:45	1,293
12-24-2020 5:00	1,293
12-24-2020 5:15	1,293
12-24-2020 5:30	1,293
12-24-2020 5:45	1,293
12-24-2020 6:00	1,293
12-24-2020 6:15	1,293
12-24-2020 6:30	1,293
12-24-2020 6:45	1,293
12-24-2020 7:00	1,293
12-24-2020 7:15	1,293
12-24-2020 7:30	1,293
12-24-2020 7:45	1,293
12-24-2020 8:00	1,293
12-24-2020 8:15	1,293
12-24-2020 8:30	1,293
12-24-2020 8:45	1,293
12-24-2020 9:00	1,293
12-24-2020 9:15	1,293
12-24-2020 9:30	1,293
12-24-2020 9:45	1,293
12-24-2020 10:00	1,293
12-24-2020 10:15	1,293
12-24-2020 10:30	1,293
12-24-2020 10:45	1,293
12-24-2020 11:00	1,293
12-24-2020 11:15	1,293
12-24-2020 11:30	1,293
12-24-2020 11:45	1,293
12-24-2020 12:00	1,293
12-24-2020 12:15	1,293
12-24-2020 12:30	1,293
12-24-2020 12:45	1,293
12-24-2020 13:00	1,293
12-24-2020 13:15	1,293
12-24-2020 13:30	1,293
12-24-2020 13:45	1,293
12-24-2020 14:00	1,293
12-24-2020 14:15	1,293

**TABLE B2**  
**OUTFALL 003 FLOWS**  
 Chemours Fayetteville Works, North Carolina

12-24-2020 14:30	1,293
12-24-2020 14:45	1,293
12-24-2020 15:00	1,293
12-24-2020 15:15	1,293
12-24-2020 15:30	1,293
12-24-2020 15:45	1,293
12-24-2020 16:00	1,293
12-24-2020 16:15	1,293
12-24-2020 16:30	1,293
12-24-2020 16:45	1,293
12-24-2020 17:00	1,293
12-24-2020 17:15	1,293
12-24-2020 17:30	1,293
12-24-2020 17:45	1,293
12-24-2020 18:00	1,293
12-24-2020 18:15	1,293
12-24-2020 18:30	1,293
12-24-2020 18:45	1,293
12-24-2020 19:00	1,293
12-24-2020 19:15	1,293
12-24-2020 19:30	1,293
12-24-2020 19:45	1,293
12-24-2020 20:00	1,293
12-24-2020 20:15	1,293
12-24-2020 20:30	1,293
12-24-2020 20:45	1,293
12-24-2020 21:00	1,293
12-24-2020 21:15	1,293
12-24-2020 21:30	1,293
12-24-2020 21:45	1,293
12-24-2020 22:00	1,293
12-24-2020 22:15	1,293
12-24-2020 22:30	1,293
12-24-2020 22:45	1,293
12-24-2020 23:00	1,293
12-24-2020 23:15	1,293
12-24-2020 23:30	1,293
12-24-2020 23:45	1,293
12-25-2020 0:00	1,293
12-25-2020 0:15	1,293
12-25-2020 0:30	1,293
12-25-2020 0:45	1,293
12-25-2020 1:00	1,293
12-25-2020 1:15	1,293
12-25-2020 1:30	1,293
12-25-2020 1:45	1,293

**TABLE B2**  
**OUTFALL 003 FLOWS**  
Chemours Fayetteville Works, North Carolina

12-25-2020 2:00	1,293
12-25-2020 2:15	1,293
12-25-2020 2:30	1,293
12-25-2020 2:45	1,293
12-25-2020 3:00	1,293
12-25-2020 3:15	1,293
12-25-2020 3:30	1,293
12-25-2020 3:45	1,293
12-25-2020 4:00	1,293
12-25-2020 4:15	1,293
12-25-2020 4:30	1,293
12-25-2020 4:45	1,293
12-25-2020 5:00	1,293
12-25-2020 5:15	1,293
12-25-2020 5:30	1,293
12-25-2020 5:45	1,293
12-25-2020 6:00	1,293
12-25-2020 6:15	1,293
12-25-2020 6:30	1,293
12-25-2020 6:45	1,293
12-25-2020 7:00	1,293
12-25-2020 7:15	1,293
12-25-2020 7:30	1,293
12-25-2020 7:45	1,293
12-25-2020 8:00	1,293
12-25-2020 8:15	1,293
12-25-2020 8:30	1,293
12-25-2020 8:45	1,293
12-25-2020 9:00	1,293
12-25-2020 9:15	1,293
12-25-2020 9:30	1,293
12-25-2020 9:45	1,293
12-25-2020 10:00	1,293
12-25-2020 10:15	1,293
12-25-2020 10:30	1,293
12-25-2020 10:45	1,293
12-25-2020 11:00	1,293
12-25-2020 11:15	1,293
12-25-2020 11:30	1,293
12-25-2020 11:45	1,293
12-25-2020 12:00	1,293
12-25-2020 12:15	1,293
12-25-2020 12:30	1,293
12-25-2020 12:45	1,293
12-25-2020 13:00	1,293
12-25-2020 13:15	1,293

**TABLE B2**  
**OUTFALL 003 FLOWS**  
Chemours Fayetteville Works, North Carolina

12-25-2020 13:30	1,293
12-25-2020 13:45	1,293
12-25-2020 14:00	1,293
12-25-2020 14:15	1,293
12-25-2020 14:30	1,293
12-25-2020 14:45	1,293
12-25-2020 15:00	1,293
12-25-2020 15:15	1,293
12-25-2020 15:30	1,293
12-25-2020 15:45	1,293
12-25-2020 16:00	1,293
12-25-2020 16:15	1,293
12-25-2020 16:30	1,293
12-25-2020 16:45	1,293
12-25-2020 17:00	1,293
12-25-2020 17:15	1,293
12-25-2020 17:30	1,293
12-25-2020 17:45	1,293
12-25-2020 18:00	1,293
12-25-2020 18:15	1,293
12-25-2020 18:30	0
12-25-2020 18:45	0
12-25-2020 19:00	0
12-25-2020 19:15	0
12-25-2020 19:30	0
12-25-2020 19:45	0
12-25-2020 20:00	0
12-25-2020 20:15	0
12-25-2020 20:30	0
12-25-2020 20:45	0
12-25-2020 21:00	0
12-25-2020 21:15	0
12-25-2020 21:30	0
12-25-2020 21:45	0
12-25-2020 22:00	0
12-25-2020 22:15	0
12-25-2020 22:30	0
12-25-2020 22:45	0
12-25-2020 23:00	0
12-25-2020 23:15	0
12-25-2020 23:30	0
12-25-2020 23:45	0
12-26-2020 0:00	0
12-26-2020 0:15	0
12-26-2020 0:30	0
12-26-2020 0:45	0

**TABLE B2**  
**OUTFALL 003 FLOWS**  
Chemours Fayetteville Works, North Carolina

12-26-2020 1:00	0
12-26-2020 1:15	0
12-26-2020 1:30	0
12-26-2020 1:45	0
12-26-2020 2:00	0
12-26-2020 2:15	0
12-26-2020 2:30	0
12-26-2020 2:45	0
12-26-2020 3:00	0
12-26-2020 3:15	0
12-26-2020 3:30	0
12-26-2020 3:45	0
12-26-2020 4:00	0
12-26-2020 4:15	0
12-26-2020 4:30	0
12-26-2020 4:45	0
12-26-2020 5:00	0
12-26-2020 5:15	0
12-26-2020 5:30	0
12-26-2020 5:45	0
12-26-2020 6:00	0
12-26-2020 6:15	0
12-26-2020 6:30	0
12-26-2020 6:45	0
12-26-2020 7:00	0
12-26-2020 7:15	0
12-26-2020 7:30	0
12-26-2020 7:45	0
12-26-2020 8:00	0
12-26-2020 8:15	0
12-26-2020 8:30	0
12-26-2020 8:45	0
12-26-2020 9:00	0
12-26-2020 9:15	0
12-26-2020 9:30	0
12-26-2020 9:45	0
12-26-2020 10:00	0
12-26-2020 10:15	0
12-26-2020 10:30	0
12-26-2020 10:45	0
12-26-2020 11:00	0
12-26-2020 11:15	0
12-26-2020 11:30	0
12-26-2020 11:45	0
12-26-2020 12:00	0
12-26-2020 12:15	0

**TABLE B2**  
**OUTFALL 003 FLOWS**  
Chemours Fayetteville Works, North Carolina

12-26-2020 12:30	0
12-26-2020 12:45	0
12-26-2020 13:00	0
12-26-2020 13:15	0
12-26-2020 13:30	0
12-26-2020 13:45	0
12-26-2020 14:00	0
12-26-2020 14:15	0
12-26-2020 14:30	0
12-26-2020 14:45	0
12-26-2020 15:00	0
12-26-2020 15:15	0
12-26-2020 15:30	0
12-26-2020 15:45	0
12-26-2020 16:00	0
12-26-2020 16:15	0
12-26-2020 16:30	0
12-26-2020 16:45	0
12-26-2020 17:00	0
12-26-2020 17:15	0
12-26-2020 17:30	0
12-26-2020 17:45	0
12-26-2020 18:00	0
12-26-2020 18:15	0
12-26-2020 18:30	0
12-26-2020 18:45	0
12-26-2020 19:00	0
12-26-2020 19:15	0
12-26-2020 19:30	0
12-26-2020 19:45	0
12-26-2020 20:00	0
12-26-2020 20:15	0
12-26-2020 20:30	0
12-26-2020 20:45	0
12-26-2020 21:00	0
12-26-2020 21:15	0
12-26-2020 21:30	0
12-26-2020 21:45	0
12-26-2020 22:00	0
12-26-2020 22:15	0
12-26-2020 22:30	0
12-26-2020 22:45	0
12-26-2020 23:00	0
12-26-2020 23:15	0
12-26-2020 23:30	0
12-26-2020 23:45	0

**TABLE B2**  
**OUTFALL 003 FLOWS**  
Chemours Fayetteville Works, North Carolina

12-27-2020 0:00	0
12-27-2020 0:15	0
12-27-2020 0:30	0
12-27-2020 0:45	0
12-27-2020 1:00	0
12-27-2020 1:15	0
12-27-2020 1:30	0
12-27-2020 1:45	0
12-27-2020 2:00	0
12-27-2020 2:15	0
12-27-2020 2:30	0
12-27-2020 2:45	0
12-27-2020 3:00	0
12-27-2020 3:15	0
12-27-2020 3:30	0
12-27-2020 3:45	0
12-27-2020 4:00	0
12-27-2020 4:15	0
12-27-2020 4:30	0
12-27-2020 4:45	0
12-27-2020 5:00	0
12-27-2020 5:15	0
12-27-2020 5:30	0
12-27-2020 5:45	0
12-27-2020 6:00	0
12-27-2020 6:15	0
12-27-2020 6:30	0
12-27-2020 6:45	0
12-27-2020 7:00	0
12-27-2020 7:15	0
12-27-2020 7:30	0
12-27-2020 7:45	0
12-27-2020 8:00	0
12-27-2020 8:15	0
12-27-2020 8:30	0
12-27-2020 8:45	0
12-27-2020 9:00	0
12-27-2020 9:15	0
12-27-2020 9:30	0
12-27-2020 9:45	0
12-27-2020 10:00	0
12-27-2020 10:15	0
12-27-2020 10:30	0
12-27-2020 10:45	0
12-27-2020 11:00	0
12-27-2020 11:15	0

**TABLE B2**  
**OUTFALL 003 FLOWS**  
Chemours Fayetteville Works, North Carolina

12-27-2020 11:30	0
12-27-2020 11:45	0
12-27-2020 12:00	0
12-27-2020 12:15	0
12-27-2020 12:30	0
12-27-2020 12:45	0
12-27-2020 13:00	0
12-27-2020 13:15	0
12-27-2020 13:30	0
12-27-2020 13:45	0
12-27-2020 14:00	0
12-27-2020 14:15	0
12-27-2020 14:30	0
12-27-2020 14:45	0
12-27-2020 15:00	0
12-27-2020 15:15	0
12-27-2020 15:30	0
12-27-2020 15:45	0
12-27-2020 16:00	0
12-27-2020 16:15	0
12-27-2020 16:30	0
12-27-2020 16:45	0
12-27-2020 17:00	0
12-27-2020 17:15	0
12-27-2020 17:30	0
12-27-2020 17:45	0
12-27-2020 18:00	1,293
12-27-2020 18:15	1,293
12-27-2020 18:30	1,293
12-27-2020 18:45	1,293
12-27-2020 19:00	1,293
12-27-2020 19:15	1,293
12-27-2020 19:30	1,293
12-27-2020 19:45	1,293
12-27-2020 20:00	1,293
12-27-2020 20:15	1,293
12-27-2020 20:30	1,293
12-27-2020 20:45	1,293
12-27-2020 21:00	1,293
12-27-2020 21:15	1,293
12-27-2020 21:30	1,293
12-27-2020 21:45	1,293
12-27-2020 22:00	1,293
12-27-2020 22:15	1,293
12-27-2020 22:30	1,293
12-27-2020 22:45	1,293



**TABLE B2**  
**OUTFALL 003 FLOWS**  
Chemours Fayetteville Works, North Carolina

12-27-2020 23:00	1,293
12-27-2020 23:15	1,293
12-27-2020 23:30	1,293
12-27-2020 23:45	1,293
12-28-2020 0:00	1,293
12-28-2020 0:15	1,293
12-28-2020 0:30	1,293
12-28-2020 0:45	1,293
12-28-2020 1:00	1,293
12-28-2020 1:15	1,293
12-28-2020 1:30	1,293
12-28-2020 1:45	1,293
12-28-2020 2:00	1,293
12-28-2020 2:15	1,293
12-28-2020 2:30	1,293
12-28-2020 2:45	1,293
12-28-2020 3:00	1,293
12-28-2020 3:15	1,293
12-28-2020 3:30	1,293
12-28-2020 3:45	1,293
12-28-2020 4:00	1,293
12-28-2020 4:15	1,293
12-28-2020 4:30	1,293
12-28-2020 4:45	1,293
12-28-2020 5:00	1,293
12-28-2020 5:15	1,293
12-28-2020 5:30	1,293
12-28-2020 5:45	1,293
12-28-2020 6:00	1,293
12-28-2020 6:15	1,293
12-28-2020 6:30	1,293
12-28-2020 6:45	1,293
12-28-2020 7:00	1,293
12-28-2020 7:15	1,293
12-28-2020 7:30	1,293
12-28-2020 7:45	1,293
12-28-2020 8:00	1,293
12-28-2020 8:15	1,293
12-28-2020 8:30	1,293
12-28-2020 8:45	1,293
12-28-2020 9:00	1,293
12-28-2020 9:15	1,293
12-28-2020 9:30	1,293
12-28-2020 9:45	1,293
12-28-2020 10:00	1,293
12-28-2020 10:15	1,293

**TABLE B2**  
**OUTFALL 003 FLOWS**  
Chemours Fayetteville Works, North Carolina

12-28-2020 10:30	1,293
12-28-2020 10:45	1,293
12-28-2020 11:00	1,293
12-28-2020 11:15	1,293
12-28-2020 11:30	1,293
12-28-2020 11:45	1,293
12-28-2020 12:00	1,293
12-28-2020 12:15	1,293
12-28-2020 12:30	1,293
12-28-2020 12:45	1,293
12-28-2020 13:00	1,293
12-28-2020 13:15	1,293
12-28-2020 13:30	1,293
12-28-2020 13:45	1,293
12-28-2020 14:00	1,293
12-28-2020 14:15	1,293
12-28-2020 14:30	1,293
12-28-2020 14:45	1,293
12-28-2020 15:00	1,293
12-28-2020 15:15	1,293
12-28-2020 15:30	1,293
12-28-2020 15:45	1,293
12-28-2020 16:00	1,293
12-28-2020 16:15	1,293
12-28-2020 16:30	1,293
12-28-2020 16:45	1,293
12-28-2020 17:00	1,293
12-28-2020 17:15	1,293
12-28-2020 17:30	1,293
12-28-2020 17:45	1,293
12-28-2020 18:00	1,293
12-28-2020 18:15	1,293
12-28-2020 18:30	1,293
12-28-2020 18:45	1,293
12-28-2020 19:00	1,293
12-28-2020 19:15	1,293
12-28-2020 19:30	1,293
12-28-2020 19:45	1,293
12-28-2020 20:00	1,293
12-28-2020 20:15	1,293
12-28-2020 20:30	1,293
12-28-2020 20:45	1,293
12-28-2020 21:00	1,293
12-28-2020 21:15	1,293
12-28-2020 21:30	1,293
12-28-2020 21:45	1,293

**TABLE B2**  
**OUTFALL 003 FLOWS**  
Chemours Fayetteville Works, North Carolina

12-28-2020 22:00	1,293
12-28-2020 22:15	1,293
12-28-2020 22:30	1,293
12-28-2020 22:45	1,293
12-28-2020 23:00	1,293
12-28-2020 23:15	1,293
12-28-2020 23:30	1,293
12-28-2020 23:45	1,293
12-29-2020 0:00	1,293
12-29-2020 0:15	1,293
12-29-2020 0:30	1,293
12-29-2020 0:45	1,293
12-29-2020 1:00	1,293
12-29-2020 1:15	1,293
12-29-2020 1:30	1,293
12-29-2020 1:45	1,293
12-29-2020 2:00	1,293
12-29-2020 2:15	1,293
12-29-2020 2:30	1,293
12-29-2020 2:45	1,293
12-29-2020 3:00	1,293
12-29-2020 3:15	1,293
12-29-2020 3:30	1,293
12-29-2020 3:45	1,293
12-29-2020 4:00	1,293
12-29-2020 4:15	1,293
12-29-2020 4:30	1,293
12-29-2020 4:45	1,293
12-29-2020 5:00	1,293
12-29-2020 5:15	1,293
12-29-2020 5:30	1,293
12-29-2020 5:45	1,293
12-29-2020 6:00	1,293
12-29-2020 6:15	1,293
12-29-2020 6:30	1,293
12-29-2020 6:45	1,293
12-29-2020 7:00	1,293
12-29-2020 7:15	1,293
12-29-2020 7:30	1,293
12-29-2020 7:45	1,293
12-29-2020 8:00	1,293
12-29-2020 8:15	1,293
12-29-2020 8:30	1,293
12-29-2020 8:45	1,293
12-29-2020 9:00	1,293
12-29-2020 9:15	1,293

**TABLE B2**  
**OUTFALL 003 FLOWS**  
Chemours Fayetteville Works, North Carolina

12-29-2020 9:30	1,293
12-29-2020 9:45	1,293
12-29-2020 10:00	1,293
12-29-2020 10:15	1,293
12-29-2020 10:30	1,293
12-29-2020 10:45	1,293
12-29-2020 11:00	1,293
12-29-2020 11:15	1,293
12-29-2020 11:30	1,293
12-29-2020 11:45	1,293
12-29-2020 12:00	1,293
12-29-2020 12:15	1,293
12-29-2020 12:30	1,293
12-29-2020 12:45	1,293
12-29-2020 13:00	1,293
12-29-2020 13:15	1,293
12-29-2020 13:30	1,293
12-29-2020 13:45	1,293
12-29-2020 14:00	1,293
12-29-2020 14:15	1,293
12-29-2020 14:30	1,293
12-29-2020 14:45	1,293
12-29-2020 15:00	1,293
12-29-2020 15:15	1,293
12-29-2020 15:30	1,293
12-29-2020 15:45	1,293
12-29-2020 16:00	1,293
12-29-2020 16:15	1,293
12-29-2020 16:30	1,293
12-29-2020 16:45	1,293
12-29-2020 17:00	1,293
12-29-2020 17:15	1,293
12-29-2020 17:30	1,293
12-29-2020 17:45	1,293
12-29-2020 18:00	1,293
12-29-2020 18:15	1,293
12-29-2020 18:30	1,293
12-29-2020 18:45	1,293
12-29-2020 19:00	1,293
12-29-2020 19:15	1,293
12-29-2020 19:30	1,293
12-29-2020 19:45	1,293
12-29-2020 20:00	1,293
12-29-2020 20:15	1,293
12-29-2020 20:30	1,293
12-29-2020 20:45	1,293

**TABLE B2**  
**OUTFALL 003 FLOWS**  
Chemours Fayetteville Works, North Carolina

12-29-2020 21:00	1,293
12-29-2020 21:15	1,293
12-29-2020 21:30	1,293
12-29-2020 21:45	1,293
12-29-2020 22:00	1,293
12-29-2020 22:15	1,293
12-29-2020 22:30	1,293
12-29-2020 22:45	1,293
12-29-2020 23:00	1,293
12-29-2020 23:15	1,293
12-29-2020 23:30	1,293
12-29-2020 23:45	1,293
12-30-2020 0:00	1,293
12-30-2020 0:15	1,293
12-30-2020 0:30	1,293
12-30-2020 0:45	1,293
12-30-2020 1:00	1,293
12-30-2020 1:15	1,293
12-30-2020 1:30	1,293
12-30-2020 1:45	1,293
12-30-2020 2:00	1,293
12-30-2020 2:15	1,293
12-30-2020 2:30	1,293
12-30-2020 2:45	1,293
12-30-2020 3:00	1,293
12-30-2020 3:15	1,293
12-30-2020 3:30	1,293
12-30-2020 3:45	1,293
12-30-2020 4:00	1,293
12-30-2020 4:15	1,293
12-30-2020 4:30	1,293
12-30-2020 4:45	1,293
12-30-2020 5:00	1,293
12-30-2020 5:15	1,293
12-30-2020 5:30	1,293
12-30-2020 5:45	1,293
12-30-2020 6:00	1,293
12-30-2020 6:15	1,293
12-30-2020 6:30	1,293
12-30-2020 6:45	1,293
12-30-2020 7:00	1,293
12-30-2020 7:15	1,293
12-30-2020 7:30	1,293
12-30-2020 7:45	1,293
12-30-2020 8:00	1,293
12-30-2020 8:15	1,293

**TABLE B2**  
**OUTFALL 003 FLOWS**  
Chemours Fayetteville Works, North Carolina

12-30-2020 8:30	1,293
12-30-2020 8:45	1,293
12-30-2020 9:00	1,293
12-30-2020 9:15	1,293
12-30-2020 9:30	1,293
12-30-2020 9:45	1,293
12-30-2020 10:00	1,293
12-30-2020 10:15	1,293
12-30-2020 10:30	1,293
12-30-2020 10:45	1,293
12-30-2020 11:00	1,293
12-30-2020 11:15	1,293
12-30-2020 11:30	1,293
12-30-2020 11:45	1,293
12-30-2020 12:00	1,293
12-30-2020 12:15	1,293
12-30-2020 12:30	1,293
12-30-2020 12:45	1,293
12-30-2020 13:00	1,293
12-30-2020 13:15	1,293
12-30-2020 13:30	1,293
12-30-2020 13:45	1,293
12-30-2020 14:00	1,293
12-30-2020 14:15	1,293
12-30-2020 14:28	0
12-30-2020 14:43	1,038
12-30-2020 14:58	1,387
12-30-2020 15:13	1,810
12-30-2020 15:28	1,630
12-30-2020 15:43	1,816
12-30-2020 15:58	1,921
12-30-2020 16:13	1,518
12-30-2020 16:28	1,921
12-30-2020 16:43	1,671
12-30-2020 16:58	1,713
12-30-2020 17:13	1,618
12-30-2020 17:28	1,467
12-30-2020 17:43	1,665
12-30-2020 17:58	1,467
12-30-2020 18:13	1,872
12-30-2020 18:28	1,565
12-30-2020 18:43	1,410
12-30-2020 18:58	1,701
12-30-2020 19:13	1,343
12-30-2020 19:28	1,731
12-30-2020 19:43	1,624

**TABLE B2**  
**OUTFALL 003 FLOWS**  
 Chemours Fayetteville Works, North Carolina

12-30-2020 19:58	1,542
12-30-2020 20:13	1,427
12-30-2020 20:28	1,647
12-30-2020 20:43	1,559
12-30-2020 20:58	1,530
12-30-2020 21:13	1,467
12-30-2020 21:28	1,600
12-30-2020 21:43	1,354
12-30-2020 21:58	1,376
12-30-2020 22:13	1,315
12-30-2020 22:28	1,536
12-30-2020 22:43	1,490
12-30-2020 22:58	1,201
12-30-2020 23:13	1,337
12-30-2020 23:28	1,612
12-30-2020 23:43	1,455
12-30-2020 23:58	1,337
12-31-2020 0:13	1,404
12-31-2020 0:28	1,467
12-31-2020 0:43	1,315
12-31-2020 0:58	1,354
12-31-2020 1:13	1,382
12-31-2020 1:28	1,455
12-31-2020 1:43	1,665
12-31-2020 1:58	1,450
12-31-2020 2:13	1,365
12-31-2020 2:28	1,450
12-31-2020 2:43	1,382
12-31-2020 2:58	1,490
12-31-2020 3:13	1,238
12-31-2020 3:28	1,287
12-31-2020 3:43	1,484
12-31-2020 3:58	1,571
12-31-2020 4:13	1,659
12-31-2020 4:28	1,677
12-31-2020 4:43	1,641
12-31-2020 4:58	1,835
12-31-2020 5:13	1,472
12-31-2020 5:28	1,731
12-31-2020 5:43	1,582
12-31-2020 5:58	1,337
12-31-2020 6:13	1,618
12-31-2020 6:28	1,320
12-31-2020 6:43	1,331
12-31-2020 6:58	1,495
12-31-2020 7:13	1,495

**TABLE B2**  
**OUTFALL 003 FLOWS**  
 Chemours Fayetteville Works, North Carolina

12-31-2020 7:28	1,415
12-31-2020 7:43	1,636
12-31-2020 7:58	1,872
12-31-2020 8:13	1,343
12-31-2020 8:28	630
12-31-2020 8:43	982
12-31-2020 8:58	1,309
12-31-2020 9:13	1,233
12-31-2020 9:28	997
12-31-2020 9:43	977
12-31-2020 9:58	1,013
12-31-2020 10:13	821
12-31-2020 10:28	692
12-31-2020 10:43	626
12-31-2020 10:58	972
12-31-2020 11:13	674
12-31-2020 11:28	854
12-31-2020 11:43	678
12-31-2020 11:58	779
12-31-2020 12:13	1,013
12-31-2020 12:28	913
12-31-2020 12:43	1,147
12-31-2020 12:58	1,293
12-31-2020 13:13	1,348
12-31-2020 13:28	1,438
12-31-2020 13:43	1,524
12-31-2020 13:58	1,513
12-31-2020 14:13	1,331
12-31-2020 14:28	1,630
12-31-2020 14:43	1,798
12-31-2020 14:58	1,677
12-31-2020 15:13	1,725
12-31-2020 15:28	1,946
12-31-2020 15:43	1,829
12-31-2020 15:58	1,647
12-31-2020 16:13	1,571
12-31-2020 16:28	1,737
12-31-2020 16:43	1,940
12-31-2020 16:58	1,953
12-31-2020 17:13	1,847
12-31-2020 17:28	1,816
12-31-2020 17:43	2,073
12-31-2020 17:58	2,009
12-31-2020 18:13	1,577
12-31-2020 18:28	1,761
12-31-2020 18:43	1,507



**TABLE B2**  
**OUTFALL 003 FLOWS**  
Chemours Fayetteville Works, North Carolina

12-31-2020 18:58	1,169
12-31-2020 19:13	1,565
12-31-2020 19:28	1,382
12-31-2020 19:43	1,331
12-31-2020 19:58	1,455
12-31-2020 20:13	1,606
12-31-2020 20:28	1,404
12-31-2020 20:43	1,427
12-31-2020 20:58	1,582
12-31-2020 21:13	1,507
12-31-2020 21:28	1,432
12-31-2020 21:43	1,582
12-31-2020 21:58	1,565
12-31-2020 22:13	1,455
12-31-2020 22:28	1,600
12-31-2020 22:43	1,594
12-31-2020 22:58	1,853
12-31-2020 23:13	1,701
12-31-2020 23:28	1,542
12-31-2020 23:43	1,719
12-31-2020 23:58	1,768

# APPENDIX C

## Supplemental Analytical Tables

**TABLE C1**  
**SEEP AND SURFACE WATER ANALYTICAL RESULTS - OTHER PFAS**  
**Chemours Fayetteville Works, North Carolina**

LocID	CFR-BLADEN	CFR-KINGS	CFR-MILE-76	GBC-1
Field Sample ID	CAP1220-CFR-BLADEN-121520	CAP1220-CFR-KINGS-121620	CAP1220-CFR-RM-76-121520	CAP1220-GBC-1-121520
Sample Date	12/15/2020	12/16/2020	12/15/2020	12/15/2020
QA/QC				
Sample Delivery Group (SDG)	320-68082-2	320-68082-2	320-68082-2	320-68084-2
Lab Sample ID	320-68082-2	320-68082-3	320-68082-1	320-68084-4
<i>Other PFAS (ng/L)</i>				
10:2 Fluorotelomer sulfonate	<2 UJ	<2 UJ	<2 UJ	<2 UJ
11Cl-PF3OUdS	<2 UJ	<2 UJ	<2 UJ	<2 UJ
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2 UJ	<2 UJ	<2 UJ	<2 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4 UJ	<4 UJ	<4 UJ	<4 UJ
6:2 Fluorotelomer sulfonate	<5 UJ	<5 UJ	<5 UJ	<5 UJ
9Cl-PF3ONS	<2 UJ	<2 UJ	<2 UJ	<2 UJ
DONA	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-ethyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ
N-ethylperfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-methyl perfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-methyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ
Perfluorobutane Sulfonic Acid	<b>3.7 J</b>	<b>3.3 J</b>	<b>3.8 J</b>	<b>2.3 J</b>
Perfluorobutanoic Acid	<5 UJ	<5 UJ	<5 UJ	<b>8.3 J</b>
Perfluorodecane Sulfonic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorodecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorododecane sulfonic acid (PFDoS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorododecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroheptane sulfonic acid (PFHpS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroheptanoic Acid	<b>4.9</b>	<b>3.9</b>	<b>4.2</b>	<b>3.3</b>
Perfluorohexadecanoic acid (PFHxDA)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorohexane Sulfonic Acid	<b>4.2 J</b>	<b>3.7 J</b>	<b>4 J</b>	<2 UJ
Perfluorohexanoic Acid	<b>5.5 J</b>	<b>4.6 J</b>	<b>5.7 J</b>	<b>2.5 J</b>
Perfluorononanesulfonic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorononanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorooctadecanoic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorooctane Sulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoropentane sulfonic acid (PFPeS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoropentanoic Acid	<b>5.6 J</b>	<b>5.6 J</b>	<b>5.6 J</b>	<b>7.1 J</b>
Perfluorotetradecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorotridecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroundecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
PFOA	<b>6.3 J</b>	<b>6.1 J</b>	<b>6.1 J</b>	<b>3 J</b>
PFOS	<b>12 J</b>	<b>11 J</b>	<b>12 J</b>	<2 UJ

**TABLE C1**  
**SEEP AND SURFACE WATER ANALYTICAL RESULTS - OTHER PFAS**  
**Chemours Fayetteville Works, North Carolina**

LocID	Lock-Dam Seep	OLDOF-1	OUTFALL 002	River Water Intake 2
Field Sample ID	CAP1220-LOCK-DAM-SEEP-121520	CAP1220-OLDOF-1-7-121520	CAP1220-OUTFALL-002-24-121620	RIVER-WATER-INTAKE-24-121620
Sample Date	12/15/2020	12/15/2020	12/16/2020	12/16/2020
QA/QC				
Sample Delivery Group (SDG)	320-68081-2	320-68080-2	320-68081-2	320-68084-2
Lab Sample ID	320-68081-1	320-68080-2	320-68081-2	320-68084-2
<i>Other PFAS (ng/L)</i>				
10:2 Fluorotelomer sulfonate	<2 UJ	<2 UJ	<2 UJ	<2 UJ
11Cl-PF3OUdS	<2 UJ	<2 UJ	<2 UJ	<2 UJ
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2 UJ	<2 UJ	<2 UJ	<2 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4 UJ	<4 UJ	<4 UJ	<4 UJ
6:2 Fluorotelomer sulfonate	<5 UJ	<5 UJ	<5 UJ	<5 UJ
9Cl-PF3ONS	<2 UJ	<2 UJ	<2 UJ	<2 UJ
DONA	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-ethyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ
N-ethylperfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-methyl perfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-methyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ
Perfluorobutane Sulfonic Acid	<2 UJ	<2 UJ	<b>3.7 J</b>	<b>3.9 J</b>
Perfluorobutanoic Acid	<b>74 J</b>	<5 UJ	<5 UJ	<5 UJ
Perfluorodecane Sulfonic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorodecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorododecane sulfonic acid (PFDoS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorododecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroheptane sulfonic acid (PFHpS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroheptanoic Acid	<94	<b>2.9</b>	<b>4.5</b>	<b>3.6</b>
Perfluorohexadecanoic acid (PFHxDA)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorohexane Sulfonic Acid	<b>4.4 J</b>	<2 UJ	<b>4 J</b>	<b>3.4 J</b>
Perfluorohexanoic Acid	<b>15 J</b>	<2 UJ	<b>5.5 J</b>	<b>4.8 J</b>
Perfluorononanesulfonic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorononanoic Acid	<b>3.4 J</b>	<2 UJ	<2 UJ	<2 UJ
Perfluorooctadecanoic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorooctane Sulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoropentane sulfonic acid (PFPeS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoropentanoic Acid	<b>470 J</b>	<b>7.1 J</b>	<b>8.9 J</b>	<b>5.6 J</b>
Perfluorotetradecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorotridecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroundecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
PFOA	<b>18 J</b>	<2 UJ	<b>6.2 J</b>	<b>5.2 J</b>
PFOS	<b>51 J</b>	<2 UJ	<b>10 J</b>	<b>8 J</b>

**TABLE C1**  
**SEEP AND SURFACE WATER ANALYTICAL RESULTS - OTHER PFAS**  
**Chemours Fayetteville Works, North Carolina**

LocID	River Water Intake 2	SEEP-A	SEEP-B	SEEP-C
Field Sample ID	RIVER-WATER-INTAKE-24-121620-D	CAP1220-SEEP-A-24-121620	CAP1220-SEEP-B-21-121620	CAP1220-SEEP-C-24-121620
Sample Date	12/16/2020	12/16/2020	12/16/2020	12/16/2020
QA/QC	Field Duplicate			
Sample Delivery Group (SDG)	320-68084-2	320-68083-2	320-68083-2	320-68083-2
Lab Sample ID	320-68084-3	320-68083-2	320-68083-3	320-68083-4
<i>Other PFAS (ng/L)</i>				
10:2 Fluorotelomer sulfonate	<2 UJ	<2 UJ	<2 UJ	<2 UJ
11Cl-PF3OUdS	<2 UJ	<2 UJ	<2 UJ	<2 UJ
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2 UJ	<2 UJ	<2 UJ	<2 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4 UJ	<4 UJ	<4 UJ	<4 UJ
6:2 Fluorotelomer sulfonate	<5 UJ	<5 UJ	<5 UJ	<5 UJ
9Cl-PF3ONS	<2 UJ	<2 UJ	<2 UJ	<2 UJ
DONA	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-ethyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ
N-ethylperfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-methyl perfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-methyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ
Perfluorobutane Sulfonic Acid	<b>3.7 J</b>	<2 UJ	<2 UJ	<2 UJ
Perfluorobutanoic Acid	<5 UJ	<b>250 J</b>	<b>480 J</b>	<b>490 J</b>
Perfluorodecane Sulfonic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorodecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorododecane sulfonic acid (PFDoS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorododecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroheptane sulfonic acid (PFHpS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroheptanoic Acid	<b>3.9</b>	<47	<94	<b>220</b>
Perfluorohexadecanoic acid (PFHxDA)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorohexane Sulfonic Acid	<b>3.5 J</b>	<b>2.5 J</b>	<2 UJ	<b>2.7 J</b>
Perfluorohexanoic Acid	<b>5.6 J</b>	<b>35 J</b>	<b>34 J</b>	<b>110 J</b>
Perfluorononanesulfonic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorononanoic Acid	<2 UJ	<b>16 J</b>	<b>11 J</b>	<2 UJ
Perfluorooctadecanoic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorooctane Sulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoropentane sulfonic acid (PFPeS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoropentanoic Acid	<b>5.8 J</b>	<b>550 J</b>	<b>1,000 J</b>	<b>2,100 J</b>
Perfluorotetradecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorotridecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroundecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
PFOA	<b>4.9 J</b>	<b>32 J</b>	<b>23 J</b>	<b>20 J</b>
PFOS	<b>7.6 J</b>	<b>4.6 J</b>	<b>3.3 J</b>	<b>9.4 J</b>

**TABLE C1**  
**SEEP AND SURFACE WATER ANALYTICAL RESULTS - OTHER PFAS**  
**Chemours Fayetteville Works, North Carolina**

LocID	SEEP-D	TARHEEL	TARHEEL	WC-1
Field Sample ID	CAP1220-SEEP-D-24-121620	CAP1220-CFR-TARHEEL-121520	CAP1220-TARHEEL-121620	CAP1220-WC-1-22-121620
Sample Date	12/16/2020	12/15/2020	12/16/2020	12/16/2020
QA/QC				
Sample Delivery Group (SDG)	320-68084-2	320-68082-2	320-68080-2	320-68083-2
Lab Sample ID	320-68084-1	320-68082-4	320-68080-1	320-68083-1
<i>Other PFAS (ng/L)</i>				
10:2 Fluorotelomer sulfonate	<2 UJ	<2 UJ	<2 UJ	<2 UJ
11Cl-PF3OUdS	<2 UJ	<2 UJ	<2 UJ	<2 UJ
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2 UJ	<2 UJ	<2 UJ	<2 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4 UJ	<4 UJ	<4 UJ	<4 UJ
6:2 Fluorotelomer sulfonate	<5 UJ	<5 UJ	<5 UJ	<5 UJ
9Cl-PF3ONS	<2 UJ	<2 UJ	<2 UJ	<2 UJ
DONA	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-ethyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ
N-ethylperfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-methyl perfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-methyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ
Perfluorobutane Sulfonic Acid	<2 UJ	<b>3.6 J</b>	<b>3.8 J</b>	<b>4.1 J</b>
Perfluorobutanoic Acid	<b>160 J</b>	<5 UJ	<5 UJ	<b>5.3 J</b>
Perfluorodecane Sulfonic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorodecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorododecane sulfonic acid (PFDoS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorododecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroheptane sulfonic acid (PFHpS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroheptanoic Acid	<47	<b>3.9</b>	<b>4.3</b>	<b>2.9</b>
Perfluorohexadecanoic acid (PFHxDA)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorohexane Sulfonic Acid	<b>2 J</b>	<b>3.7 J</b>	<b>5.2 J</b>	<2 UJ
Perfluorohexanoic Acid	<b>32 J</b>	<b>5.5 J</b>	<b>5.9 J</b>	<b>2.7 J</b>
Perfluorononanesulfonic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorononanoic Acid	<b>2.4 J</b>	<2 UJ	<2 UJ	<2 UJ
Perfluorooctadecanoic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorooctane Sulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoropentane sulfonic acid (PFPeS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoropentanoic Acid	<b>570 J</b>	<b>6.1 J</b>	<b>6.3 J</b>	<b>5.7 J</b>
Perfluorotetradecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorotridecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroundecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
PFOA	<b>12 J</b>	<b>5.9 J</b>	<b>5.9 J</b>	<b>3.9 J</b>
PFOS	<b>2.1 J</b>	<b>14 J</b>	<b>13 J</b>	<2 UJ

**TABLE C1**  
**SEEP AND SURFACE WATER ANALYTICAL RESULTS - OTHER PFAS**  
**Chemours Fayetteville Works, North Carolina**

LocID	EB	EB	EB	EB
Field Sample ID	CAP1220-EQBLK-PP-121520	CAP1220-EQBLK-BL-121620	CAP1220-EQBLK-ISCO-121620	CAP1220-EQBLK-PP-121620
Sample Date	12/15/2020	12/16/2020	12/16/2020	12/16/2020
QA/QC	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
Sample Delivery Group (SDG)	320-68085-2	320-68085-2	320-68085-2	320-68085-2
Lab Sample ID	320-68085-1	320-68085-4	320-68085-3	320-68085-2
<i>Other PFAS (ng/L)</i>				
10:2 Fluorotelomer sulfonate	<2 UJ	<2 UJ	<2 UJ	<2 UJ
11Cl-PF3OUdS	<2 UJ	<2 UJ	<2 UJ	<2 UJ
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2 UJ	<2 UJ	<2 UJ	<2 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4 UJ	<4 UJ	<4 UJ	<4 UJ
6:2 Fluorotelomer sulfonate	<5 UJ	<5 UJ	<5 UJ	<5 UJ
9Cl-PF3ONS	<2 UJ	<2 UJ	<2 UJ	<2 UJ
DONA	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-ethyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ
N-ethylperfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-methyl perfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-methyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ
Perfluorobutane Sulfonic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorobutanoic Acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ
Perfluorodecane Sulfonic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorodecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorododecane sulfonic acid (PFDoS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorododecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroheptane sulfonic acid (PFHpS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroheptanoic Acid	<2	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorohexane Sulfonic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorohexanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorononanesulfonic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorononanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorooctadecanoic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorooctane Sulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoropentane sulfonic acid (PFPeS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoropentanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorotetradecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorotridecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroundecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ
PFOA	<2 UJ	<2 UJ	<2 UJ	<2 UJ
PFOS	<2 UJ	<2 UJ	<2 UJ	<2 UJ

**TABLE C1**  
**SEEP AND SURFACE WATER ANALYTICAL RESULTS - OTHER PFAS**  
**Chemours Fayetteville Works, North Carolina**

LocID	FBLK	FBLK
Field Sample ID	CAP1220-FBLK-121520	CAP1220-FBLK-121620
Sample Date	12/15/2020	12/16/2020
QA/QC	Field Blank	Field Blank
Sample Delivery Group (SDG)	320-68080-1	320-68080-1
Lab Sample ID	320-68080-3	320-68080-4
<b>Other PFAS (ng/L)</b>		
10:2 Fluorotelomer sulfonate	--	--
11Cl-PF3OUdS	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--
6:2 Fluorotelomer sulfonate	--	--
9Cl-PF3ONS	--	--
DONA	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--
Perfluorobutane Sulfonic Acid	--	--
Perfluorobutanoic Acid	--	--
Perfluorodecane Sulfonic Acid	--	--
Perfluorodecanoic Acid	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--
Perfluorododecanoic Acid	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--
Perfluoroheptanoic Acid	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	--	--
Perfluorohexane Sulfonic Acid	--	--
Perfluorohexanoic Acid	--	--
Perfluorononanesulfonic acid	--	--
Perfluorononanoic Acid	--	--
Perfluorooctadecanoic acid	--	--
Perfluorooctane Sulfonamide	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--
Perfluoropentanoic Acid	--	--
Perfluorotetradecanoic Acid	--	--
Perfluorotridecanoic Acid	--	--
Perfluoroundecanoic Acid	--	--
PFOA	--	--
PFOS	--	--

**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
- 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.



TABLE C2  
GROUNDWATER ANALYTICAL RESULTS - OTHER PFAS  
Chemours Fayetteville Works, North Carolina

Water Bearing Unit <sup>1</sup>	Floodplain Deposits	Black Creek Aquifer	Floodplain Deposits	Floodplain Deposits	Black Creek Aquifer
LocID	LTW-01	LTW-02	LTW-03	LTW-04	LTW-05
Field Sample ID	CAP1220-LTW-01-121020	CAP1220-LTW-02-121020	CAP1220-LTW-03-122220	CAP1220-LTW-04-120820	CAP1220-LTW-05-120920
Sample Date	12/10/2020	12/10/2020	12/22/2020	12/8/2020	12/9/2020
QA/QC					
Sample Delivery Group (SDG)	320-67869-2	320-67869-2	320-68259-2	320-67766-2	320-67844-2
Lab Sample ID	320-67869-3	320-67869-4	320-68259-1	320-67766-1	320-67844-8
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<6.1 UJ
11Cl-PF3OUds	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2.9 UJ
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<4.2 UJ
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2.2 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<7.7 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4 UJ	<4 UJ	<4 UJ	<4 UJ	<13 UJ
6:2 Fluorotelomer sulfonate	<5 UJ	<5 UJ	<5 UJ	<5 UJ	<23 UJ
9Cl-PF3ONS	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2.2 UJ
DONA	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<3.6 UJ
N-ethyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ	<12 UJ
N-ethylperfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<7.9 UJ
N-methyl perfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<3.9 UJ
N-methyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ	<11 UJ
Perfluorobutane Sulfonic Acid	<b>3.9 J</b>	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorobutanoic Acid	<b>140 J</b>	<b>50 J</b>	<b>130 J</b>	<b>410 J</b>	<b>160 J</b>
Perfluorodecane Sulfonic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2.9 UJ
Perfluorodecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2.8 UJ
Perfluorododecane sulfonic acid (PFDoS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<8.8 UJ
Perfluorododecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<5 UJ
Perfluoroheptane sulfonic acid (PFHpS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroheptanoic Acid	<94	<47	<94	<2	<b>170</b>
Perfluorohexadecanoic acid (PFHxDA)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<8.1 UJ
Perfluorohexane Sulfonic Acid	<b>7.9 J</b>	<2 UJ	<2 UJ	<2 UJ	<5.2 UJ
Perfluorohexanoic Acid	<b>25 J</b>	<b>7.1 J</b>	<b>14 J</b>	<b>36 J</b>	<b>45 J</b>
Perfluorononanesulfonic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<3.4 UJ
Perfluorononanoic Acid	<b>2.8 J</b>	<2 UJ	<2 UJ	<2 UJ	<2.5 UJ
Perfluorooctadecanoic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<8.5 UJ
Perfluorooctane Sulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<8.9 UJ
Perfluoropentane sulfonic acid (PFPeS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2.7 UJ
Perfluoropentanoic Acid	<b>310 J</b>	<b>200 J</b>	<b>660 J</b>	<b>1,400 J</b>	<b>1,300 J</b>
Perfluorotetradecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<6.6 UJ
Perfluorotridecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<12 UJ
Perfluoroundecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<10 UJ
PFOA	<b>53 J</b>	<2 UJ	<2 UJ	<b>7.4 J</b>	<7.7 UJ
PFOS	<b>20 J</b>	<2 UJ	<2 UJ	<2 UJ	<4.9 UJ

TABLE C2  
GROUNDWATER ANALYTICAL RESULTS - OTHER PFAS  
Chemours Fayetteville Works, North Carolina

Water Bearing Unit <sup>1</sup>	Surficial Aquifer	Floodplain Deposits	Black Creek Aquifer	Black Creek Aquifer	Floodplain Deposits
LocID	PIW-1D	PIW-1S	PIW-3D	PIW-7D	PIW-7S
Field Sample ID	CAP1220-PIW-1D-121020	CAP1220-PIW-1S-121020	CAP1220-PIW-3D-121120	CAP1220-PIW-7D-120820	CAP1220-PIW-7S-120820
Sample Date	12/10/2020	12/10/2020	12/11/2020	12/8/2020	12/8/2020
QA/QC					
Sample Delivery Group (SDG)	320-67869-2	320-67869-2	320-67866-2	320-67773-2	320-67775-2
Lab Sample ID	320-67869-2	320-67869-1	320-67866-3	320-67773-2	320-67775-1
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
11Cl-PF3OUds	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4 UJ	<4 UJ	<4 UJ	<4 UJ	<4 UJ
6:2 Fluorotelomer sulfonate	<5 UJ	<5 UJ	<5 UJ	<5 UJ	<5 UJ
9Cl-PF3ONS	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
DONA	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-ethyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ	<5 UJ
N-ethylperfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-methyl perfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-methyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ	<5 UJ
Perfluorobutane Sulfonic Acid	<2 UJ	<b>2.8 J</b>	<b>2.6 J</b>	<2 UJ	<b>2.7 J</b>
Perfluorobutanoic Acid	<b>63 J</b>	<b>50 J</b>	<b>67 J</b>	<b>120 J</b>	<b>180 J</b>
Perfluorodecane Sulfonic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorodecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorododecane sulfonic acid (PFDoS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorododecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroheptane sulfonic acid (PFHpS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroheptanoic Acid	<47	<19	<47	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorohexane Sulfonic Acid	<2 UJ	<b>7.6 J</b>	<b>4.4 J</b>	<2 UJ	<b>4.2 J</b>
Perfluorohexanoic Acid	<b>9.3 J</b>	<b>12 J</b>	<b>18 J</b>	<b>19 J</b>	<b>27 J</b>
Perfluorononanesulfonic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorononanoic Acid	<2 UJ	<b>4.8 J</b>	<b>4.4 J</b>	<2 UJ	<2 UJ
Perfluorooctadecanoic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorooctane Sulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoropentane sulfonic acid (PFPeS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoropentanoic Acid	<b>140 J</b>	<b>84 J</b>	<b>120 J</b>	<b>920 J</b>	<b>570 J</b>
Perfluorotetradecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorotridecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroundecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
PFOA	<b>7.3 J</b>	<b>23 J</b>	<b>34 J</b>	<b>2 J</b>	<b>14 J</b>
PFOS	<2 UJ	<b>31 J</b>	<b>12 J</b>	<2 UJ	<b>8 J</b>

TABLE C2  
GROUNDWATER ANALYTICAL RESULTS - OTHER PFAS  
Chemours Fayetteville Works, North Carolina

Water Bearing Unit <sup>1</sup>	Floodplain Deposits	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Black Creek Aquifer
LocID	PIW-7S	PW-04	PW-06	PW-07	PW-09
Field Sample ID	CAP1220-PIW-7S-120820-D	CAP1220-PW-04-120820	CAP1220-PW-06-120820	CAP1220-PW-07-120920	CAP1220-PW-09-120820
Sample Date	12/8/2020	12/8/2020	12/8/2020	12/9/2020	12/8/2020
QA/QC	Field Duplicate				
Sample Delivery Group (SDG)	320-67775-2	320-67766-2	320-67773-2	320-67844-2	320-67766-2
Lab Sample ID	320-67775-2	320-67766-4	320-67773-1	320-67844-6	320-67766-2
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
11Cl-PF3OUds	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4 UJ	<4 UJ	<4 UJ	<4 UJ	<4 UJ
6:2 Fluorotelomer sulfonate	<5 UJ	<5 UJ	<5 UJ	<5 UJ	<5 UJ
9Cl-PF3ONS	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
DONA	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-ethyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ	<5 UJ
N-ethylperfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-methyl perfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-methyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ	<5 UJ
Perfluorobutane Sulfonic Acid	<b>3 J</b>	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorobutanoic Acid	<b>180 J</b>	<b>5.3 J</b>	<b>12 J</b>	<b>18 J</b>	<5 UJ
Perfluorodecane Sulfonic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorodecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorododecane sulfonic acid (PFDoS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorododecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroheptane sulfonic acid (PFHpS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroheptanoic Acid	<2	<2	<2	<b>6.4</b>	<2
Perfluorohexadecanoic acid (PFHxDA)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorohexane Sulfonic Acid	<b>4.3 J</b>	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorohexanoic Acid	<b>26 J</b>	<2 UJ	<b>3.7 J</b>	<b>2.6 J</b>	<2 UJ
Perfluorononanesulfonic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorononanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorooctadecanoic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorooctane Sulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoropentane sulfonic acid (PFPeS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoropentanoic Acid	<b>540 J</b>	<b>6.2 J</b>	<b>16 J</b>	<b>12 J</b>	<2 UJ
Perfluorotetradecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorotridecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroundecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
PFOA	<b>14 J</b>	<b>3.3 J</b>	<b>6.2 J</b>	<b>2.6 B</b>	<2 UJ
PFOS	<b>9.3 J</b>	<2 UJ	<2 UJ	<2 UJ	<2 UJ

TABLE C2  
GROUNDWATER ANALYTICAL RESULTS - OTHER PFAS  
Chemours Fayetteville Works, North Carolina

Water Bearing Unit <sup>1</sup>	Black Creek Aquifer	Surficial Aquifer	Surficial Aquifer	Black Creek Aquifer	--
LocID	PZ-22	SMW-10	SMW-11	SMW-12	EB
Field Sample ID	CAP1220-PZ-22-120920	CAP1220-SMW-10-120920	CAP1220-SMW-11-120820	CAP1220-SMW-12-120920	CAP1220-EQBLK-PP-120820
Sample Date	12/9/2020	12/9/2020	12/8/2020	12/9/2020	12/8/2020
QA/QC					Equipment Blank
Sample Delivery Group (SDG)	320-67844-2	320-67844-2	320-67766-2	320-67844-2	320-67773-2
Lab Sample ID	320-67844-7	320-67844-1	320-67766-3	320-67844-2	320-67773-3
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
11Cl-PF3OUds	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4 UJ	<4 UJ	<4 UJ	<4 UJ	<4 UJ
6:2 Fluorotelomer sulfonate	<5 UJ	<5 UJ	<5 UJ	<5 UJ	<5 UJ
9Cl-PF3ONS	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
DONA	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-ethyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ	<5 UJ
N-ethylperfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-methyl perfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-methyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ	<5 UJ
Perfluorobutane Sulfonic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorobutanoic Acid	<b>120 J</b>	<5 UJ	<b>24 J</b>	<b>17 J</b>	<5 UJ
Perfluorodecane Sulfonic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorodecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorododecane sulfonic acid (PFDoS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorododecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroheptane sulfonic acid (PFHpS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroheptanoic Acid	<94	<2	<2	<19	<2
Perfluorohexadecanoic acid (PFHxDA)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorohexane Sulfonic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorohexanoic Acid	<b>15 J</b>	<2 UJ	<b>8.4 J</b>	<2 UJ	<2 UJ
Perfluorononanesulfonic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorononanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorooctadecanoic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorooctane Sulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoropentane sulfonic acid (PFPeS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoropentanoic Acid	<b>920 J</b>	<2 UJ	<b>31 J</b>	<b>49 J</b>	<2 UJ
Perfluorotetradecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorotridecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroundecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
PFOA	<2 UJ	<2 UJ	<b>58 J</b>	<2 UJ	<2 UJ
PFOS	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ

TABLE C2  
GROUNDWATER ANALYTICAL RESULTS - OTHER PFAS  
Chemours Fayetteville Works, North Carolina

Water Bearing Unit <sup>1</sup>	--	--	--	--	--
LocID	EB	EB	EB	EB	EB
Field Sample ID	CAP1220-EQBLK-DV-120920	CAP1220-EQBLK-PP-120920	CAP1220-EQBLK-PP-121020	CAP1220-EQBLK-PP-121120	CAP1220-EQBLK-PP-121520
Sample Date	12/9/2020	12/9/2020	12/10/2020	12/11/2020	12/15/2020
QA/QC	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
Sample Delivery Group (SDG)	320-67844-2	320-67844-2	320-67866-2	320-67866-2	320-68085-2
Lab Sample ID	320-67844-4	320-67844-3	320-67866-2	320-67866-5	320-68085-1
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
11Cl-PF3OUds	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4 UJ	<4 UJ	<4 UJ	<4 UJ	<4 UJ
6:2 Fluorotelomer sulfonate	<5 UJ	<5 UJ	<5 UJ	<5 UJ	<5 UJ
9Cl-PF3ONS	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
DONA	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-ethyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ	<5 UJ
N-ethylperfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-methyl perfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
N-methyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ	<5 UJ
Perfluorobutane Sulfonic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorobutanoic Acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ	<5 UJ
Perfluorodecane Sulfonic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorodecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorododecane sulfonic acid (PFDoS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorododecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroheptane sulfonic acid (PFHpS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroheptanoic Acid	<2	<2	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorohexane Sulfonic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorohexanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorononanesulfonic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorononanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorooctadecanoic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorooctane Sulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoropentane sulfonic acid (PFPeS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoropentanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorotetradecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluorotridecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
Perfluoroundecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ
PFOA	3.1 J	<2 UJ	<2 UJ	<2 UJ	<2 UJ
PFOS	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ

TABLE C2  
GROUNDWATER ANALYTICAL RESULTS - OTHER PFAS  
Chemours Fayetteville Works, North Carolina

Water Bearing Unit <sup>1</sup>	--	--	--	--	--
LocID	EB	EB	EB	EB	FBLK
Field Sample ID	CAP1220-EQBLK-BL-121620	CAP1220-EQBLK-ISCO-121620	CAP1220-EQBLK-PP-121620	CAP1220-EQBLK-PP-122220	CAP1220-FBLK-121520
Sample Date	12/16/2020	12/16/2020	12/16/2020	12/22/2020	12/15/2020
QA/QC	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Field Blank
Sample Delivery Group (SDG)	320-68085-2	320-68085-2	320-68085-2	320-68259-2	320-68080-1
Lab Sample ID	320-68085-4	320-68085-3	320-68085-2	320-68259-3	320-68080-3
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
11Cl-PF3OUds	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4 UJ	<4 UJ	<4 UJ	<4 UJ	--
6:2 Fluorotelomer sulfonate	<5 UJ	<5 UJ	<5 UJ	<5 UJ	--
9Cl-PF3ONS	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
DONA	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ	--
N-ethylperfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
N-methyl perfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
N-methyl perfluorooctane sulfonamidoacetic acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ	--
Perfluorobutane Sulfonic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
Perfluorobutanoic Acid	<5 UJ	<5 UJ	<5 UJ	<5 UJ	--
Perfluorodecane Sulfonic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
Perfluorodecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
Perfluorododecane sulfonic acid (PFDoS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
Perfluorododecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
Perfluoroheptane sulfonic acid (PFHpS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
Perfluoroheptanoic Acid	<2	<2	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
Perfluorohexane Sulfonic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
Perfluorohexanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
Perfluorononanesulfonic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
Perfluorononanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
Perfluorooctadecanoic acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
Perfluorooctane Sulfonamide	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
Perfluoropentane sulfonic acid (PFPeS)	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
Perfluoropentanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
Perfluorotetradecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
Perfluorotridecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
Perfluoroundecanoic Acid	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
PFOA	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--
PFOS	<2 UJ	<2 UJ	<2 UJ	<2 UJ	--

TABLE C2  
GROUNDWATER ANALYTICAL RESULTS - OTHER PFAS  
Chemours Fayetteville Works, North Carolina

Water Bearing Unit <sup>1</sup>	--	--	--	--	--
LocID	FBLK	FBLK	FBLK	FBLK	FBLK
Field Sample ID	CAP1220-FBLK-121620	CAP1220-FBLK-120820	CAP1220-FBLK-120920	CAP1220-FBLK-121020	CAP1220-FBLK-121120
Sample Date	12/16/2020	12/8/2020	12/9/2020	12/10/2020	12/11/2020
QA/QC	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
Sample Delivery Group (SDG)	320-68080-1	320-67773-1	320-67844-1	320-67866-1	320-67866-1
Lab Sample ID	320-68080-4	320-67773-4	320-67844-5	320-67866-1	320-67866-4
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUds	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--	--
9Cl-PF3ONS	--	--	--	--	--
DONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--	--
Perfluorobutanoic Acid	--	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--	--
Perfluoroheptanoic Acid	<2	<2	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--	--
Perfluorononanoic Acid	--	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--	--
PFOA	--	--	--	--	--
PFOS	--	--	--	--	--

TABLE C2  
GROUNDWATER ANALYTICAL RESULTS - OTHER PFAS  
Chemours Fayetteville Works, North Carolina

Water Bearing Unit <sup>1</sup>	--
LocID	FBLK
Field Sample ID	CAP1220-FBLK-122220
Sample Date	12/22/2020
QA/QC	Field Blank
Sample Delivery Group (SDG)	320-68259-1
Lab Sample ID	320-68259-2
<b>Other PFAS (ng/L)</b>	
10:2 Fluorotelomer sulfonate	--
11Cl-PF3OUds	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--
6:2 Fluorotelomer sulfonate	--
9Cl-PF3ONS	--
DONA	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--
N-ethylperfluoro-1-octanesulfonamide	--
N-methyl perfluoro-1-octanesulfonamide	--
N-methyl perfluorooctane sulfonamidoacetic acid	--
Perfluorobutane Sulfonic Acid	--
Perfluorobutanoic Acid	--
Perfluorodecane Sulfonic Acid	--
Perfluorodecanoic Acid	--
Perfluorododecane sulfonic acid (PFDoS)	--
Perfluorododecanoic Acid	--
Perfluoroheptane sulfonic acid (PFHpS)	--
Perfluoroheptanoic Acid	<2
Perfluorohexadecanoic acid (PFHxDA)	--
Perfluorohexane Sulfonic Acid	--
Perfluorohexanoic Acid	--
Perfluorononanesulfonic acid	--
Perfluorononanoic Acid	--
Perfluorooctadecanoic acid	--
Perfluorooctane Sulfonamide	--
Perfluoropentane sulfonic acid (PFPeS)	--
Perfluoropentanoic Acid	--
Perfluorotetradecanoic Acid	--
Perfluorotridecanoic Acid	--
Perfluoroundecanoic Acid	--
PFOA	--
PFOS	--

Notes:

- 1 - Water Bearing Unit - refers to primary aquifer unit 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
- 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.



**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**Chemours Fayetteville Works, North Carolina**

Sampling Event	Q1 2020	Q1 2020	Q1 2020	Q1 2020	Q1 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL	CFR-TARHEEL
Field Sample ID	CFR-TARHEEL-83-033120	CFR-TARHEEL-83-033120-D	CAPIQ20-CFR-TARHEEL-040220	CFR-TARHEEL-48-040220	CAPIQ20-CFR-TARHEEL-24-040320
Sample Date	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
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	<2	<2	<2	<2	<2
11Cl-PF3OUdS	<3.2	<2	<2	<2	<2
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<52	<20	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<8.5	<2 UJ	<2	<2 UJ	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<14	<4	<4	<4 UJ	<4
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	<20
9Cl-PF3ONS	<2.4	<2	<2	<2	<2
ADONA	<2.1	<2.1	<2.1	<2.1	<2.1
DONA	--	--	--	--	--
NaDONA	<2.1	<2.1	<2.1	<2.1	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	<8.7	<2 UJ	<2	<2 UJ	<2
N-methyl perfluoro-1-octanesulfonamide	<4.3	<2	<2	<2	<2
N-methyl perfluorooctane sulfonamidoacetic acid	<31	<20	<20	<20	<20
Perfluorobutane Sulfonic Acid	<b>5.2</b>	<b>4</b>	<b>3.9</b>	<b>4.2</b>	<b>4</b>
Perfluorobutanoic Acid	<b>11 J</b>	<b>5.8 J</b>	<b>6.4</b>	<b>5.9</b>	<b>5.5</b>
Perfluorodecane Sulfonic Acid	<3.2	<2	<2	<2	<2
Perfluorodecanoic Acid	<3.1	<2	<2	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	<4.5	<2	<2	<2	<2
Perfluorododecanoic Acid	<5.5	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	<b>16 J</b>	<b>13 J</b>	<b>12</b>	<b>12</b>	<b>11</b>
Perfluorohexadecanoic acid (PFHxDA)	<8.9	<2 UJ	<2	<2 UJ	<2
Perfluorohexane Sulfonic Acid	<b>8.3 J</b>	<b>3.9 J</b>	<b>4.8</b>	<b>4.3</b>	<b>4.6</b>
Perfluorohexanoic Acid	<b>20</b>	<b>17</b>	<b>15</b>	<b>14</b>	<b>14</b>
Perfluorononanesulfonic acid	<2	<2	<2	<2	<2
Perfluorononanoic Acid	<2.7	<2	<2	<2	<2
Perfluorooctadecanoic acid	<4.6	<2 UJ	<2	<2 UJ	<2
Perfluorooctane Sulfonamide	<b>4.7</b>	<2	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<3	<2	<2	<2	<2
Perfluoropentanoic Acid	<b>16</b>	<b>13</b>	<b>11</b>	<b>13</b>	<b>12</b>
Perfluorotetradecanoic Acid	<2.9	<2	<2	<2	<2
Perfluorotridecanoic Acid	<13	<2	<2	<2	<2
Perfluoroundecanoic Acid	<11	<2	<2	<2	<2
PFOA	<b>12</b>	<b>7.7</b>	<b>7.9</b>	<b>9.7</b>	<b>8.2</b>
PFOS	<b>15</b>	<b>11</b>	<b>12</b>	<b>12</b>	<b>12</b>

**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**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
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	<2	--	--	--	--
11Cl-PF3OUdS	<2	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2 UJ	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4 UJ	--	--	--	--
6:2 Fluorotelomer sulfonate	<20	--	--	--	--
9Cl-PF3ONS	<2	--	--	--	--
ADONA	<2.1	--	--	--	--
DONA	--	--	--	--	--
NaDONA	<2.1	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	<2 UJ	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	<2 UJ	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	--	--	--	--
Perfluorobutane Sulfonic Acid	3.7	--	--	--	--
Perfluorobutanoic Acid	5.5	--	--	--	--
Perfluorodecane Sulfonic Acid	<2	--	--	--	--
Perfluorodecanoic Acid	<2	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	<2	--	--	--	--
Perfluorododecanoic Acid	2.1 J	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	<2	--	--	--	--
Perfluoroheptanoic Acid	8.5	--	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	2.5 J	--	--	--	--
Perfluorohexane Sulfonic Acid	4.2	--	--	--	--
Perfluorohexanoic Acid	12	--	--	--	--
Perfluorononanesulfonic acid	<2	--	--	--	--
Perfluorononanoic Acid	<2	--	--	--	--
Perfluorooctadecanoic acid	<2 UJ	--	--	--	--
Perfluorooctane Sulfonamide	<2	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	<2	--	--	--	--
Perfluoropentanoic Acid	11	--	--	--	--
Perfluorotetradecanoic Acid	3.1 J	--	--	--	--
Perfluorotridecanoic Acid	2.7 J	--	--	--	--
Perfluoroundecanoic Acid	<2	--	--	--	--
PFOA	6.6	--	--	--	--
PFOS	9.7	--	--	--	--

**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**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
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--	--
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
DONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--	--
Perfluorobutanoic Acid	--	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--	--
Perfluoroheptanoic Acid	--	--	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--	--
Perfluorononanoic Acid	--	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--	--
PFOA	--	--	--	--	--
PFOS	--	--	--	--	--

**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**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
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	<2	<5	--	--	--
11Cl-PF3OUdS	<2	<2	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<3	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<2	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2	<3	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4	<3	--	--	--
6:2 Fluorotelomer sulfonate	<20	<5	--	--	--
9Cl-PF3ONS	<2	<2	--	--	--
ADONA	<2.1	--	--	--	--
DONA	--	<2	--	--	--
NaDONA	<2.1	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<3	--	--	--
N-ethylperfluoro-1-octanesulfonamide	<2	<5	--	--	--
N-methyl perfluoro-1-octanesulfonamide	<2	<3	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<2	--	--	--
Perfluorobutane Sulfonic Acid	<b>4.9</b>	<b>3.6</b>	--	--	--
Perfluorobutanoic Acid	<b>5.2</b>	<5	--	--	--
Perfluorodecane Sulfonic Acid	<2	<2	--	--	--
Perfluorodecanoic Acid	<2	<2	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	<2	<3	--	--	--
Perfluorododecanoic Acid	<2	<2	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	--	--	--
Perfluoroheptanoic Acid	<b>9.8</b>	<b>6.7</b>	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	<2	<3	--	--	--
Perfluorohexane Sulfonic Acid	<b>5.6</b>	<b>4.2</b>	--	--	--
Perfluorohexanoic Acid	<b>15</b>	<b>11</b>	--	--	--
Perfluorononanesulfonic acid	<2	<2	--	--	--
Perfluorononanoic Acid	<2	<2	--	--	--
Perfluorooctadecanoic acid	<2	<3	--	--	--
Perfluorooctane Sulfonamide	<2	<2	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	--	--	--
Perfluoropentanoic Acid	<b>12</b>	<b>9.2</b>	--	--	--
Perfluorotetradecanoic Acid	<2	<2	--	--	--
Perfluorotridecanoic Acid	<2	<2	--	--	--
Perfluoroundecanoic Acid	<2	<2	--	--	--
PFOA	<b>7.9</b>	<b>6.7</b>	--	--	--
PFOS	<b>16</b>	<b>10</b>	--	--	--

**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**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
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--	--
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
DONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--	--
Perfluorobutanoic Acid	--	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--	--
Perfluoroheptanoic Acid	--	--	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--	--
Perfluorononanoic Acid	--	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--	--
PFOA	--	--	--	--	--
PFOS	--	--	--	--	--

**TABLE C3  
CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS  
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
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--	--
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
DONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--	--
Perfluorobutanoic Acid	--	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--	--
Perfluoroheptanoic Acid	--	--	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--	--
Perfluorononanoic Acid	--	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--	--
PFOA	--	--	--	--	--
PFOS	--	--	--	--	--

**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**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
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--	--
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
DONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--	--
Perfluorobutanoic Acid	--	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--	--
Perfluoroheptanoic Acid	--	--	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--	--
Perfluorononanoic Acid	--	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--	--
PFOA	--	--	--	--	--
PFOS	--	--	--	--	--

**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**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
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--	--
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
DONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--	--
Perfluorobutanoic Acid	--	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--	--
Perfluoroheptanoic Acid	--	--	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--	--
Perfluorononanoic Acid	--	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--	--
PFOA	--	--	--	--	--
PFOS	--	--	--	--	--



**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**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
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	--	<2 UJ	<2 UJ	--	--
11Cl-PF3OUdS	--	<2 UJ	<2 UJ	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<20 UJ	<20 UJ	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<20 UJ	<20 UJ	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<2 UJ	<2 UJ	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<4 UJ	<4 UJ	--	--
6:2 Fluorotelomer sulfonate	--	<20 UJ	<20 UJ	--	--
9Cl-PF3ONS	--	<2 UJ	<2 UJ	--	--
ADONA	--	--	--	--	--
DONA	--	<2 UJ	<2 UJ	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<20 UJ	<20 UJ	--	--
N-ethylperfluoro-1-octanesulfonamide	--	<2 UJ	<2 UJ	--	--
N-methyl perfluoro-1-octanesulfonamide	--	<2 UJ	<2 UJ	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	<20 UJ	<20 UJ	--	--
Perfluorobutane Sulfonic Acid	--	<b>3.6 J</b>	<b>3.4 J</b>	--	--
Perfluorobutanoic Acid	--	<b>4.5 J</b>	<b>5.6 J</b>	--	--
Perfluorodecane Sulfonic Acid	--	<2 UJ	<2 UJ	--	--
Perfluorodecanoic Acid	--	<2 UJ	<2 UJ	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	<2 UJ	<2 UJ	--	--
Perfluorododecanoic Acid	--	<2 UJ	<2 UJ	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	<2 UJ	<2 UJ	--	--
Perfluoroheptanoic Acid	--	<b>3.7</b>	<b>3.1</b>	<b>3.2</b>	<b>4.8</b>
Perfluorohexadecanoic acid (PFHxDA)	--	<2 UJ	<2 UJ	--	--
Perfluorohexane Sulfonic Acid	--	<b>5.1 J</b>	<b>4.7 J</b>	--	--
Perfluorohexanoic Acid	--	<b>6.1 J</b>	<b>5.2 J</b>	--	--
Perfluorononanesulfonic acid	--	<2 UJ	<2 UJ	--	--
Perfluorononanoic Acid	--	<2 UJ	<2 UJ	--	--
Perfluorooctadecanoic acid	--	<2 UJ	<2 UJ	--	--
Perfluorooctane Sulfonamide	--	<2 UJ	<2 UJ	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	<2 UJ	<2 UJ	--	--
Perfluoropentanoic Acid	--	<b>8 J</b>	<b>6.9 J</b>	--	--
Perfluorotetradecanoic Acid	--	<2 UJ	<2 UJ	--	--
Perfluorotridecanoic Acid	--	<2 UJ	<2 UJ	--	--
Perfluoroundecanoic Acid	--	<2 UJ	<2 UJ	--	--
PFOA	--	<b>5.9 J</b>	<b>5.7 J</b>	--	--
PFOS	--	<b>12 J</b>	<b>15 J</b>	--	--

**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**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
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--	--
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
DONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--	--
Perfluorobutanoic Acid	--	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--	--
Perfluoroheptanoic Acid	4.9	2.6	4.6	3.8	2.5
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--	--
Perfluorononanoic Acid	--	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--	--
PFOA	--	--	--	--	--
PFOS	--	--	--	--	--

**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**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
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--	--
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
DONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--	--
Perfluorobutanoic Acid	--	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--	--
Perfluoroheptanoic Acid	2.8	3.5	3.7	4	5.6
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--	--
Perfluorononanoic Acid	--	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--	--
PFOA	--	--	--	--	--
PFOS	--	--	--	--	--

**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**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
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--	--
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
DONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--	--
Perfluorobutanoic Acid	--	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--	--
Perfluoroheptanoic Acid	2.5	2.3	5.5	4.8	5
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--	--
Perfluorononanoic Acid	--	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--	--
PFOA	--	--	--	--	--
PFOS	--	--	--	--	--

**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**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
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--	--
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
DONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--	--
Perfluorobutanoic Acid	--	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--	--
Perfluoroheptanoic Acid	4.3	4.1 J	5.6 J	5.6 J	5.7 J
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--	--
Perfluorononanoic Acid	--	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--	--
PFOA	--	--	--	--	--
PFOS	--	--	--	--	--

**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**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
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--	--
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
DONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--	--
Perfluorobutanoic Acid	--	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--	--
Perfluoroheptanoic Acid	5.1 J	3.4 J	3.9	4.9	5.5
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--	--
Perfluorononanoic Acid	--	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--	--
PFOA	--	--	--	--	--
PFOS	--	--	--	--	--

**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**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
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--	--
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
DONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--	--
Perfluorobutanoic Acid	--	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--	--
Perfluoroheptanoic Acid	5.4	5.5	4	3.8	5.5
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--	--
Perfluorononanoic Acid	--	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--	--
PFOA	--	--	--	--	--
PFOS	--	--	--	--	--

**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**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	11/5/2020 0:01
Sample Stop Date and Time	10/22/2020 23:01	10/30/2020 23:01	10/31/2020 23:01	11/2/2020 23:01	11/5/2020 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
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--	--
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
DONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--	--
Perfluorobutanoic Acid	--	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--	--
Perfluoroheptanoic Acid	<b>5.1</b>	<b>4.5</b>	<b>4.9</b>	<b>6</b>	<b>4.9</b>
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--	--
Perfluorononanoic Acid	--	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--	--
PFOA	--	--	--	--	--
PFOS	--	--	--	--	--



**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**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
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--	--
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
DONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--	--
Perfluorobutanoic Acid	--	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--	--
Perfluoroheptanoic Acid	4.2 J	3.8	3.6	3.1	2.6
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--	--
Perfluorononanoic Acid	--	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--	--
PFOA	--	--	--	--	--
PFOS	--	--	--	--	--

**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**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-112020	CFR-TARHEEL-24-112420	CFR-TARHEEL-24-112620	CFR-TARHEEL-24-113020	CFR-TARHEEL-24-120320
Sample Date	11/20/2020	11/24/2020	11/26/2020	11/30/2020	12/3/2020
Sample Type	Grab	Composite	Composite	Composite	Composite
Sample Start Date and Time	--	11/24/2020 0:01	11/26/2020 0:01	11/30/2020 0:01	12/3/2020 0:01
Sample Stop Date and Time	--	11/24/2020 23:01	11/26/2020 23:01	11/30/2020 23:01	12/3/2020 23:01
Composite Duration (hours)	--	24	24	24	24
QA/QC					
Sample Delivery Group (SDG)	320-67088-1	320-67335-1	320-67335-1	320-67618-1	320-67618-1
Lab Sample ID	320-67088-3	320-67335-1	320-67335-2	320-67618-1	320-67618-2
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--	--
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
DONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--	--
Perfluorobutanoic Acid	--	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--	--
Perfluoroheptanoic Acid	3.3	<2	2.9	4.8	4
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--	--
Perfluorononanoic Acid	--	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--	--
PFOA	--	--	--	--	--
PFOS	--	--	--	--	--

**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**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-24-120720	CFR-TARHEEL-24-121020	CFR-TARHEEL-24-121320	CFR-TARHEEL-12-121420	CAP1220-CFR-TARHEEL-121520
Sample Date	12/7/2020	12/10/2020	12/13/2020	12/14/2020	12/15/2020
Sample Type	Composite	Composite	Composite	Composite	Grab
Sample Start Date and Time	12/7/2020 0:01	12/10/2020 0:01	12/13/20 0:01	12/14/2020 0:59	--
Sample Stop Date and Time	12/7/2020 23:01	12/10/2020 23:01	12/13/20 23:01	12/14/2020 11:59	--
Composite Duration (hours)	24	24	24	12	--
QA/QC					
Sample Delivery Group (SDG)	320-67847-1	320-67870-1	320-68141-1	320-68141-1	320-68082-2
Lab Sample ID	320-67847-1	320-67870-1	320-68141-1	320-68141-2	320-68082-4
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	--	--	--	--	<2 UJ
11Cl-PF3OUdS	--	--	--	--	<2 UJ
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--	<2 UJ
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--	<2 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	<2 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	<4 UJ
6:2 Fluorotelomer sulfonate	--	--	--	--	<5 UJ
9Cl-PF3ONS	--	--	--	--	<2 UJ
ADONA	--	--	--	--	--
DONA	--	--	--	--	<2 UJ
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	<5 UJ
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	<2 UJ
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	<2 UJ
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	<5 UJ
Perfluorobutane Sulfonic Acid	--	--	--	--	<b>3.6 J</b>
Perfluorobutanoic Acid	--	--	--	--	<5 UJ
Perfluorodecane Sulfonic Acid	--	--	--	--	<2 UJ
Perfluorodecanoic Acid	--	--	--	--	<2 UJ
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--	<2 UJ
Perfluorododecanoic Acid	--	--	--	--	<2 UJ
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--	<2 UJ
Perfluoroheptanoic Acid	<b>4.3</b>	<b>3.7</b>	<b>5.3</b>	<b>4.1</b>	<b>3.9</b>
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	<2 UJ
Perfluorohexane Sulfonic Acid	--	--	--	--	<b>3.7 J</b>
Perfluorohexanoic Acid	--	--	--	--	<b>5.5 J</b>
Perfluorononanesulfonic acid	--	--	--	--	<2 UJ
Perfluorononanoic Acid	--	--	--	--	<2 UJ
Perfluorooctadecanoic acid	--	--	--	--	<2 UJ
Perfluorooctane Sulfonamide	--	--	--	--	<2 UJ
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--	<2 UJ
Perfluoropentanoic Acid	--	--	--	--	<b>6.1 J</b>
Perfluorotetradecanoic Acid	--	--	--	--	<2 UJ
Perfluorotridecanoic Acid	--	--	--	--	<2 UJ
Perfluoroundecanoic Acid	--	--	--	--	<2 UJ
PFOA	--	--	--	--	<b>5.9 J</b>
PFOS	--	--	--	--	<b>14 J</b>

**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**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	CAP1220-TARHEEL-121620	CFR-TARHEEL-121720	CFR-TARHEEL-122120	CFR-TARHEEL-122320	CFR-TARHEEL-122420
Sample Date	12/16/2020	12/17/2020	12/21/2020	12/23/2020	12/24/2020
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)	320-68080-2	320-68141-1	320-68261-1	320-68338-1	320-68338-1
Lab Sample ID	320-68080-1	320-68141-3	320-68261-1	320-68338-1	320-68338-2
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	<2 UJ	--	--	--	--
11Cl-PF3OUdS	<2 UJ	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2 UJ	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2 UJ	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2 UJ	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4 UJ	--	--	--	--
6:2 Fluorotelomer sulfonate	<5 UJ	--	--	--	--
9Cl-PF3ONS	<2 UJ	--	--	--	--
ADONA					
DONA	<2 UJ	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<5 UJ	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	<2 UJ	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	<2 UJ	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<5 UJ	--	--	--	--
Perfluorobutane Sulfonic Acid	<b>3.8 J</b>	--	--	--	--
Perfluorobutanoic Acid	<5 UJ	--	--	--	--
Perfluorodecane Sulfonic Acid	<2 UJ	--	--	--	--
Perfluorodecanoic Acid	<2 UJ	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	<2 UJ	--	--	--	--
Perfluorododecanoic Acid	<2 UJ	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	<2 UJ	--	--	--	--
Perfluoroheptanoic Acid	<b>4.3</b>	<b>4.5</b>	<b>3.9</b>	<b>3.4</b>	<b>3.8</b>
Perfluorohexadecanoic acid (PFHxDA)	<2 UJ	--	--	--	--
Perfluorohexane Sulfonic Acid	<b>5.2 J</b>	--	--	--	--
Perfluorohexanoic Acid	<b>5.9 J</b>	--	--	--	--
Perfluorononanesulfonic acid	<2 UJ	--	--	--	--
Perfluorononanoic Acid	<2 UJ	--	--	--	--
Perfluorooctadecanoic acid	<2 UJ	--	--	--	--
Perfluorooctane Sulfonamide	<2 UJ	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	<2 UJ	--	--	--	--
Perfluoropentanoic Acid	<b>6.3 J</b>	--	--	--	--
Perfluorotetradecanoic Acid	<2 UJ	--	--	--	--
Perfluorotridecanoic Acid	<2 UJ	--	--	--	--
Perfluoroundecanoic Acid	<2 UJ	--	--	--	--
PFOA	<b>5.9 J</b>	--	--	--	--
PFOS	<b>13 J</b>	--	--	--	--

**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**Chemours Fayetteville Works, North Carolina**

Sampling Event	Q4 2020	Q4 2020	Q2 2020	Q2 2020	Q1 2020
Location ID	CFR-TARHEEL	CFR-TARHEEL	EB	EB	EQBLK
Field Sample ID	CFR-TARHEEL-122820	CFR-TARHEEL-123020	CFR-TARHEEL-EB-052520	CFR-TARHEEL-EB-060120	CFR-EQBLK-1-040820
Sample Date	12/28/2020	12/30/2020	5/25/2020	6/1/2020	4/8/2020
Sample Type	Grab	Grab	Grab	Grab	Grab
Sample Start Date and Time	--	--	-	-	-
Sample Stop Date and Time	--	--	-	-	-
Composite Duration (hours)	--	--	-	-	-
QA/QC			Equipment Blank	Equipment Blank	Equipment Blank
Sample Delivery Group (SDG)	320-68338-1	320-68393-1	320-61296-1	320-61452-1	320-60098-1
Lab Sample ID	320-68338-3	320-68393-1	320-61296-4	320-61452-4	320-60098-5
<b>Other PFAS (ng/L)</b>					
10:2 Fluorotelomer sulfonate	--	--	--	--	<2
11Cl-PF3OUdS	--	--	--	--	<2
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	<4
6:2 Fluorotelomer sulfonate	--	--	--	--	<20
9Cl-PF3ONS	--	--	--	--	<2
ADONA	--	--	--	--	<2.1
DONA	--	--	--	--	--
NaDONA	--	--	--	--	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	<2
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	<2
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	<20
Perfluorobutane Sulfonic Acid	--	--	--	--	<2
Perfluorobutanoic Acid	--	--	--	--	<2
Perfluorodecane Sulfonic Acid	--	--	--	--	<2
Perfluorodecanoic Acid	--	--	--	--	<2
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--	<2
Perfluorododecanoic Acid	--	--	--	--	<2
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--	<2
Perfluoroheptanoic Acid	3.4	3.5	--	--	<2
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	<2
Perfluorohexane Sulfonic Acid	--	--	--	--	<2
Perfluorohexanoic Acid	--	--	--	--	<2
Perfluorononanesulfonic acid	--	--	--	--	<2
Perfluorononanoic Acid	--	--	--	--	<2
Perfluorooctadecanoic acid	--	--	--	--	<2
Perfluorooctane Sulfonamide	--	--	--	--	<2
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--	<2
Perfluoropentanoic Acid	--	--	--	--	<2
Perfluorotetradecanoic Acid	--	--	--	--	<2
Perfluorotridecanoic Acid	--	--	--	--	<2
Perfluoroundecanoic Acid	--	--	--	--	<2
PFOA	--	--	--	--	<2
PFOS	--	--	--	--	<2

**TABLE C3**  
**CAPE FEAR RIVER MASS LOAD ANALYTICAL RESULTS - OTHER PFAS**  
**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
<b>Other PFAS (ng/L)</b>			
10:2 Fluorotelomer sulfonate	--	<2 UJ	<2 UJ
11Cl-PF3OUdS	--	<2 UJ	<2 UJ
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<20 UJ	<20 UJ
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<20 UJ	<20 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<2 UJ	<2 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<4 UJ	<4 UJ
6:2 Fluorotelomer sulfonate	--	<20 UJ	<20 UJ
9Cl-PF3ONS	--	<2 UJ	<2 UJ
ADONA	--	<2 UJ	--
DONA	--	<20 UJ	<2 UJ
NaDONA	--	<2 UJ	<20 UJ
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<2 UJ	<2 UJ
N-ethylperfluoro-1-octanesulfonamide	--	<20 UJ	<2 UJ
N-methyl perfluoro-1-octanesulfonamide	--	<2 UJ	<20 UJ
N-methyl perfluorooctane sulfonamidoacetic acid	--	<2 UJ	<2 UJ
Perfluorobutane Sulfonic Acid	--	<2 UJ	<2 UJ
Perfluorobutanoic Acid	--	<2 UJ	<2 UJ
Perfluorodecane Sulfonic Acid	--	<2 UJ	<2 UJ
Perfluorodecanoic Acid	--	<2 UJ	<2 UJ
Perfluorododecane sulfonic acid (PFDoS)	--	<2 UJ	<2 UJ
Perfluorododecanoic Acid	--	<2	<2 UJ
Perfluoroheptane sulfonic acid (PFHpS)	--	<2	<2
Perfluoroheptanoic Acid	--	<2 UJ	<2
Perfluorohexadecanoic acid (PFHxDA)	--	<2 UJ	<2 UJ
Perfluorohexane Sulfonic Acid	--	<2 UJ	<2 UJ
Perfluorohexanoic Acid	--	<2 UJ	<2 UJ
Perfluorononanesulfonic acid	--	<2 UJ	<2 UJ
Perfluorononanoic Acid	--	<2 UJ	<2 UJ
Perfluorooctadecanoic acid	--	<2 UJ	<2 UJ
Perfluorooctane Sulfonamide	--	<2 UJ	<2 UJ
Perfluoropentane sulfonic acid (PFPeS)	--	<2 UJ	<2 UJ
Perfluoropentanoic Acid	--	<2 UJ	<2 UJ
Perfluorotetradecanoic Acid	--	<2 UJ	<2 UJ
Perfluorotridecanoic Acid	--	<2 UJ	<2 UJ
Perfluoroundecanoic Acid	--	<2 UJ	<2 UJ
PFOA	--	<2 UJ	<2 UJ
PFOS	--	--	<2 UJ

**Notes:**

- Bold** - Analyte detected above associated reporting limit
- EPA - Environmental Protection Agency
- J - Analyte detected. Reported value may not be accurate or precise
- 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 analyzed

# APPENDIX D

## Supplemental Flow Data

**TABLE D1  
VOLUMETRIC DISCHARGE CALCULATIONS AT SEEP A  
Chemours Fayetteville Works, North Carolina**

Measurement Point	Distance Along Measured Cross Section	Measured Water Column Depth	Calculated Creek Cell Area <sup>2</sup>	Measured Creek Velocity	Cell Velocity	Calculated Discharge Through Creek Cell Area <sup>1</sup>	
	(ft)	(ft)	(ft <sup>2</sup> )	(ft/s)	(ft/s)	(ft <sup>3</sup> /s)	
North Bank	0	0.00		0.00			
Dry bed deposit	1	0.00		0.00			
Dry bed deposit	2	0.00		0.00			
Dry bed deposit	3	0.00		0.00			
Dry bed deposit	4	0.00		0.00			
Bottom	5	0.17	0.05	0.20	0.52	0.03	
Bottom	5.3	0.17	0.06	0.84	0.63	0.04	
Bottom	5.6	0.25	0.08	0.42	0.99	0.07	
Top	5.6	0.00		1.57			
Bottom	5.9	0.25	0.06	0.65	0.71	0.04	
Top	5.9	0.00		1.31			
Bottom	6.2	0.17	0.04	0.44	0.48	0.02	
Bottom	6.5	0.08	0.02	0.51	0.26	0.00	
Bottom	6.8	0.04	0.004	0.00			
Bank	7	0.00		0.00			
<b>Total Volumetric Discharge</b>							
						(ft <sup>3</sup> /s)	0.21
						(gpm)	93
						(L/s)	6

**Associated Measurement Notes**

Location: Chemours Fayetteville  
 Station: Seep A  
 Date: December 15, 2020

**Acronyms**

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

**Notes**

<sup>1</sup> 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.  
<sup>2</sup> 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 D2  
VOLUMETRIC DISCHARGE CALCULATIONS AT SEEP B  
Chemours Fayetteville Works, North Carolina**

Measurement Point	Distance Along Measured Cross Section	Measured Water Column Depth	Calculated Creek Cell Area <sup>2</sup>	Measured Creek Velocity	Cell Velocity	Calculated Discharge Through Creek Cell Area <sup>1</sup>
	(ft)	(ft)	(ft <sup>2</sup> )	(ft/s)	(ft/s)	(ft <sup>3</sup> /s)
South Bank	0	0.00		0.00		
Mud deposit	1	0.00		0.00		
Mud deposit	2	0.00		0.00		
Mud deposit	3	0.00		0.00		
Mud deposit	4	0.00		0.00		
Shallow	5	0.04	0.02	0.00	0.16	0.00
Middle	5.2	0.17	0.03	0.32	0.30	0.01
Middle	5.4	0.17	0.04	0.28	0.52	0.02
Bottom	5.6	0.25	0.05	0.25	0.65	0.03
Top	5.6	0.00		1.27		
Bottom	5.8	0.25	0.06	0.42	0.58	0.03
Top	5.8	0.00		0.64		
Bottom	6	0.33	0.07	0.21	0.66	0.04
Middle	6	0.17		0.62		
Top	6	0.00		0.80		
Bottom	6.2	0.33	0.07	0.32	0.75	0.05
Middle	6.2	0.17		0.69		
Top	6.2	0.00		0.78		
Bottom	6.4	0.33	0.07	0.54	0.81	0.05
Middle	6.4	0.17		0.8		
Top	6.4	0.00		0.94		
Bottom	6.6	0.33	0.06	0.51	0.63	0.04
Middle	6.6	0.17		0.81		
Top	6.6	0.00		0.48		
Bottom	6.8	0.25	0.04	0.25	0.30	0.01
Middle	6.8	0.13		0.44		
Top	6.8	0.00		1.01		
Middle	7	0.17	0.02	0.16	0.08	0.002
Shallow	7.2	0.04		0.00		
Mud deposit	8	0.00		0.00		
North Bank	9	0.00		0		
			<b>Total Volumetric Discharge</b>			
			(ft <sup>3</sup> /s)		0.30	
			(gpm)		134	
			(L/s)		8	

**Associated Measurement Notes**

Location: Chemours Fayetteville  
Station: Seep B  
Date: December 15, 2020

**Acronyms**

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

**Notes**

<sup>1</sup> 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.  
<sup>2</sup> 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 D3  
VOLUMETRIC DISCHARGE CALCULATIONS AT SEEP C  
Chemours Fayetteville Works, North Carolina**

Measurement Point	Distance Along Measured Cross Section	Measured Water Column Depth	Calculated Creek Cell Area <sup>2</sup>	Measured Creek Velocity	Cell Velocity	Calculated Discharge Through Creek Cell Area <sup>1</sup>
	(ft)	(ft)	(ft <sup>2</sup> )	(ft/s)	(ft/s)	(ft <sup>3</sup> /s)
Bank	0.9	0.08	0.05	0.08	0.11	0.01
Bottom	1.2	0.25	0.09	0.13	0.08	0.01
Top	1.2	0.00		0.15		
Bottom	1.5	0.33	0.10	0.11	0.02	0.002
Middle	1.5	0.17		0.01		
Top	1.5	0.00		0.01		
Bottom	1.8	0.33	0.09	0.11	0.05	0.004
Middle	1.8	0.17		0.02		
Top	1.8	0.00		0.02		
Bottom	2.1	0.25	0.08	0.10	0.07	0.01
Middle	2.1	0.13		0.08		
Top	2.1	0.00		0.02		
Bottom	2.4	0.25	0.08	0.06	0.08	0.01
Top	2.4	0.00		0.06		
Bottom	2.7	0.25	0.08	0.10	0.12	0.01
Top	2.7	0.00		0.11		
Bottom	3	0.25	0.08	0.08	0.14	0.01
Top	3	0.00		0.18		
Bottom	3.3	0.25	0.08	0.13	0.12	0.01
Top	3.3	0.00		0.18		
Bottom	3.6	0.25	0.06	0.08	0.05	0.003
Top	3.6	0.00		0.07		
Bottom	3.9	0.17		0.01		
Top	3.9	0.00		0.05		
<b>Total Volumetric Discharge</b>						
(ft <sup>3</sup> /s)						0.06
(gpm)						27
(L/s)						2

*Associated Measurement Notes*

Location: Chemours Fayetteville

Station: Seep C

Date: December 15, 2020

*Acronyms*

-- data not measured or calculated

ft - feet

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

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

gpm - gallons per minute

*Notes*

<sup>1</sup> 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.

<sup>2</sup> 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 D4  
SEEP D FLUME DATA  
Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC P.C.

<b>Date</b>	<b>Time</b>	<b>Water Level (kPa)</b>	<b>Water Level (ft)</b>	<b>Flow Rate (gpm)</b>	<b>Flow Volume (Gallon)</b>
15-12-20	6:10:35 AM	1.669	0.56	150.29	4509
15-12-20	6:40:35 AM	1.739	0.58	167.44	5023
15-12-20	7:10:35 AM	1.603	0.54	135.16	4055
15-12-20	7:40:35 AM	1.671	0.56	150.76	4523
15-12-20	8:10:35 AM	1.666	0.56	149.58	4487
15-12-20	8:40:35 AM	1.73	0.58	165.17	4955
15-12-20	9:10:35 AM	1.651	0.55	146.06	4382
15-12-20	9:40:35 AM	1.724	0.58	163.66	4910
15-12-20	10:10:35 AM	1.673	0.56	151.24	4537
15-12-20	10:40:35 AM	1.679	0.56	152.67	4580
15-12-20	11:10:35 AM	1.536	0.51	120.80	3624
15-12-20	11:40:35 AM	1.467	0.49	107.05	3211
15-12-20	12:10:35 PM	1.421	0.48	98.44	2953
15-12-20	12:40:35 PM	1.278	0.43	74.48	2234
15-12-20	1:10:35 PM	1.439	0.48	101.76	3053
15-12-20	1:40:35 PM	1.358	0.45	87.38	2621
15-12-20	2:10:35 PM	1.564	0.52	126.68	3800
15-12-20	2:40:35 PM	1.52	0.51	117.52	3526
15-12-20	3:10:35 PM	1.553	0.52	124.35	3730
15-12-20	3:40:35 PM	1.493	0.50	112.11	3363
15-12-20	4:10:35 PM	1.575	0.53	129.04	3871
15-12-20	4:40:35 PM	1.579	0.53	129.90	3897
15-12-20	5:10:35 PM	1.638	0.55	143.06	4292
15-12-20	5:40:35 PM	1.66	0.56	148.17	4445
15-12-20	6:10:35 PM	1.606	0.54	135.82	4075
15-12-20	6:40:35 PM	1.637	0.55	142.83	4285
15-12-20	7:10:35 PM	1.591	0.53	132.51	3975
15-12-20	7:40:35 PM	1.56	0.52	125.83	3775
15-12-20	8:10:35 PM	1.534	0.51	120.39	3612
15-12-20	8:40:35 PM	1.495	0.50	112.50	3375
15-12-20	9:10:35 PM	1.523	0.51	118.13	3544
15-12-20	9:40:35 PM	1.55	0.52	123.72	3712
15-12-20	10:10:35 PM	1.597	0.53	133.83	4015
15-12-20	10:40:35 PM	1.551	0.52	123.93	3718
15-12-20	11:10:35 PM	1.528	0.51	119.15	3575
15-12-20	11:40:35 PM	1.435	0.48	101.01	3030
16-12-20	12:10:35 AM	1.579	0.53	129.90	3897
16-12-20	12:40:35 AM	1.555	0.52	124.77	3743
16-12-20	1:10:35 AM	1.52	0.51	117.52	3526
16-12-20	1:40:35 AM	1.463	0.49	106.28	3188
16-12-20	2:10:35 AM	1.426	0.48	99.36	2981
16-12-20	2:40:35 AM	1.313	0.44	79.96	2399
16-12-20	3:10:35 AM	1.481	0.50	109.75	3293
16-12-20	3:40:35 AM	1.427	0.48	99.54	2986

**TABLE D4  
SEEP D FLUME DATA  
Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC P.C.

<b>Date</b>	<b>Time</b>	<b>Water Level (kPa)</b>	<b>Water Level (ft)</b>	<b>Flow Rate (gpm)</b>	<b>Flow Volume (Gallon)</b>
16-12-20	4:10:35 AM	1.558	0.52	125.41	3762
16-12-20	4:40:35 AM	1.521	0.51	117.72	3532
16-12-20	5:10:35 AM	1.443	0.48	102.50	3075
16-12-20	5:40:35 AM	1.398	0.47	94.31	2829
16-12-20	6:10:35 AM	1.84	0.62	194.24	5827
16-12-20	6:40:35 AM	1.956	0.65	228.12	6844
16-12-20	7:10:35 AM	1.729	0.58	164.92	4947
16-12-20	7:40:35 AM	1.675	0.56	151.71	4551
16-12-20	8:10:35 AM	1.974	0.66	233.68	7010
16-12-20	8:40:35 AM	1.973	0.66	233.37	7001
16-12-20	9:10:35 AM	2.2	0.74	310.77	9323
16-12-20	9:40:35 AM	2.288	0.77	344.53	10336
16-12-20	10:10:35 AM	2.496	0.84	433.13	12994
16-12-20	10:40:35 AM	2.493	0.83	431.76	12953
16-12-20	11:10:35 AM	2.536	0.85	451.62	13549
16-12-20	11:40:35 AM	2.531	0.85	449.28	13479
16-12-20	12:10:35 PM	2.778	0.93	573.96	17219
16-12-20	12:40:35 PM	2.805	0.94	588.74	17662
16-12-20	1:10:35 PM	3.174	1.06	814.87	24446
16-12-20	1:40:35 PM	3.283	1.10	890.54	26716
16-12-20	2:10:35 PM	3.435	1.15	1003.11	30093
16-12-20	2:40:35 PM	3.465	1.16	1026.32	30790
16-12-20	3:10:35 PM	3.58	1.20	1118.34	33550
16-12-20	3:40:35 PM	3.625	1.21	1155.69	34671
16-12-20	4:10:35 PM	3.955	1.32	1453.31	43599
16-12-20	4:40:35 PM	4.051	1.36	1547.93	46438
16-12-20	5:10:35 PM	4.185	1.40	1686.25	50587
16-12-20	5:40:35 PM	4.321	1.45	1834.21	55026
16-12-20	6:10:35 PM	4.358	1.46	1875.81	56274
16-12-20	6:40:35 PM	4.496	1.50	2036.09	61083
16-12-20	7:10:35 PM	4.54	1.52	2088.91	62667
16-12-20	7:40:35 PM	4.725	1.58	2320.28	69608
16-12-20	8:10:35 PM	4.825	1.61	2451.66	73550
16-12-20	8:40:35 PM	4.938	1.65	2605.57	78167
16-12-20	9:10:35 PM	4.829	1.62	2457.01	73710
16-12-20	9:40:35 PM	4.865	1.63	2505.48	75164
16-12-20	10:10:35 PM	4.966	1.66	2644.60	79338
16-12-20	10:40:35 PM	5.007	1.68	2702.41	81072
16-12-20	11:10:35 PM	5.168	1.73	2936.98	88109
16-12-20	11:40:35 PM	5.263	1.76	3081.11	
<b>Total</b>					<b>178,056</b>

Acronyms:

ft - feet gpm - gallons per minute

gal - gallons 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 D5**  
**OLD OUTFALL 002 VOLUMETRIC DISCHARGE CALCULATIONS**  
**Chemours Fayetteville Works, North Carolina**

Measurement Point	Distance Along Measured Cross Section	Measured Water Column Depth	Calculated Creek Cell Area <sup>2</sup>	Measured Creek Velocity	Cell Velocity	Calculated Discharge Through Creek Cell Area <sup>1</sup>	
	(ft)	(ft)	(ft <sup>2</sup> )	(ft/s)	(ft/s)	(ft <sup>3</sup> /s)	
North Bank	1	0.08	0.08	0.3	0.225	0.02	
Middle	2	0.08	0.08	0.2	0.425	0.04	
Middle	3	0.08	0.10	0.7	0.685	0.07	
Middle	4	0.13	0.13	0.7	0.465	0.06	
Middle	5	0.13	0.10	0.26	0.84	0.09	
Middle	6	0.08	0.13	1.4	1.11	0.14	
Bottom	7	0.17	0.08	0.800	1.36	0.11	
Top	7	0.00		1.53			
Bottom	7.5	0.17	0.08	1.3	1.46	0.12	
Top	7.5	0.00		1.78			
Bottom	8	0.17	0.10	0.9	1.47	0.15	
Top	8	0.00		1.82			
Bottom	8.5	0.25	0.13	1.01	1.30	0.16	
Middle	8.5	0.13		1.57			
Top	8.5	0.00		1.79			
Bottom	9	0.25		0.75			
Middle	9	0.13		1.03			
Top South Bank	9	0.00		1.49			
			<b>Total Volumetric Discharge</b>				
			(ft <sup>3</sup> /s)				1.0
			(gpm)				431
			(L/s)				27

**Associated Measurement Notes**

Location: Chemours Fayetteville

Station: Old Outfall

Date: December 15, 2020

**Acronyms**

- - data not measured or calculated

ft - feet

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

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

gpm - gallons per minute

**Notes**

<sup>1</sup> 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.

<sup>2</sup> 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 D6**  
**WILLIS CREEK VOLUMETRIC DISCHARGE CALCULATIONS**  
**Chemours Fayetteville Works, North Carolina**

Measurement Point	Distance Along Measured Cross Section	Measured Water Column Depth	Calculated Creek Cell Area <sup>2</sup>	Measured Creek Velocity	Cell Velocity	Calculated Discharge Through Creek Cell Area <sup>1</sup>
	(ft)	(ft)	(ft <sup>2</sup> )	(ft/s)	(ft/s)	(ft <sup>3</sup> /s)
South	0	0.01	0.99	0.00	0.05	0.05
Bottom	3	0.65	2.25	0.08	0.13	0.28
Middle	3	0.325		0.10		
Top	3	0		0.80		
Bottom	6	0.85	2.63	0.05	0.15	0.39
Middle	6	0.425		0.15		
Top	6	0		0.17		
Bottom	9	0.9	3.00	0.12	0.20	0.59
Middle	9	0.45		0.15		
Top	9	0		0.17		
Bottom	12	1.1	4.35	0.40	0.22	0.94
Middle	12	0.55		0.24		
Top	12	0		0.23		
Bottom	15	1.8	6.30	0.12	0.22	1.35
Middle	15	0.9		0.19		
Top	15	0		0.18		
Bottom	18	2.4	7.95	0.20	0.24	1.91
Middle	18	1.25		0.24		
Top	18	0		0.2		
Bottom	21	2.9	9.30	0.03	0.33	3.07
Middle	21	1.85		0.24		
Top	21	0		0.25		
Bottom	24	3.3	10.95	0.15	0.45	4.93
Middle	24	1.65		0.42		
Top	24	0		0.38		
Bottom	27	4	11.40	0.03	0.37	4.16
Middle	27	2		0.48		
Top	27	0		0.45		
Bottom	30	3.6	11.10	0.09	0.30	3.27
Middle	30	1.8		0.25		
Top	30	0		0.03		
Bottom	33	3.8	9.90	0.03	0.27	2.62
Middle	33	1.8		0.34		
Top	33	0		0.16		
Bottom	36	2.8	1.40	0.010	0.10	0.13
Middle	36	1.4		0.19		
Top	36	0		0.01		
Bank	37	0		0		

<b>Total Volumetric Discharge</b>	
(ft <sup>3</sup> /s)	24
(gpm)	10635
(L/s)	671

**Associated Measurement Notes**

Location: Chemours Fayetteville  
 Station: Willis Creek 01 (SW-WC-01)  
 Date: December 16, 2020

**Acronyms**

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

**Notes**

<sup>1</sup> 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.  
<sup>2</sup> 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 D7**  
**GEORGIA BRANCH CREEK VOLUMETRIC DISCHARGE CALCULATIONS**  
**Chemours Fayetteville Works, North Carolina**

Location	Distance Along Measured Cross Section	Measured Water Column Depth	Calculated Creek Cell Area <sup>2</sup>	Measured Creek Velocity	Cell Velocity	Calculated Discharge Through Creek Cell Area <sup>1</sup>
	(ft)	(ft)	(ft <sup>2</sup> )	(ft/s)	(ft/s)	(ft <sup>3</sup> /s)
Bottom - Bank	18	2.00		0.04		
Middle - In eddy	18	1.00	4.55	0.16	0.3	1.55
Top	18	0.00		0.1		
Bottom	16	2.55		0.06		
Middle	16	1.40	4.60	0.52	0.4	1.96
Top	16	0.00		0.51		
Bottom	14	2.05		0.04		
Middle	14	1.25	4.05	0.33	0.4	1.80
Top	14	0.00		0.43		
Bottom	12	2.00		0.11		
Middle	12	1.00	3.75	0.56	0.5	1.86
Top	12	0.00		0.62		
Bottom	10	1.75		0.15		
Middle	10	0.75	3.60	0.43	0.4	1.42
Top	10	0.00		0.57		
Bottom	8	1.85		0.04		
Middle	8	0.90	3.55	0.36	0.4	1.53
Top	8	0.00		0.48		
Bottom	6	1.70		0.07		
Middle	6	0.85	3.40	0.5	0.5	1.56
Top	6	0.00		0.61		
Bottom	4	1.70		0.1		
Middle	4	0.85	3.60	0.42	0.4	1.30
Top	4	0.00		0.55		
Bottom	2	1.90		0.02		
Middle	2	0.95	4.41	0.3	0.2	0.79
Top	2	0.00		0.49		
End	0.2	3.00		0.06		

Total Volumetric Discharge	
(ft <sup>3</sup> /s)	13.8
(gpm)	6177
(L/s)	390

**Associated Measurement Notes**

Location: Chemours Fayetteville  
 Station: Georgia Branch 01 (SW-GB-01)  
 Date: December 15, 2020

**Acronyms**

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

**Notes**

<sup>1</sup> 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.  
<sup>2</sup> 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 D8**  
**OUTFALL 002 FLOW RATE**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC P.C.

<b>Date</b>	<b>Outfall 002 Flow (MGD)</b>	<b>Total Daily Volume (gal)</b>	<b>Hours of Sample Collection</b>	<b>Approximate Total Volume during 24 hour Sample Collection (gal)</b>
12/15/2020	16.776	16,776,000	15.23	10,648,100
12/16/2020	17.496	17,496,000	8.77	6,390,900
12/15/2020 7:46 am to 12/16/2020 7:46 am			24	17,039,000

**Notes:**

Daily flow rates collected from facility Discharge Monitoring Reports.

Total flow volume for 24-hour temporal composite sample collected at 7:46 am on 12/16/2020 approximated based on flow rates for 12/15/2020 and 12/16/2020

**Acronyms:**

gal - gallons

MGD - millions of gallons per day



**TABLE D9**  
**FLOW DATA FOR W.O'HUSKE LOCK NR TARHEEL, NC**  
**Chemours Fayetteville Works, North Carolina**

<b>Pathway/ Location</b>	<b>Sample Collection Timepoint</b>	<b>Flow Gauging Location<sup>1</sup></b>	<b>Travel Time Offset (hr)<sup>2</sup></b>	<b>Adjusted Flow Gauging Timepoint</b>	<b>Composite Sample 24-Hour Flow Volume (MGD)<sup>3</sup></b>	<b>Grab Sample Instantaneous Flow Rate (ft<sup>3</sup>/s)<sup>4</sup></b>
Upstream River Water and Groundwater	12/15/2020 9:10	William O Huske Lock and Dam	--	12/15/2020 9:10	--	5,910
Tarheel (Grab Sample)	12/15/2020 15:52	William O Huske Lock and Dam	7	12/15/2020 11:15	--	6,130
Bladen Bluff	12/15/2020 15:30	William O Huske Lock and Dam	5	12/15/2020 12:45	--	6,420
Kings Bluff	12/16/2020 13:50	Cape Fear River Lock and Dam #1	--	12/16/2020 13:50	--	7,650

**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

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

hr - hours

MGD - millions of gallons per day

**TABLE D10**  
**FLOW DATA FOR W.O'HUSKE LOCK NR TARHEEL, NC**  
**Chemours Fayetteville Works, North Carolina**

Date and Time	Flow Rate (ft <sup>3</sup> /sec)	Flow Volume (gal)	Gage Height (ft)	Precipitation (in) <sup>1</sup>
14-12-20 0:00	4770	32,113,786	3.5	0
14-12-20 0:15	4740	31,911,813	3.49	0
14-12-20 0:30	4740	31,911,813	3.49	0
14-12-20 0:45	4740	31,911,813	3.49	0
14-12-20 1:00	4740	31,911,813	3.49	0
14-12-20 1:15	4740	31,911,813	3.49	0
14-12-20 1:30	4740	31,911,813	3.49	0
14-12-20 1:45	4740	31,911,813	3.49	0
14-12-20 2:00	4720	31,777,164	3.48	0
14-12-20 2:15	4720	31,777,164	3.48	0.01
14-12-20 2:30	4720	31,777,164	3.48	0.01
14-12-20 2:45	4720	31,777,164	3.48	0
14-12-20 3:00	4720	31,777,164	3.48	0
14-12-20 3:15	4720	31,777,164	3.48	0.02
14-12-20 3:30	4720	31,777,164	3.48	0
14-12-20 3:45	4720	31,777,164	3.48	0
14-12-20 4:00	4690	31,575,191	3.47	0
14-12-20 4:15	4690	31,575,190	3.47	0
14-12-20 4:30	4690	31,575,190	3.47	0
14-12-20 4:45	4690	31,575,191	3.47	0
14-12-20 5:00	4690	31,575,190	3.47	0
14-12-20 5:15	4690	31,575,190	3.47	0
14-12-20 5:30	4690	31,575,191	3.47	0
14-12-20 5:45	4670	31,440,541	3.46	0
14-12-20 6:00	4690	31,575,190	3.47	0
14-12-20 6:15	4690	31,575,191	3.47	0
14-12-20 6:30	4690	31,575,190	3.47	0
14-12-20 6:45	4690	31,575,190	3.47	0
14-12-20 7:00	4690	31,575,191	3.47	0
14-12-20 7:15	4690	31,575,190	3.47	0
14-12-20 7:30	4690	31,575,190	3.47	0
14-12-20 7:45	4670	31,440,542	3.46	0
14-12-20 8:00	4670	31,440,541	3.46	0
14-12-20 8:15	4670	31,440,541	3.46	0
14-12-20 8:30	4670	31,440,542	3.46	0
14-12-20 8:45	4670	31,440,541	3.46	0
14-12-20 9:00	4670	31,440,541	3.46	0
14-12-20 9:15	4640	31,238,568	3.45	0
14-12-20 9:30	4640	31,238,568	3.45	0
14-12-20 9:45	4670	31,440,541	3.46	0.01
14-12-20 10:00	4640	31,238,568	3.45	0
14-12-20 10:15	4640	31,238,568	3.45	0
14-12-20 10:30	4640	31,238,568	3.45	0.01
14-12-20 10:45	4670	31,440,542	3.46	0.02
14-12-20 11:00	4670	31,440,541	3.46	0.03
14-12-20 11:15	4690	31,575,190	3.47	0.06
14-12-20 11:30	4690	31,575,191	3.47	0.05
14-12-20 11:45	4690	31,575,190	3.47	0.07
14-12-20 12:00	4720	31,777,164	3.48	0.01
14-12-20 12:15	4770	32,113,787	3.5	0

**TABLE D10**  
**FLOW DATA FOR W.O'HUSKE LOCK NR TARHEEL, NC**  
**Chemours Fayetteville Works, North Carolina**

<b>Date and Time</b>	<b>Flow Rate (ft<sup>3</sup>/sec)</b>	<b>Flow Volume (gal)</b>	<b>Gage Height (ft)</b>	<b>Precipitation (in)<sup>1</sup></b>
14-12-20 12:30	4740	31,911,813	3.49	0.04
14-12-20 12:45	4740	31,911,813	3.49	0
14-12-20 13:00	4740	31,911,813	3.49	0
14-12-20 13:15	4840	32,585,058	3.53	0
14-12-20 13:30	4890	32,921,680	3.55	0
14-12-20 13:45	4840	32,585,058	3.53	0
14-12-20 14:00	4860	32,719,707	3.54	0
14-12-20 14:15	4860	32,719,707	3.54	0
14-12-20 14:30	4840	32,585,058	3.53	0
14-12-20 14:45	4860	32,719,707	3.54	0
14-12-20 15:00	4860	32,719,707	3.54	0
14-12-20 15:15	4840	32,585,058	3.53	0
14-12-20 15:30	4810	32,383,084	3.52	0
14-12-20 15:45	4840	32,585,058	3.53	0
14-12-20 16:00	4860	32,719,707	3.54	0
14-12-20 16:15	4890	32,921,680	3.55	0
14-12-20 16:30	4860	32,719,707	3.54	0
14-12-20 16:45	4890	32,921,681	3.55	0
14-12-20 17:00	4890	32,921,680	3.55	0
14-12-20 17:15	4890	32,921,680	3.55	0
14-12-20 17:30	4910	33,056,330	3.56	0
14-12-20 17:45	4910	33,056,329	3.56	0
14-12-20 18:00	4910	33,056,329	3.56	0
14-12-20 18:15	4940	33,258,303	3.57	0
14-12-20 18:30	4960	33,392,952	3.58	0
14-12-20 18:45	4960	33,392,952	3.58	0
14-12-20 19:00	4990	33,594,926	3.59	0
14-12-20 19:15	4990	33,594,925	3.59	0
14-12-20 19:30	5010	33,729,574	3.6	0
14-12-20 19:45	5040	33,931,548	3.61	0
14-12-20 20:00	5040	33,931,548	3.61	0
14-12-20 20:15	5040	33,931,548	3.61	0
14-12-20 20:30	5060	34,066,197	3.62	0
14-12-20 20:45	5090	34,268,170	3.63	0
14-12-20 21:00	5090	34,268,170	3.63	0
14-12-20 21:15	5090	34,268,171	3.63	0
14-12-20 21:30	5110	34,402,819	3.64	0
14-12-20 21:45	5110	34,402,819	3.64	0
14-12-20 22:00	5140	34,604,793	3.65	0
14-12-20 22:15	5140	34,604,793	3.65	0
14-12-20 22:30	5140	34,604,793	3.65	0
14-12-20 22:45	5170	34,806,767	3.66	0
14-12-20 23:00	5170	34,806,766	3.66	0
14-12-20 23:15	5190	34,941,415	3.67	0
14-12-20 23:30	5220	35,143,389	3.68	0
14-12-20 23:45	5220	35,143,389	3.68	0
15-12-20 0:00	5240	35,278,038	3.69	0
15-12-20 0:15	5240	35,278,038	3.69	0
15-12-20 0:30	5240	35,278,038	3.69	0
15-12-20 0:45	5270	35,480,011	3.7	0

**TABLE D10**  
**FLOW DATA FOR W.O'HUSKE LOCK NR TARHEEL, NC**  
**Chemours Fayetteville Works, North Carolina**

Date and Time	Flow Rate (ft <sup>3</sup> /sec)	Flow Volume (gal)	Gage Height (ft)	Precipitation (in) <sup>1</sup>
15-12-20 1:00	5290	35,614,661	3.71	0
15-12-20 1:15	5290	35,614,660	3.71	0
15-12-20 1:30	5290	35,614,660	3.71	0
15-12-20 1:45	5320	35,816,634	3.72	0
15-12-20 2:00	5350	36,018,607	3.73	0
15-12-20 2:15	5350	36,018,607	3.73	0
15-12-20 2:30	5370	36,153,257	3.74	0
15-12-20 2:45	5370	36,153,256	3.74	0
15-12-20 3:00	5400	36,355,230	3.75	0
15-12-20 3:15	5400	36,355,230	3.75	0
15-12-20 3:30	5420	36,489,879	3.76	0
15-12-20 3:45	5420	36,489,879	3.76	0
15-12-20 4:00	5420	36,489,879	3.76	0
15-12-20 4:15	5480	36,893,826	3.78	0
15-12-20 4:30	5500	37,028,475	3.79	0
15-12-20 4:45	5500	37,028,475	3.79	0
15-12-20 5:00	5530	37,230,448	3.8	0
15-12-20 5:15	5560	37,432,422	3.81	0
15-12-20 5:30	5560	37,432,422	3.81	0
15-12-20 5:45	5580	37,567,071	3.82	0
15-12-20 6:00	5610	37,769,044	3.83	0
15-12-20 6:15	5640	37,971,018	3.84	0
15-12-20 6:30	5640	37,971,018	3.84	0
15-12-20 6:45	5660	38,105,667	3.85	0
15-12-20 7:00	5660	38,105,667	3.85	0
15-12-20 7:15	5720	38,509,614	3.87	0
15-12-20 7:30	5720	38,509,614	3.87	0
15-12-20 7:45	5750	38,711,588	3.88	0
15-12-20 8:00	5750	38,711,587	3.88	0
15-12-20 8:15	5800	39,048,210	3.9	0
15-12-20 8:30	5830	39,250,184	3.91	0
15-12-20 8:45	5850	39,384,832	3.92	0
15-12-20 9:00	5880	39,586,806	3.93	0
15-12-20 9:15	5910	39,788,780	3.94	0
15-12-20 9:30	5940	39,990,753	3.95	0
15-12-20 9:45	5940	39,990,753	3.95	0
15-12-20 10:00	5990	40,327,376	3.97	0
15-12-20 10:15	6020	40,529,349	3.98	0
15-12-20 10:30	6050	40,731,322	3.99	0
15-12-20 10:45	6080	40,933,296	4	0
15-12-20 11:00	6130	41,269,918	4.02	0
15-12-20 11:15	6130	41,269,918	4.02	0
15-12-20 11:30	6190	41,673,866	4.04	0
15-12-20 11:45	6250	42,077,812	4.06	0
15-12-20 12:00	6270	42,212,461	4.07	0
15-12-20 12:15	6330	42,616,409	4.09	0
15-12-20 12:30	6390	43,020,355	4.11	0
15-12-20 12:45	6420	43,222,329	4.12	0
15-12-20 13:00	6480	43,626,276	4.14	0
15-12-20 13:15	6510	43,828,249	4.15	0

**TABLE D10**  
**FLOW DATA FOR W.O'HUSKE LOCK NR TARHEEL, NC**  
**Chemours Fayetteville Works, North Carolina**

<b>Date and Time</b>	<b>Flow Rate (ft<sup>3</sup>/sec)</b>	<b>Flow Volume (gal)</b>	<b>Gage Height (ft)</b>	<b>Precipitation (in)<sup>1</sup></b>
15-12-20 13:30	6590	44,366,845	4.18	0
15-12-20 13:45	6590	44,366,846	4.18	0
15-12-20 14:00	6650	44,770,792	4.2	0
15-12-20 14:15	6680	44,972,766	4.21	0
15-12-20 14:30	6740	45,376,713	4.23	0
15-12-20 14:45	6800	45,780,660	4.25	0
15-12-20 15:00	6830	45,982,633	4.26	0
15-12-20 15:15	6880	46,319,256	4.28	0
15-12-20 15:30	6910	46,521,229	4.29	0
15-12-20 15:45	6990	47,059,825	4.32	0
15-12-20 16:00	7050	47,463,773	4.34	0
15-12-20 16:15	7080	47,665,746	4.35	0
15-12-20 16:30	7130	48,002,368	4.37	0
15-12-20 16:45	7190	48,406,316	4.39	0
15-12-20 17:00	7220	48,608,289	4.4	0
15-12-20 17:15	7270	48,944,911	4.42	0
15-12-20 17:30	7300	49,146,885	4.43	0
15-12-20 17:45	7360	49,550,832	4.45	0
15-12-20 18:00	7420	49,954,779	4.47	0
15-12-20 18:15	7470	50,291,402	4.49	0
15-12-20 18:30	7500	50,493,375	4.5	0
15-12-20 18:45	7530	50,695,348	4.51	0
15-12-20 19:00	7590	51,099,296	4.53	0
15-12-20 19:15	7650	51,503,242	4.55	0
15-12-20 19:30	7650	51,503,242	4.55	0
15-12-20 19:45	7700	51,839,865	4.57	0
15-12-20 20:00	7730	52,041,838	4.58	0
15-12-20 20:15	7760	52,243,812	4.59	0
15-12-20 20:30	7790	52,445,786	4.6	0
15-12-20 20:45	7850	52,849,732	4.62	0
15-12-20 21:00	7880	53,051,706	4.63	0
15-12-20 21:15	7910	53,253,680	4.64	0
15-12-20 21:30	7910	53,253,679	4.64	0
15-12-20 21:45	7970	53,657,626	4.66	0
15-12-20 22:00	7970	53,657,627	4.66	0
15-12-20 22:15	8030	54,061,573	4.68	0
15-12-20 22:30	8030	54,061,573	4.68	0
15-12-20 22:45	8090	54,465,521	4.7	0
15-12-20 23:00	8120	54,667,494	4.71	0
15-12-20 23:15	8120	54,667,494	4.71	0
15-12-20 23:30	8150	54,869,468	4.72	0
15-12-20 23:45	8180	55,071,441	4.73	0
16-12-20 0:00	8210	55,273,414	4.74	0
16-12-20 0:15	8210	55,273,415	4.74	0
16-12-20 0:30	8270	55,677,361	4.76	0
16-12-20 0:45	8270	55,677,361	4.76	0
16-12-20 1:00	8300	55,879,335	4.77	0
16-12-20 1:15	8330	56,081,308	4.78	0
16-12-20 1:30	8330	56,081,308	4.78	0
16-12-20 1:45	8360	56,283,282	4.79	0

**TABLE D10**  
**FLOW DATA FOR W.O'HUSKE LOCK NR TARHEEL, NC**  
**Chemours Fayetteville Works, North Carolina**

Date and Time	Flow Rate (ft <sup>3</sup> /sec)	Flow Volume (gal)	Gage Height (ft)	Precipitation (in) <sup>1</sup>
16-12-20 2:00	8360	56,283,282	4.79	0
16-12-20 2:15	8390	56,485,255	4.8	0
16-12-20 2:30	8420	56,687,229	4.81	0
16-12-20 2:45	8450	56,889,202	4.82	0
16-12-20 3:00	8480	57,091,176	4.83	0
16-12-20 3:15	8510	57,293,150	4.84	0
16-12-20 3:30	8510	57,293,149	4.84	0
16-12-20 3:45	8550	57,562,447	4.85	0
16-12-20 4:00	8580	57,764,421	4.86	0
16-12-20 4:15	8610	57,966,394	4.87	0
16-12-20 4:30	8640	58,168,368	4.88	0
16-12-20 4:45	8640	58,168,368	4.88	0
16-12-20 5:00	8670	58,370,341	4.89	0
16-12-20 5:15	8730	58,774,288	4.91	0
16-12-20 5:30	8760	58,976,262	4.92	0
16-12-20 5:45	8820	59,380,209	4.94	0
16-12-20 6:00	8820	59,380,209	4.94	0.01
16-12-20 6:15	8850	59,582,183	4.95	0.06
16-12-20 6:30	8880	59,784,156	4.96	0.04
16-12-20 6:45	8940	60,188,103	4.98	0.03
16-12-20 7:00	8970	60,390,077	4.99	0.01
16-12-20 7:15	9030	60,794,023	5.01	0.02
16-12-20 7:30	9060	60,995,997	5.02	0.05
16-12-20 7:45	9100	61,265,295	5.03	0.01
16-12-20 8:00	9160	61,669,242	5.05	0.01
16-12-20 8:15	9220	62,073,189	5.07	0.01
16-12-20 8:30	9280	62,477,136	5.09	0.01
16-12-20 8:45	9310	62,679,109	5.1	0
16-12-20 9:00	9370	63,083,056	5.12	0
16-12-20 9:15	9410	63,352,355	5.13	0.03
16-12-20 9:30	9470	63,756,301	5.15	0.03
16-12-20 9:45	9530	64,160,248	5.17	0.01
16-12-20 10:00	9590	64,564,196	5.19	0.07
16-12-20 10:15	9660	65,035,467	5.21	0.06
16-12-20 10:30	9750	65,641,387	5.24	0.02
16-12-20 10:45	9750	65,641,388	5.24	0.01
16-12-20 11:00	9850	66,314,632	5.27	0.01
16-12-20 11:15	9880	66,516,606	5.28	0
16-12-20 11:30	9980	67,189,851	5.31	0.02
16-12-20 11:45	10000	67,324,500	5.32	0.01
16-12-20 12:00	10100	67,997,745	5.35	0.02
16-12-20 12:15	10200	68,670,990	5.37	0
16-12-20 12:30	10300	69,344,235	5.4	0
16-12-20 12:45	10300	69,344,235	5.42	0
16-12-20 13:00	10400	70,017,480	5.44	0.01
16-12-20 13:15	10500	70,690,725	5.46	0
16-12-20 13:30	10500	70,690,725	5.48	0
16-12-20 13:45	10600	71,363,970	5.5	0
16-12-20 14:00	10700	72,037,215	5.52	0.02
16-12-20 14:15	10700	72,037,215	5.54	0.02

**TABLE D10**  
**FLOW DATA FOR W.O'HUSKE LOCK NR TARHEEL, NC**  
**Chemours Fayetteville Works, North Carolina**

Date and Time	Flow Rate (ft <sup>3</sup> /sec)	Flow Volume (gal)	Gage Height (ft)	Precipitation (in) <sup>1</sup>
16-12-20 14:30	10800	72,710,460	5.56	0
16-12-20 14:45	10800	72,710,460	5.57	0
16-12-20 15:00	10900	73,383,705	5.6	0
16-12-20 15:15	11000	74,056,950	5.62	0
16-12-20 15:30	11000	74,056,950	5.63	0
16-12-20 15:45	11100	74,730,195	5.65	0
16-12-20 16:00	11100	74,730,195	5.66	0
16-12-20 16:15	11200	75,403,440	5.69	0
16-12-20 16:30	11300	76,076,685	5.71	0
16-12-20 16:45	11300	76,076,685	5.72	0
16-12-20 17:00	11400	76,749,930	5.74	0
16-12-20 17:15	11400	76,749,930	5.75	0
16-12-20 17:30	11400	76,749,930	5.76	0
16-12-20 17:45	11500	77,423,175	5.79	0
16-12-20 18:00	11600	78,096,420	5.8	0
16-12-20 18:15	11600	78,096,420	5.81	0
16-12-20 18:30	11600	78,096,420	5.82	0
16-12-20 18:45	11700	78,769,665	5.84	0
16-12-20 19:00	11800	79,442,910	5.86	0
16-12-20 19:15	11800	79,442,910	5.87	0
16-12-20 19:30	11900	80,116,155	5.89	0
16-12-20 19:45	11900	80,116,155	5.9	0
16-12-20 20:00	11900	80,116,155	5.91	0
16-12-20 20:15	12000	80,789,400	5.93	0
16-12-20 20:30	12000	80,789,400	5.94	0
16-12-20 20:45	12100	81,462,645	5.95	0
16-12-20 21:00	12100	81,462,645	5.97	0
16-12-20 21:15	12200	82,135,890	5.99	0
16-12-20 21:30	12200	82,135,890	6	0
16-12-20 21:45	12300	82,809,135	6.01	0
16-12-20 22:00	12300	82,809,135	6.03	0
16-12-20 22:15	12300	82,809,135	6.03	0
16-12-20 22:30	12400	83,482,380	6.04	0
16-12-20 22:45	12400	83,482,380	6.06	0
16-12-20 23:00	12500	84,155,625	6.07	0
16-12-20 23:15	12500	84,155,625	6.08	0
16-12-20 23:30	12500	84,155,625	6.08	0
16-12-20 23:45	12600	84,828,870	6.11	0

**Notes**

Measurements are recorded from the USGS flow gauging station at the W.O. Huske Dam, ID 02105500 (USGS, 2020).

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

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

ft - feet

gal - gallons

in - inches

USGS - United States Geological Survey

**TABLE D11**  
**FLOW DATA FOR LOCK #1 NR KELLY, NC**  
**Chemours Fayetteville Works, North Carolina**

<b>Date</b>	<b>Flow Rate (ft<sup>3</sup>/sec)</b>	<b>Flow Volume (gal)</b>
16-12-20 0:00	6160	41,471,892
16-12-20 0:15	6160	41,471,892
16-12-20 0:30	6180	41,606,541
16-12-20 0:45	6180	41,606,541
16-12-20 1:00	6210	41,808,515
16-12-20 1:15	6210	41,808,514
16-12-20 1:30	6240	42,010,488
16-12-20 1:45	6270	42,212,462
16-12-20 2:00	6270	42,212,461
16-12-20 2:15	6330	42,616,408
16-12-20 2:30	6330	42,616,409
16-12-20 2:45	6360	42,818,382
16-12-20 3:00	6390	43,020,355
16-12-20 3:15	6420	43,222,329
16-12-20 3:30	6420	43,222,329
16-12-20 3:45	6450	43,424,302
16-12-20 4:00	6480	43,626,276
16-12-20 4:15	6500	43,760,925
16-12-20 4:30	6530	43,962,898
16-12-20 4:45	6530	43,962,899
16-12-20 5:00	6560	44,164,872
16-12-20 5:15	6560	44,164,872
16-12-20 5:30	6590	44,366,846
16-12-20 5:45	6620	44,568,819
16-12-20 6:00	6680	44,972,766
16-12-20 6:15	6680	44,972,766
16-12-20 6:30	6710	45,174,739
16-12-20 6:45	6740	45,376,713
16-12-20 7:00	6740	45,376,713
16-12-20 7:15	6800	45,780,660
16-12-20 7:30	6830	45,982,633
16-12-20 7:45	6830	45,982,634
16-12-20 8:00	6860	46,184,607
16-12-20 8:15	6890	46,386,580
16-12-20 8:30	6860	46,184,607
16-12-20 8:45	6990	47,059,825
16-12-20 9:00	6950	46,790,527
16-12-20 9:15	6990	47,059,826
16-12-20 9:30	7020	47,261,799
16-12-20 9:45	7050	47,463,772
16-12-20 10:00	7080	47,665,746
16-12-20 10:15	7110	47,867,719
16-12-20 10:30	7110	47,867,719
16-12-20 10:45	7170	48,271,667
16-12-20 11:00	7230	48,675,613
16-12-20 11:15	7260	48,877,587
16-12-20 11:30	7330	49,348,859
16-12-20 11:45	7390	49,752,805
16-12-20 12:00	7360	49,550,832
16-12-20 12:15	7420	49,954,779
16-12-20 12:30	7450	50,156,752
16-12-20 12:45	7450	50,156,752
16-12-20 13:00	7520	50,628,024



**TABLE D11**  
**FLOW DATA FOR LOCK #1 NR KELLY, NC**  
**Chemours Fayetteville Works, North Carolina**

Date	Flow Rate (ft <sup>3</sup> /sec)	Flow Volume (gal)
16-12-20 13:15	7550	50,829,997
16-12-20 13:30	7580	51,031,971
16-12-20 13:45	7650	51,503,243
16-12-20 14:00	7680	51,705,216
16-12-20 14:15	7710	51,907,189
16-12-20 14:30	7710	51,907,190
16-12-20 14:45	7740	52,109,163
16-12-20 15:00	7810	52,580,434
16-12-20 15:15	7840	52,782,408
16-12-20 15:30	7840	52,782,408
16-12-20 15:45	7910	53,253,679
16-12-20 16:00	7940	53,455,653
16-12-20 16:15	7970	53,657,626
16-12-20 16:30	8000	53,859,600
16-12-20 16:45	8000	53,859,600
16-12-20 17:00	8070	54,330,871
16-12-20 17:15	8100	54,532,845
16-12-20 17:30	8170	55,004,117
16-12-20 17:45	8200	55,206,090
16-12-20 18:00	8200	55,206,090
16-12-20 18:15	8240	55,475,388
16-12-20 18:30	8310	55,946,659
16-12-20 18:45	8340	56,148,633
16-12-20 19:00	8370	56,350,607
16-12-20 19:15	8410	56,619,904
16-12-20 19:30	8440	56,821,878
16-12-20 19:45	8510	57,293,150
16-12-20 20:00	8540	57,495,123
16-12-20 20:15	8580	57,764,421
16-12-20 20:30	8610	57,966,395
16-12-20 20:45	8650	58,235,692
16-12-20 21:00	8680	58,437,666
16-12-20 21:15	8750	58,908,938
16-12-20 21:30	8750	58,908,937
16-12-20 21:45	8820	59,380,209
16-12-20 22:00	8850	59,582,183
16-12-20 22:15	8920	60,053,454
16-12-20 22:30	8960	60,322,752
16-12-20 22:45	8960	60,322,752
16-12-20 23:00	9030	60,794,023
16-12-20 23:15	9070	61,063,321
16-12-20 23:30	9100	61,265,295
16-12-20 23:45	9170	61,736,567

TOTAL

**Notes**

Measurements are recorded from the USGS flow gauging station at Lock #1 near Kelly, ID 02105769 (USGS, 2020).

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

ft - feet

gal - gallons

USGS - United States Geological Survey

**TABLE D12**  
**CHEMOURS FACILITY INTAKE FLOW RATE**  
**Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC P.C.

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)
12-15-2020	10275.840	16,606,952	16.90	11,694,062
12-16-2020	10259.690	16,488,626	7.10	4,877,885
12/15/2020 7:06 am to 12/16/2020 7:06 am			24	16,571,947

**Notes:**

Daily flow rates collected from facility Discharge Monitoring Reports.

Total flow volume for 24-hour temporal composite sample collected at 7:06 am on 12/16/2020 approximated based on flow rates for 12/15/2020 and 12/16/2020

**Acronyms:**

gal - gallons

gpm - gallons per minute

# APPENDIX E

## Field Forms

**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-BLADEN	Project Manager: Tracy Ovbey
Samplers: CHRIS MCGINNESS JOHNATHAN CAUDILL	Sampling Event: Monthly CAP	Event Type: Sampling
Date: 12-15-2020	Time: 15:30	General Comments:

Spl ID	Spl Date	Time	pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
CAP1220-CFR-BLADEN-121520	12-15-2020	15:40	7.32	10.23	138.40	19.67	116.39	10.59	Brownish	No	-	-

**Sampling Data**

Sampling Method: Peri Pump Grab	Tubing Depth (ft): 7	Distance to River Right: 56.9
Sampling Location: Intake	Multi Meter Used: In Situ Aqua Troll	Distance to River Left: 24.3
Total Depth to Bottom of Channel (ft): 13.8	Multi Meter ID: 706720	Distance to River (Right/Left) Units: m

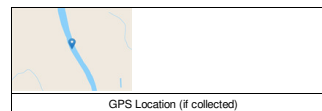
SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	537 Mod Including HFPO-DA
PFAS	250 mL poly	NP	Table 3+ (19)(LL)
PFAS	250 mL poly	NP	Table 3+ (20)(LL)
PFAS	250 mL poly	NP	Table 3+ (19)(HL)
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HFPO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+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

ALL PARAMETERS ANALYZED
Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)

**WEATHER CONDITIONS**

Temperature (F):	46.00
Sky:	Cloudy
Precipitation:	None
Wind (mph):	7

Latitude:	34.7723583064656
Longitude:	-78.798278653939



**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-KINGS	Project Manager: Tracy Ovbey
Samplers: JAMES BRIGGS\LUKE TART	Sampling Event: Monthly CAP	Event Type: Sampling
Date: 12-16-2020	Time: 13:50	General Comments:

Spl ID	Spl Date	Time	pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
CAP1220-CFR-KINGS-121620	12-16-2020	14:00	7.73	9.74	6.90	16.03	432.32	9.99	Brownish	No	-	-

**Sampling Data**

Sampling Method: Peri Pump Grab	Tubing Depth (ft): 9	Distance to River Right: 67.2
Sampling Location: Thalweg	Multi Meter Used: Insitu Aqua Troll	Distance to River Left: 46.1
Total Depth to Bottom of Channel (ft): 18	Multi Meter ID: 706720	Distance to River (Right/Left) Units: m

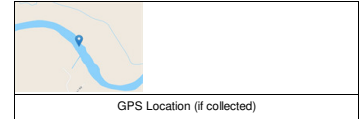
SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	537 Mod Including HFPO-DA
PFAS	250 mL poly	NP	Table 3+ (19)(LL)
PFAS	250 mL poly	NP	Table 3+ (20)(LL)
PFAS	250 mL poly	NP	Table 3+ (19)(HL)
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+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

**ALL PARAMETERS ANALYZED**

Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)

WEATHER CONDITIONS	
Temperature (F):	44.00
Sky:	Cloudy
Precipitation:	Rain
Wind (mph)	9

Latitude: 34.4064665800211  
 Longitude: -78.2946023287755



**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-RM-76	Project Manager: Tracy Ovbey
Samplers: JOHNATHAN CAUDILL(LUKE TART)	Sampling Event: Monthly CAP	Event Type: Sampling
Date: 12-15-2020	Time: 09:10	General Comments:

Spl ID	Spl Date	Time	pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
CAP1220-CFR-RM-76-121520	12-15-2020	09:20	7.89	10.23	-10.80	21.78	317.82	9.09	Clear	No	-	

**Sampling Data**

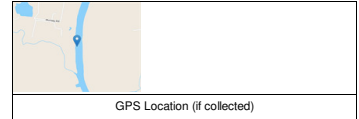
Sampling Method: Peri Pump Grab	Tubing Depth (ft): 12.5	Distance to River Right: 14.3
Sampling Location: Thalweg	Multi Meter Used: Insitu Aqua Troll	Distance to River Left: 70.7
Total Depth to Bottom of Channel (ft): 25	Multi Meter ID: 706720	Distance to River (Right/Left) Units: m

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 (HOLD)

ALL PARAMETERS ANALYZED
Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)

WEATHER CONDITIONS	
Temperature (F):	38.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	3

Latitude: 34.8540308655054  
 Longitude: -78.8270759083294



**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-TARHEEL	Project Manager: Tracy Ovbey
Samplers: CHRIS MCGINNESS JOHNATHAN CAUDILL	Sampling Event: Monthly CAP	Event Type: Sampling
Date: 12-15-2020	Time: 15:52	General Comments:

Spl ID	Spl Date	Time	pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
CAP1220-CFR-TARHEEL-121520	12-15-2020	16:11	7.63	10.42	98.40	22.30	126.70	10.49	Clear	No	-	-

**Sampling Data**

Sampling Method: Peri Pump Grab	Tubing Depth (ft): 10	Distance to River Right: 18.7
Sampling Location: Thalweg	Multi Meter Used: Insitu Aqua Troll	Distance to River Left: 61.6
Total Depth to Bottom of Channel (ft): 20	Multi Meter ID: 706720	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 (HOLD)

ALL PARAMETERS ANALYZED
Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)

WEATHER CONDITIONS	
Temperature (F):	45.00
Sky:	Cloudy
Precipitation:	None
Wind (mph):	7

Latitude:	34.744293067794
Longitude:	-78.7852903396115



**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-TARHEEL	Project Manager: Tracy Ovbey
Samplers: JAMES BRIGGS JOHNATHAN CAUDILL	Sampling Event: Monthly CAP	Event Type: Sampling
Date: 12-16-2020	Time: 16:40	General Comments:

Spl ID	Spl Date	Time	pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
CAP1220-TARHEEL-121620	12/16/2020	16:55	7.97	7.70	0.80	25.12	145.55	11.50	Brownish	None	-	This sample ID represents a CFR-TARHEEL sample taken from the river bank.

**Sampling Data**

Sampling Method: Bailer	Multi Meter Used: Insitu Aqua Troll	Flow Rate: -
	Multi Meter ID: 706720	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 HFPO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including HFPO-DA and PFHpA
PFAS	250 mL poly	NP	537 MOD (HOLD)

ALL PARAMETERS ANALYZED
Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)

WEATHER CONDITIONS	
Temperature (F):	46.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	5

Latitude: -  
Longitude: -

GPS Location (if collected)

Large empty rectangular box for additional notes or data.

Large empty rectangular box for additional notes or data.



**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="GBC-1"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="CHRIS MCGINNESS JOHNATHAN CAUDILL"/>	Sampling Event: <input type="text" value="Monthly CAP"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="12-15-2020"/>	Time: <input type="text" value="15:10"/>	General Comments: <input type="text" value="Had to paddle into creek to get sample not influenced by river"/>

Spl ID	Spl Date	Time	pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
CAP1220-GBC-1-121520	12-15-2020	14:55	6.28	8.99	191.40	4.98	230.81	11.30	Clear	No	-	-

**Sampling Data**

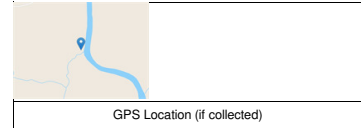
Sampling Method: <input type="text" value="Bottle Grab"/>	Multi Meter Used: <input type="text" value="Insitu Aqua Troll"/>
	Multi Meter ID: <input type="text" value="706720"/>

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

ALL PARAMETERS ANALYZED
Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)

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

Latitude:	<input type="text" value="34.8148677623878"/>
Longitude:	<input type="text" value="-78.8218051851251"/>



**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="Lock-Dam-Seep-North"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="CHARLES PACE CHRIS MCGINNESS JELANI GILLI"/>	Sampling Event: <input type="text" value="Monthly CAP"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="12/15/2021"/>	Time: <input type="text" value="13:00"/>	General Comments: <input type="text" value="No seep was found, no sample collected"/>

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

**Sampling Data**

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

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

WEATHER CONDITIONS	
Temperature (F):	43.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	6

Latitude:

Longitude:

GPS Location (if collected)



**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: Lock-Dam Seep	Project Manager: Tracy Ovbey
Samplers: CHARLES PACE CHRIS MCGINNESS JELANI GILL	Sampling Event: Monthly CAP	Event Type: Sampling
Date: 12-15-2020	Time: 12:52	General Comments:

Spl ID	Spl Date	Time	pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
CAP1220-LOCK-DAM-SEEP-121520	12-15-2020	13:00	6.42	8.86	87.60	36.67	167.05	9.45	Cloudy	None	-	

**Sampling Data**

Sampling Method: Bottle Grab

Multi Meter Used: Insitu Aqua Troll

Multi Meter ID: 766679

Flow Rate: -

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):	43.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	6

Latitude: -

Longitude: -

GPS Location (if collected)

**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: OLD-1	Project Manager: Tracy O'bey
Samplers: CHARLES PACE CHRIS MCGINNESS	Sampling Event: Monthly CAP	Event Type: Sampling
Date: 12-16-2020	Time: 13:30	General Comments:

Spl ID	Spl Date	Time	pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
CAP1220-OLDOF-1-7-121520	12-15-2020	15:06	5.53	9.96	158.10	52.96	238.75	12.51	Cloudy	None	-	-

**Sampling Data**

Sampling Method: ISCO Composite	Multi Meter Used: Insitu Aqua Troll
ISCO Start Date and Time: 12-15-2020 09:06	Multi Meter ID: 766679
ISCO End Date and Time: 12-15-2020 15:06	

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

ALL PARAMETERS ANALYZED
Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)

WEATHER CONDITIONS	
Temperature (F):	45.00
Sky:	Cloudy
Precipitation:	Rain
Wind (mph)	6

Latitude: -  
Longitude: -

GPS Location (if collected)

Blank area for notes or observations.

Blank area for notes or observations.

**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: OUTFALL 002	Project Manager: Tracy Ovbey
Samplers: CHARLES PACE CHRIS MCGINNESS	Sampling Event: Monthly CAP	Event Type: Sampling
Date: 12-16-2020	Time: 14:39	General Comments:

Spl ID	Spl Date	Time	pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
CAP1220-OUTFALL-002-24-121620	12/16/2020	7:46	6.72	10.09	271.10	15.15	170.56	14.21	Clear	None	MS REP	

**Sampling Data**

Sampling Method: ISCO Composite	Multi Meter Used: Insitu Aqua Troll
ISCO Start Date and Time: 12/15/2020 8:46	Multi Meter ID: 766679
ISCO End Date and Time: 12/16/2020 7:46	

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):	43.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	7

Latitude: -  
Longitude: -

GPS Location (if collected)

Blank area for notes or observations.

Blank area for notes or observations.

**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: RIVER WATER INTAKE	Project Manager: Tracy Ovbey
Samplers: CHARLES PACE CHRIS MCGINNESS	Sampling Event: Monthly CAP	Event Type: Sampling
Date: 12-16-2020	Time: 14:20	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-INTAKE-24-121620	12-16-2020	07:06	7.47	10.12	346.10	24.93	99.61	11.41	Clear	None	DUP	

**Sampling Data**

Sampling Method: ISCO Composite	Multi Meter Used: Insitu Aqua Troll
ISCO Start Date and Time: 12-15-2020 08:06	Multi Meter ID: 766679
ISCO End Date and Time: 12-16-2020 07:06	

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):	45.00
Sky:	Cloudy
Precipitation:	Rain
Wind (mph)	7

Latitude:	-
Longitude:	-

GPS Location (if collected)
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**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: SEEP-A-1	Project Manager: Tracy Ovbey
Samplers: JELANI GILL JOHNATHAN CAUDILL	Sampling Event: Monthly CAP	Event Type: Sampling
Date: 12-16-2020	Time: 09:12	General Comments:

Spl ID	Spl Date	Time	pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
CAP1220-SEEP-A-24-121620	12-16-2020	07:24	6.12	6.58	153.80	22.32	285.73	8.40	Zlear	None	-	

**Sampling Data**

Sampling Method: ISCO Composite	Multi Meter Used: Insitu Aqua Troll
ISCO Start Date and Time: 12-15-2020 08:24	Multi Meter ID: 766679
ISCO End Date and Time: 12-16-2020 07:24	

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

ALL PARAMETERS ANALYZED
Table 3+ (21)(HL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)

WEATHER CONDITIONS	
Temperature (F):	39.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	6

Latitude: -  
Longitude: -

GPS Location (if collected)

Blank area for notes or observations.

Blank area for notes or observations.

**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: SEEP-B-1	Project Manager: Tracy Ovbey
Samplers: CHARLES PACE CHRIS MCGINNESS	Sampling Event: Monthly CAP	Event Type: Sampling
Date: 12-16-2020	Time: 12:00	General Comments:

Spl ID	Spl Date	Time	pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
CAP1220-SEEP-B-21-121620	12-16-2020	04:30	4.98	10.64	81.50	5.30	109.94	8.39	Clear	None	-	-

**Sampling Data**

Sampling Method: ISCO Composite	Multi Meter Used: Insitu Aqua Troll
ISCO Start Date and Time: 12-15-2020 08:30	Multi Meter ID: 706682
ISCO End Date and Time: 12-16-2020 04:30	

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):	46.00
Sky:	Partly Cloudy
Precipitation:	Rain
Wind (mph)	6

Latitude: -  
Longitude: -

GPS Location (if collected)



**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: SEEP-C-1	Project Manager: Tracy Ovbey
Samplers: CHARLES PACE CHRIS MCGINNESS	Sampling Event: Monthly CAP	Event Type: Sampling
Date: 12-16-2020	Time: 11:30	General Comments:

Spl ID	Spl Date	Time	pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
CAP1220-SEEP-C-24-121620	12-16-2020	07:48	8.51	7.21	104.30	49.01	217.04	10.45	Cloudy	None	-	

**Sampling Data**

Sampling Method: ISCO Composite	Multi Meter Used: Insitu Aqua Troll
ISCO Start Date and Time: 12-15-2020 08:48	Multi Meter ID: 706682
ISCO End Date and Time: 12-16-2020 07:48	

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):	46.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	6

Latitude: -  
Longitude: -

GPS Location (if collected)

[Empty Box]

[Empty Box]

**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: SEEP-D-1	Project Manager: Tracy Ovbey
Samplers: CHARLES PACE CHRIS MCGINNESS LUKE TART	Sampling Event: Monthly CAP	Event Type: Sampling
Date: 12-16-2020	Time: 12:35	General Comments:

Spl ID	Spl Date	Time	pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
CAP1220-SEEP-D-24-121620	12/16/2020	7:48	3.94	8.66	245.60	0.32	150.05	12.59	Clear	None	-	-

**Sampling Data**

Sampling Method: ISCO Composite	Multi Meter Used: Insitu Aqua Troll
ISCO Start Date and Time: 12/15/2020 8:48	Multi Meter ID: 706682
ISCO End Date and Time: 12/16/2020 7:48	

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

ALL PARAMETERS ANALYZED
Table 3+ (21)(HL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)

WEATHER CONDITIONS	
Temperature (F):	45.00
Sky:	Partly Cloudy
Precipitation:	Rain
Wind (mph)	6

Latitude: -  
Longitude: -

GPS Location (if collected)

Blank area for notes or additional data.

Blank area for notes or additional data.

**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: WC-1	Project Manager: Tracy Ovbey
Samplers: JELANI GILL JOHNATHAN CAUDILL	Sampling Event: Monthly CAP	Event Type: Sampling
Date: 12-16-2020	Time: 10:30	General Comments:

Spl ID	Spl Date	Time	pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
CAP1220-WC-1-22-121620	12-16-2020	05:00	6.87	10.64	81.50	2.50	115.94	7.13	Clear	None	-	-

**Sampling Data**

Sampling Method: ISCO Composite	Multi Meter Used: Insitu Aqua Troll
ISCO Start Date and Time: 12-15-2020 08:00	Multi Meter ID: 766679
ISCO End Date and Time: 12-16-2020 05:00	

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

**ALL PARAMETERS ANALYZED**

Table 3+ (21)(LL) Including HFPO-DA and PFHpA; 537 MOD (HOLD)

WEATHER CONDITIONS	
Temperature (F):	38.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	6

Latitude: -  
Longitude: -

GPS Location (if collected)

Blank area for notes or additional data.

Blank area for notes or additional data.

**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-TARHEEL	Project Manager: Tracy Ovbey
Samplers: JOEY VIDMARIEZIO	Sampling Event: Weekly River	Event Type: Sampling
Date: 10-01-2020	Time: 12:42	General Comments: Due to 1.5 inches of rain falling on 9/29/20 we are collecting and shipping Wednesday 9/30/20 sample instead of Thursday's 10/01/20 sample.

Spl ID	Spl Date	Time	Parameters		pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
			Date	Time										
CFR-TARHEEL-24-093020	9/30/2020	23:01	10-01-2020	12:45	8.30	0.02	8.80	51.82	1318.70	26.63	Cloudy	None		

**Sampling Data**

Sampling Method: ISCO Composite	Multi Meter Used: In Situ Aqua Troll
ISCO Start Date and Time: 9/30/2020 0:01	Multi Meter ID: 706720
ISCO End Date and Time: 9/30/2020 23:01	

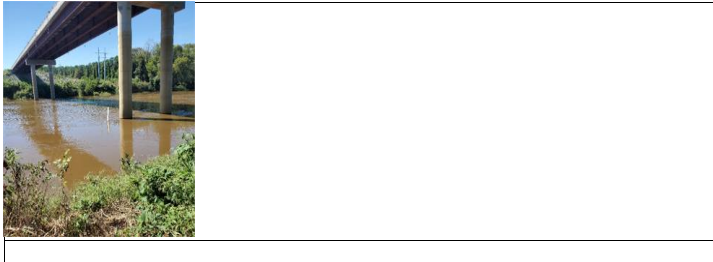
SAMPLE SET					
Parameter	Bottle			Pres.	Method
PFAS	2-250 mL poly			NP	537 Mod Including HFPO-DA
PFAS	250 mL poly			NP	Table 3+ (19)(LL)
PFAS	250 mL poly			NP	Table 3+ (20)(LL)
PFAS	250 mL poly			NP	Table 3+ (19)(HL)
PFAS	250 mL poly			NP	Table 3+ (21)(LL) Including HFPO-DA and PFHpA
PFAS	250 mL poly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

ALL PARAMETERS ANALYZED
Table 3+ (21)(LL) Including HFPO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	75.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

Latitude:	
Longitude:	
Staff Gauge Water Level Reading (ft):	11.8
Temperature Reading (degrees C):	24
Rain Reading (mm)	50

GPS Location (if collected)
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**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="CFR-TARHEEL"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="JAMES BRIGGS/LUKE TART"/>	Sampling Event: <input type="text" value="Weekly River"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="10-06-2020"/>	Time: <input type="text" value="14:20"/>	General Comments: <input type="text" value="ISCO pump failure, no samples collected after 17:01 on 10/01/20. Collected and shipped that sample. Restarted ISCO at 17:30."/>

Spl ID	Spl Date	Time	Parameters		pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
			Date	Time										
CFR-TARHEEL-18-100120	10/1/2020	17:01	10-06-2020	15:12	6.83	7.10	138.80	13.24	141.42	27.66	Clear	None	-	

**Sampling Data**

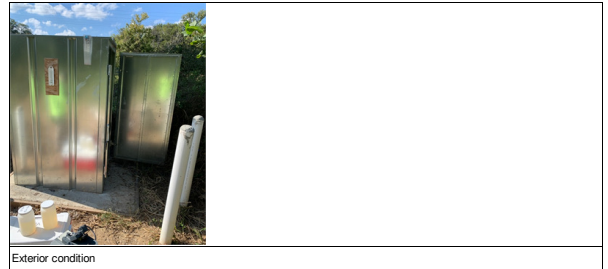
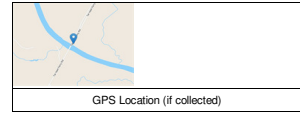
Sampling Method: <input type="text" value="ISCO Composite"/>	Multi Meter Used: <input type="text" value="Insitu Aqua Troll"/>
ISCO Start Date and Time: <input type="text" value="10-01-2020 00:01"/>	Multi Meter ID: <input type="text" value="706682"/>
ISCO End Date and Time: <input type="text" value="10/1/2020 17:01"/>	

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

ALL PARAMETERS ANALYZED
Table 3+ (21)(LL) Including HFPO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	79.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	3

Latitude:	<input type="text" value="34.7449579133109"/>
Longitude:	<input type="text" value="-78.7852225354318"/>
Staff Gauge Water Level Reading (ft):	<input type="text" value="4.1"/>
Temperature Reading (degrees C):	<input type="text" value="27"/>
Rain Reading (mm)	<input type="text" value="0"/>



**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="CFR-TARHEEL"/>	Project Manager: <input type="text" value="Tracy Oxbey"/>
Samplers: <input type="text" value="CHARLES PACE(CHRIS MCGINNIS)"/>	Sampling Event: <input type="text" value="Weekly River"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="10-09-2020"/>	Time: <input type="text" value="11:15"/>	General Comments: <input type="text" value="Per special request also shipped: (1) CFR-TARHEEL-24-092920 00:01-23:01, Sample Date/Time: 9/29/2020 23:01; (2) CFR-TARHEEL-9-100620 15:30-23:30, Sample Date/Time: 10/6/2020 23:30."/>

Spl ID	Spl Date	Time	Parameters		pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
			Date	Time										
CFR-TARHEEL-24-100820	10-08-2020	16:30	10/9/2020	11:20	7.63	7.40	72.30	19.90	103.90	22.10	Murky	No	-	Due to program failure ISCO began 24hr Comp on 17:30 10/06/20 instead of 00:01 10/7/20. This issue has been rectified.

**Sampling Data**

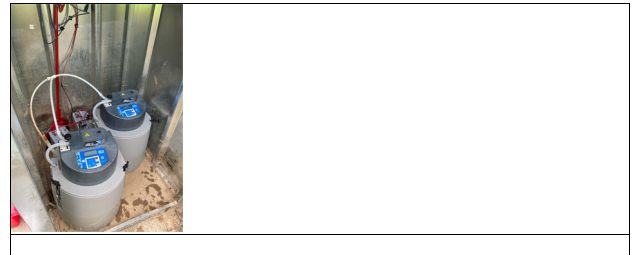
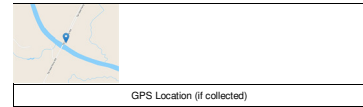
Sampling Method: <input type="text" value="ISCO Composite"/>	Multi Meter Used: <input type="text" value="Insitu Aqua Troll"/>
ISCO Start Date and Time: <input type="text" value="10-07-2020 17:30"/>	Multi Meter ID: <input type="text" value="706720"/>
ISCO End Date and Time: <input type="text" value="10-08-2020 16:30"/>	

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

ALL PARAMETERS ANALYZED
Table 3+ (21)(LL) Including HFPO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	78.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	4

Latitude:	<input type="text" value="34.7449890810514"/>
Longitude:	<input type="text" value="-78.785056770963"/>
Staff Gauge Water Level Reading (ft):	<input type="text" value="1.8"/>
Temperature Reading (degrees C):	<input type="text" value="25"/>
Rain Reading (mm)	<input type="text" value="0"/>



**SURFACE WATER SAMPLING RECORD**

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

Spl ID	Spl Date	Time	Parameters		pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
			Date	Time										
CFR-TARHEEL-24-101220	10-12-2020	23:01	10-13-2020	12:57	8.23	5.51	18.00	380.27	620.86	26.67	Cloudy	None	-	-

**Sampling Data**

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

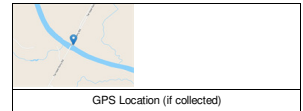
SAMPLE SET					
Parameter	Bottle			Pres.	Method
PFAS	2-250 mL poly			NP	537 Mod Including HFPO-DA
PFAS	250 mL poly			NP	Table 3+ (19)(LL)
PFAS	250 mL poly			NP	Table 3+ (20)(LL)
PFAS	250 mL poly			NP	Table 3+ (19)(HL)
PFAS	250 mL poly			NP	Table 3+ (21)(LL) Including HFPO-DA and PFHpA
PFAS	250 mL poly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

**ALL PARAMETERS ANALYZED**

Table 3+ (21)(LL) Including HFPO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	76.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	6

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



**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="CFR-TARHEEL"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="EZIO AMBROSETTI MATT SCHEUER "/>	Sampling Event: <input type="text" value="Weekly River"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="10-16-2020"/>	Time: <input type="text" value="10:18"/>	General Comments: <input type="text" value=""/>

Spl ID	Spl Date	Time	Parameters		pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
			Date	Time										
CFR-TARHEEL-24-101520	10-15-2020	23:01	10-16-2020	10:32	7.66	7.01	16.60	176.69	275.33	23.56	Cloudy	N/A	-	-

**Sampling Data**

Sampling Method: <input type="text" value="ISCO Composite"/>	Multi Meter Used: <input type="text" value="Insitu Aqua Troll"/>
ISCO Start Date and Time: <input type="text" value="10-15-2020 00:01"/>	Multi Meter ID: <input type="text" value="706720"/>
ISCO End Date and Time: <input type="text" value="10-15-2020 23:01"/>	

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

ALL PARAMETERS ANALYZED
Table 3+ (21)(LL) Including HFPO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	72.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	5

Latitude:	<input type="text" value="-"/>
Longitude:	<input type="text" value="-"/>
Staff Gauge Water Level Reading (ft):	<input type="text" value="6.5"/>
Temperature Reading (degrees C):	<input type="text" value="23"/>
Rain Reading (mm)	<input type="text" value="2"/>

GPS Location (# collected)
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**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="CFR-TARHEEL"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="CHRIS MCGINNIS(MATT SCHEUER)"/>	Sampling Event: <input type="text" value="Weekly River"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="10-20-2020"/>	Time: <input type="text" value="12:50"/>	General Comments: <input type="text" value=""/>

Spl ID	Spl Date	Time	Parameters		pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
			Date	Time										
CFR-TARHEEL-24-101920	10-19-2020	23:01	10-20-2020	12:55	7.95	8.06	-11.50	46.18	298.52	23.50	Reddish brown	No	-	-

**Sampling Data**

Sampling Method: <input type="text" value="ISCO Composite"/>	Multi Meter Used: <input type="text" value="Insitu Aqua Troll"/>
ISCO Start Date and Time: <input type="text" value="10-19-2020 00:01"/>	Multi Meter ID: <input type="text" value="706720"/>
ISCO End Date and Time: <input type="text" value="10-19-2020 23:01"/>	

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

ALL PARAMETERS ANALYZED
Table 3+ (21)(LL) Including HFPO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	77.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	5

Latitude:	<input type="text" value="-"/>
Longitude:	<input type="text" value="-"/>
Staff Gauge Water Level Reading (ft):	<input type="text" value="5.35"/>
Temperature Reading (degrees C):	<input type="text" value="36"/>
Rain Reading (mm)	<input type="text" value="0"/>

GPS Location (# collected)
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**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="CFR-TARHEEL"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="CHRIS MCGINNIS JOEY VIDMAR "/>	Sampling Event: <input type="text" value="Weekly River"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="10-23-2020"/>	Time: <input type="text" value="10:11"/>	General Comments: <input type="text" value=""/>

Spl ID	Spl Date	Time	Parameters		pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
			Date	Time										
CFR-TARHEEL-24-102220	10/22/2020	23:01	10-23-2020	10:20	7.24	7.11	63.90	45.93	121.89	23.08	Brownish	None	-	-

**Sampling Data**

Sampling Method: <input type="text" value="ISCO Composite"/>	Multi Meter Used: <input type="text" value="Insitu Aqua Troll"/>
ISCO Start Date and Time: <input type="text" value="10/22/2020 0:01"/>	Multi Meter ID: <input type="text" value="706720"/>
ISCO End Date and Time: <input type="text" value="10/22/2020 23:01"/>	

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

ALL PARAMETERS ANALYZED
Table 3+ (21)(LL) Including HFPO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	72.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	2

Latitude:	<input type="text" value="-"/>
Longitude:	<input type="text" value="-"/>
Staff Gauge Water Level Reading (ft):	<input type="text" value="2.9"/>
Temperature Reading (degrees C):	<input type="text" value="35"/>
Rain Reading (mm)	<input type="text" value="0"/>

GPS Location (if collected)
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Looking west from east bank

**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-TARHEEL	Project Manager: Tracy Oxbey
Samplers: JELANI GILL JOEY VIDMAR MATT SCHEUER	Sampling Event: Weekly River	Event Type: Sampling
Date: 11-03-2020	Time: 15:07	General Comments: Also collected and shipped: (1) CFR-TARHEEL-12-103020 12:01-23:01, Sample Date/Time: 10/30/20 23:01;(2)CFR-TARHEEL-24-103120 00:01-23:01, Sample Date/Time: 10/31/20 23:01.

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
			Date	Time										
CFR-TARHEEL-24-110220	11-02-2020	23:01	11-03-2020	15:00	8.09	8.38	24.00	142.47	266.10	21.18	Clear	No	-	

**Sampling Data**

Sampling Method: ISCO Composite	Multi Meter Used: In Situ Aqua Troll
ISCO Start Date and Time: 11-02-2020 00:01	Multi Meter ID: 706720
ISCO End Date and Time: 11-02-2020 23:01	

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

ALL PARAMETERS ANALYZED
Table 3+ (21)(LL) Including HFPO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	66.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	7

Latitude:	-
Longitude:	-
Staff Gauge Water Level Reading (ft):	5
Temperature Reading (degrees C):	18
Rain Reading (mm)	4.5

GPS Location (if collected)
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**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-TARHEEL	Project Manager: Tracy Ovbey
Samplers: EZIO AMBROSETTI/MATT SCHEUER	Sampling Event: Weekly River	Event Type: Sampling
Date: 11-10-2020	Time: 12:30	General Comments:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
			Date	Time										
CFR-TARHEEL-24-110920	11-09-2020	23:01	11-10-2020	12:45	8.18	2.50	91.00	3.88	3178.10	25.50	Cloudy	N/A	-	-

**Sampling Data**

Sampling Method: ISCO Composite	Multi Meter Used: Insitu Aqua Troll
ISCO Start Date and Time: 11-09-2020 00:01	Multi Meter ID: 706751
ISCO End Date and Time: 11-09-2020 23:01	

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

WEATHER CONDITIONS	
Temperature (F):	79.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	9

Latitude:	-
Longitude:	-
Staff Gauge Water Level Reading (ft):	1.9
Temperature Reading (degrees C):	28
Rain Reading (mm)	0

GPS Location (if collected)
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**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-TARHEEL	Project Manager: Tracy Ovbey
Samplers: JOEY VIDMARJA/lisa Young	Sampling Event: Weekly River	Event Type: Sampling
Date: 11/12/2020	Time: 12:15	General Comments: Did not collect rain level due to current rain intensity

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
			Date	Time										
CFR-TARHEEL-24-111120	11/11/2020 23:01		11-12-2020	12:15	6.92	6.91	135.20	106.48	1020.50	22.28	Clear	None	-	-

**Sampling Data**

Sampling Method: ISCO Composite	Multi Meter Used: Insitu Aqua Troll
ISCO Start Date and Time: 11/11/2020 0:01	Multi Meter ID: 766679
ISCO End Date and Time: 11/11/2020 23:01	

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)

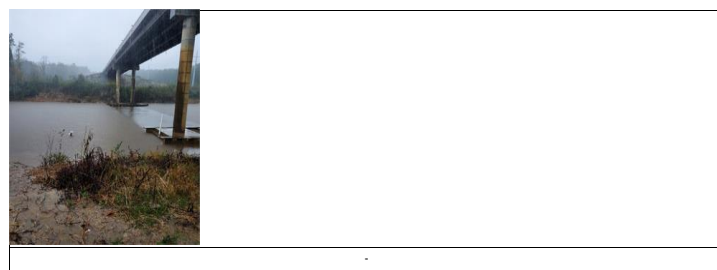
**ALL PARAMETERS ANALYZED**

Table 3+ (21)(LL) Including HFPO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	72.00
Sky:	Cloudy
Precipitation:	Rain
Wind (mph)	3

Latitude:	-
Longitude:	-
Staff Gauge Water Level Reading (ft):	6.5
Temperature Reading (degrees C):	22
Rain Reading (mm)	-

GPS Location (if collected)
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**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="CFR-TARHEEL"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="CHRIS MCGINNIS/JOHNATHAN CAUDILL"/>	Sampling Event: <input type="text" value="Weekly River"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="11-13-2020"/>	Time: <input type="text" value="13:40"/>	General Comments: <input type="text" value=""/>

Spl ID	Spl Date	Time	Parameters	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
			Date Time		mg/L	mV	NTU	µS/cm	°C				
CFR-TARHEEL-111320	11-13-2020	14:10	11-13-2020 14:00	6.87	6.14	83.10	112.23	264.36	20.02	Brown	None	-	Grab sample requested by Geosyntec. River level very high, sample taken from 20 feet up bank from isco shed.

**Sampling Data**

Sampling Method:  Multi Meter Used:

ISCO Start Date and Time:  Multi Meter ID:

ISCO End Date and Time:

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

WEATHER CONDITIONS	
Temperature (F):	63.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	2

Latitude:

Longitude:

Staff Gauge Water Level Reading (ft):

Temperature Reading (degrees C):

Rain Reading (mm):

GPS Location (if collected)

**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-TARHEEL	Project Manager: Tracy Ovbey
Samplers: ALISA YOUNG, JOEY VIDMAR	Sampling Event: Weekly River	Event Type: Sampling
Date: 11-18-2020	Time: 12:00	General Comments: Staff gauge was completely submerged underwater, unable to take reading

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
			Date	Time										
CFR-TARHEEL-111820	11/18/2020	12:25	11-18-2020	12:20	7.01	7.45	-15.50	21.48	203.21	17.09	Clear	No	-	-

**Sampling Data**

Sampling Method: Bailer	Multi Meter Used: Insitu Aqua Troll
ISCO Start Date and Time: -	Multi Meter ID: 706751
ISCO End Date and Time: -	

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

WEATHER CONDITIONS	
Temperature (F):	38.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	3

Latitude:	-
Longitude:	-
Staff Gauge Water Level Reading (ft):	-
Temperature Reading (degrees C):	17.09
Rain Reading (mm)	-

GPS Location (if collected)
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**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="CFR-TARHEEL"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="CHRIS.MCGINNESS JOEY.VIDMAR "/>	Sampling Event: <input type="text" value="Weekly River"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="11-20-2020"/>	Time: <input type="text" value="10:50"/>	General Comments: <input type="text" value=""/>

Spl ID	Spl Date	and arrival question sample time question		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
		Date	Time										
CFR-TARHEEL-112020	11-20-2020	11:06	11:06	7.84	9.24	69.60	41.05	271.95	19.14	Clear	None	-	-

**Sampling Data**

Sampling Method: <input type="text" value="Bailer"/>	Multi Meter Used: <input type="text" value="Insitu Aqua Troll"/>
ISCO Start Date and Time: <input type="text" value="-"/>	Multi Meter ID: <input type="text" value="766679"/>
ISCO End Date and Time: <input type="text" value="-"/>	

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)

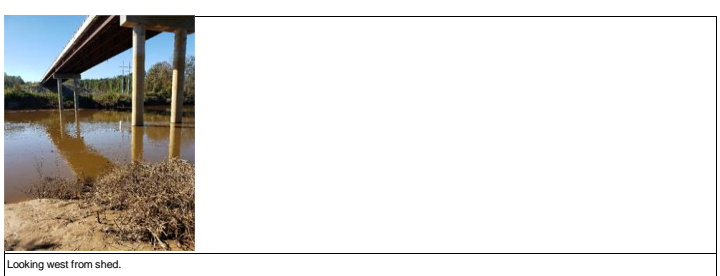
**ALL PARAMETERS ANALYZED**

Table 3+ (21)(LL) Including HFPO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	63.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	2

Latitude:	<input type="text" value="-"/>
Longitude:	<input type="text" value="-"/>
Staff Gauge Water Level Reading (ft):	<input type="text" value="13"/>
Temperature Reading (degrees C):	<input type="text" value="28"/>
Rain Reading (mm)	<input type="text" value="0"/>

GPS Location (if collected)
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**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-TARHEEL	Project Manager: Tracy Ovbey
Samplers: CHARLES PACE/JAMES BRIGGS/SHAWN ANDRUKATESI	Sampling Event: Weekly River	Event Type: Maintenance/Grab Sample
Date: 11-23-2020	Time: 10:48	General Comments: ISCO reinstalled after river level returned to safe levels.

Spl ID	Spl Date	Time	Parameters		pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
			Date	Time										
CFR-TARHEEL-112320	11/23/2020	14:45	-	-	-	-	-	-	-	-	-	-	-	Grab sample taken due to high river level. Sample held in case of request for future analysis.

**Sampling Data**

Sampling Method: ISCO Grab

ISCO Start Date and Time: -

ISCO End Date and Time: -

Multi Meter Used: -

Multi Meter ID: -

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**

No parameters analyzed; Sample not shipped as of 12/4/2020

WEATHER CONDITIONS	
Temperature (F):	70.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	4

Latitude: -

Longitude: -

Staff Gauge Water Level Reading (ft): 12.5

Temperature Reading (degrees C): 28

Rain Reading (mm): 0

GPS Location (if collected)



**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-TARHEEL	Project Manager: Tracy Ovbey
Samplers: ALISA YOUNG, JAMES BRIGGS, SHAWN ANDRUKATESI	Sampling Event: Weekly River	Event Type: Maintenance
Date: 11-25-2020	Time: 9:30	General Comments: Start insulating ISCO housing. Staff gauge was completely submerged underwater, unable to take reading.

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
			Date	Time		mg/L	mV	NTU	µS/cm	°C				
CFR-TARHEEL-24-112420	11/24/2020	23:01	11/25/2020	9:45	8.76	8.96	-330.00	64.72	3055.10	15.73	-	-	-	-

**Sampling Data**

Sampling Method: ISCO Composite      Multi Meter Used: Insitu Aqua Troll

ISCO Start Date and Time: 11/24/2020 0:01      Multi Meter ID: 766679

ISCO End Date and Time: 11/24/2020 23:01

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 HPFO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	54.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	2

Latitude: -

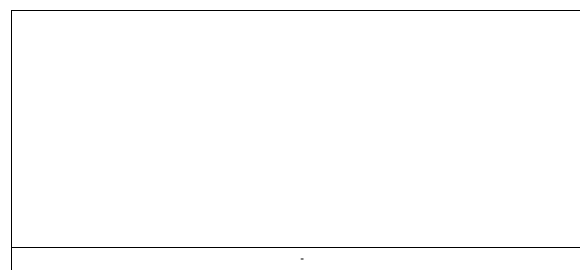
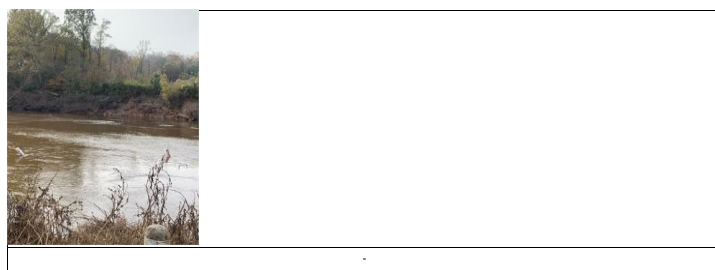
Longitude: -

Staff Gauge Water Level Reading (ft): -

Temperature Reading (degrees C): 15.73

Rain Reading (mm): -

GPS Location (if collected)



**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-TARHEEL	Project Manager: Tracy Ovbey
Samplers: ALISA YOUNG/JAMES BRIGGS	Sampling Event: Weekly River	Event Type: Sampling
Date: 11/27/2020	Time: 10:50	General Comments:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
			Date	Time										
CFR-TARHEEL-24-112620	11/26/2020	23:01	11-27-2020	11:03	7.44	8.91	25.90	29.47	222.11	19.43	-	-	-	-

**Sampling Data**

Sampling Method: ISCO Composite	Multi Meter Used: Insitu Aqua Troll
ISCO Start Date and Time: 11/26/2020 0:01	Multi Meter ID: 706682
ISCO End Date and Time: 11/26/2020 23:01	

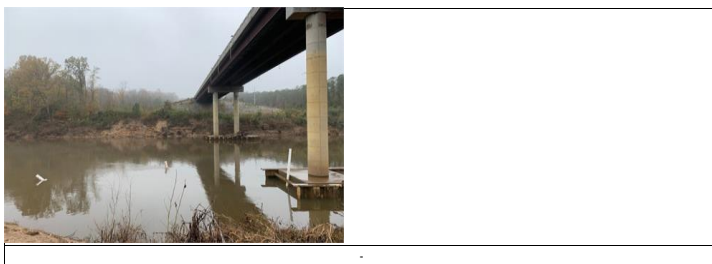
Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	537 Mod Including HFPO-DA
PFAS	250 mL poly	NP	Table 3+ (19)(LL)
PFAS	250 mL poly	NP	Table 3+ (20)(LL)
PFAS	250 mL poly	NP	Table 3+ (19)(HL)
PFAS	250 mL poly	NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly	NP	Table 3+ (21)(HL) Including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

ALL PARAMETERS ANALYZED
Table 3+ (21)(LL) Including HFPO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	68.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	1

Latitude:	-
Longitude:	-
Staff Gauge Water Level Reading (ft):	5.5
Temperature Reading (degrees C):	18.5
Rain Reading (mm)	9.5

GPS Location (if collected)
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**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-TARHEEL	Project Manager: Tracy Ovbey
Samplers: JELANI GILLIMATT SCHEUER	Sampling Event: Weekly River	Event Type: Sampling
Date: 12-01-2020	Time: 12:01	General Comments:

Spl ID	Spl Date	Time	Parameters	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
			Date Time		mg/L	mV	NTU	µS/cm	°C				
CFR-TARHEEL-24-113020	11-30-2020	23:01	12-01-2020 12:13	7.62	9.13	77.60	50.65	735.97	14.95	Clear	No	-	-

**Sampling Data**

Sampling Method: ISCO Composite	Multi Meter Used: Insitu Aqua Troll
ISCO Start Date and Time: 11-30-2020 00:01	Multi Meter ID: 706720
ISCO End Date and Time: 11-30-2020 23:01	

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

WEATHER CONDITIONS	
Temperature (F):	61.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

Latitude:	-
Longitude:	-
Staff Gauge Water Level Reading (ft):	9
Temperature Reading (degrees C):	16.5
Rain Reading (mm)	19

GPS Location (if collected)
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**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-TARHEEL	Project Manager: Tracy Ovbey
Samplers: JOEY VIDMARIMARK GUERRA	Sampling Event: Weekly River	Event Type: Sampling
Date: 12-04-2020	Time: 10:50	General Comments:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
			Date	Time		mg/L	mV	NTU	µS/cm	°C				
CFR-TARHEEL-24-120320	12/3/2020	23:01	12-04-2020	10:54	7.69	9.39	25.80	2.26	288.44	17.10	Cloudy	No	-	Samples collected were December 1st, 2nd and 3rd.

**Sampling Data**

Sampling Method: ISCO Composite	Multi Meter Used: Insitu Aqua Troll
ISCO Start Date and Time: 12/3/2020 0:01	Multi Meter ID: 706720
ISCO End Date and Time: 12/3/2020 23:01	

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)

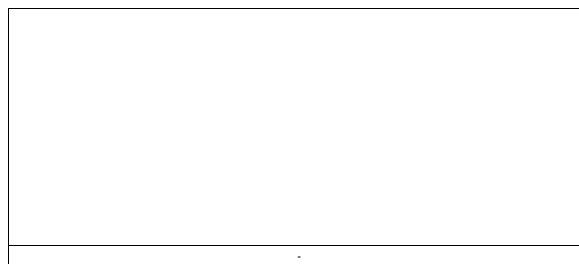
**ALL PARAMETERS ANALYZED**

Table 3+ (21)(LL) Including HFPO-DA and PFHpA

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

Latitude:	-
Longitude:	-
Staff Gauge Water Level Reading (ft):	10.5
Temperature Reading (degrees C):	21
Rain Reading (mm)	0

GPS Location (if collected)
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**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-TARHEEL	Project Manager: Tracy Ovbey
Samplers: MARK GUERRAIMATT SCHEUER	Sampling Event: Weekly River	Event Type: Sampling
Date: 12-08-2020	Time: 12:45	General Comments:

Spl ID	Spl Date	Time	Parameters		pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
			Date	Time										
CFR-TARHEEL-24-120720	12/7/2020	23:01	12-08-2020	12:50	7.44	10.08	14.20	34.65	121.98	12.96	Cloudy	NA	-	-

**Sampling Data**

Sampling Method: ISCO Composite      Multi Meter Used: Insitu Aqua Troll

ISCO Start Date and Time: 12/7/2020 0:01      Multi Meter ID: 706751

ISCO End Date and Time: 12/7/2020 23:01

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

WEATHER CONDITIONS	
Temperature (F):	44.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	10

Latitude: -

Longitude: -

Staff Gauge Water Level Reading (ft): 9.2

Temperature Reading (degrees C): 11

Rain Reading (mm): 7.5

GPS Location (if collected)

**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-TARHEEL	Project Manager: Tracy Ovbey
Samplers: BRANDON WEIDNER JOEY VIDMARI	Sampling Event: Weekly River	Event Type: Sampling
Date: 12-11-2020	Time: 09:30	General Comments: Samples from 12/8/20-12/10/20 picked up.

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
			Date	Time										
CFR-TARHEEL24-121020	12-10-2020	23:01	12-11-2020	09:40	7.78	9.23	53.40	39.81	129.32	12.08	Clear	None	-	-

**Sampling Data**

Sampling Method: ISCO Composite	Multi Meter Used: Insitu Aqua Troll
ISCO Start Date and Time: 12-10-2020 00:01	Multi Meter ID: 766679
ISCO End Date and Time: 12-10-2020 23:01	

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

WEATHER CONDITIONS	
Temperature (F):	65.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	5

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

GPS Location (if collected)
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**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-TARHEEL	Project Manager: Tracy Ovbey
Samplers: JOHNATHAN CAUDILL/LUKE TARTI	Sampling Event: Weekly River	Event Type: Sampling
Date: 12-16-2020	Time: 12:00	General Comments: No liquid detect error since last sample on 1159 Monday, 14Dec20.

Spl ID	Spl Date	Time	Parameters	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
			Date Time		mg/L	mV	NTU	µS/cm	°C				
CFR-TARHEEL-12-121420	12-14-2020	11:59	12-16-2020 13:57	7.99	7.70	0.90	25.12	145.55	11.50	Clear	No		Also shipped CFR-TARHEEL-24-121320. 00-01-23:01

**Sampling Data**

Sampling Method: ISCO Composite	Multi Meter Used: Insitu Aqua Troll
ISCO Start Date and Time: 12-14-2020 00:59	Multi Meter ID: 706720
ISCO End Date and Time: 12-14-2020 11:59	

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

WEATHER CONDITIONS	
Temperature (F):	43.00
Sky:	Cloudy
Precipitation:	Rain
Wind (mph)	6

Latitude:	
Longitude:	
Staff Gauge Water Level Reading (ft):	7.5
Temperature Reading (degrees C):	22
Rain Reading (mm)	26

GPS Location (if collected)
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**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-TARHEEL	Project Manager: Tracy Ovbey
Samplers: JELANI GILL JOHNATHAN CAUDILL	Sampling Event: Weekly River	Event Type: Sampling
Date: 12-17-2020	Time: 12:30	General Comments:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
			Date	Time										
CFR-TARHEEL-121720	12-17-2020	12:20	12-17-2020	12:29	7.53	10.98	67.60	36.93	108.70	14.22	Clear	No	-	-

**Sampling Data**

Sampling Method: Bailer	Multi Meter Used: Insitu Aqua Troll
ISCO Start Date and Time: -	Multi Meter ID: 706720
ISCO End Date and Time: -	

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

WEATHER CONDITIONS	
Temperature (F):	48.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	6

Latitude:	-
Longitude:	-
Staff Gauge Water Level Reading (ft):	11.5
Temperature Reading (degrees C):	11
Rain Reading (mm)	2

GPS Location (if collected)
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**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="CFR-TARHEEL"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="CHRIS MCGINNESSIMARK GUERRA"/>	Sampling Event: <input type="text" value="Weekly River"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="12-21-2020"/>	Time: <input type="text" value="13:49"/>	General Comments: <input type="text" value=""/>

Spl ID	Spl Date	Time	Parameters		pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC	Comments
			Date	Time										
CFR-TARHEEL-122120	12-21-2020	13:52	12-21-2020	13:52	7.36	10.27	165.90	36.96	105.14	13.10	Brownish	None	-	-

**Sampling Data**

Sampling Method: <input type="text" value="Bailer"/>	Multi Meter Used: <input type="text" value="Insitu Aqua Troll"/>
ISCO Start Date and Time: <input type="text" value="-"/>	Multi Meter ID: <input type="text" value="766679"/>
ISCO End Date and Time: <input type="text" value="-"/>	

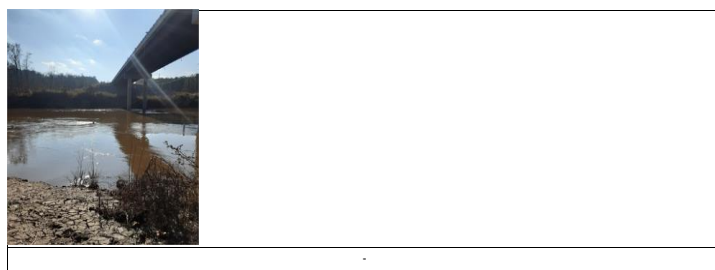
SAMPLE SET					
Parameter	Bottle			Pres.	Method
PFAS	2-250 mL poly			NP	537 Mod Including HFPO-DA
PFAS	250 mL poly			NP	Table 3+ (19)(LL)
PFAS	250 mL poly			NP	Table 3+ (20)(LL)
PFAS	250 mL poly			NP	Table 3+ (19)(HL)
PFAS	250 mL poly			NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly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

ALL PARAMETERS ANALYZED
Table 3+ (21)(LL) Including HFPO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	55.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	2

Latitude:	<input type="text" value="-"/>
Longitude:	<input type="text" value="-"/>
Staff Gauge Water Level Reading (ft):	<input type="text" value="13.1"/>
Temperature Reading (degrees C):	<input type="text" value="17"/>
Rain Reading (mm)	<input type="text" value="18"/>

<input type="text" value=""/>
GPS Location (if collected)



<input type="text" value=""/>
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**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="CFR-TARHEEL"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="CHRIS MCGINNESSILUKE TARTI"/>	Sampling Event: <input type="text" value="Weekly River"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="12-23-2020"/>	Time: <input type="text" value="09:16"/>	General Comments: <input type="text" value=""/>

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
			Date	Time										
CFR-TARHEEL-122320	12/23/2020	9:25	12-23-2020	9:30	7.97	9.94	57.70	31.76	177.32	11.28	Brownish	None	-	-

**Sampling Data**

Sampling Method: <input type="text" value="Bailer"/>	Multi Meter Used: <input type="text" value="Insitu Aqua Troll"/>
ISCO Start Date and Time: <input type="text" value="-"/>	Multi Meter ID: <input type="text" value="766679"/>
ISCO End Date and Time: <input type="text" value="-"/>	

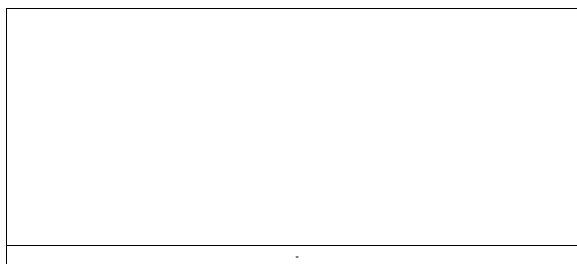
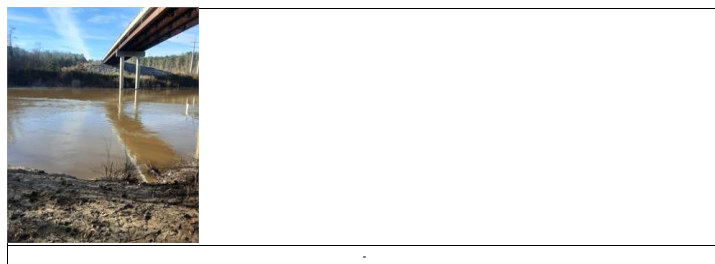
SAMPLE SET					
Parameter	Bottle			Pres.	Method
PFAS	2-250 mL poly			NP	537 Mod Including HFPO-DA
PFAS	250 mL poly			NP	Table 3+ (19)(LL)
PFAS	250 mL poly			NP	Table 3+ (20)(LL)
PFAS	250 mL poly			NP	Table 3+ (19)(HL)
PFAS	250 mL poly			NP	Table 3+ (21)(LL) Including HPFO-DA and PFHpA
PFAS	250 mL poly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

ALL PARAMETERS ANALYZED
Table 3+ (21)(LL) Including HFPO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	39.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	2

Latitude:	<input type="text" value="-"/>
Longitude:	<input type="text" value="-"/>
Staff Gauge Water Level Reading (ft):	<input type="text" value="13.6"/>
Temperature Reading (degrees C):	<input type="text" value="10"/>
Rain Reading (mm)	<input type="text" value="0"/>

<input type="text" value=""/>
GPS Location (if collected)



**SURFACE WATER SAMPLING RECORD**

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="CFR-TARHEEL"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="CHRIS MCGINNESSILUKE TARTI"/>	Sampling Event: <input type="text" value="Weekly River"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="12-24-2020"/>	Time: <input type="text" value="17:12"/>	General Comments: <input type="text" value="Rain event over 1.5 inches sampled as per the consent order"/>

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
			Date	Time										
CFR-TARHEEL-122820	12/24/2020	17:20	12-24-2020	19:20	8.25	9.60	27.90	22.23	165.99	15.47	Light brown	None	-	Parameters taken back at office

**Sampling Data**

Sampling Method: <input type="text" value="Bailer"/>	Multi Meter Used: <input type="text" value="Insitu Aqua Troll"/>
ISCO Start Date and Time: <input type="text" value="-"/>	Multi Meter ID: <input type="text" value="766679"/>
ISCO End Date and Time: <input type="text" value="-"/>	

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

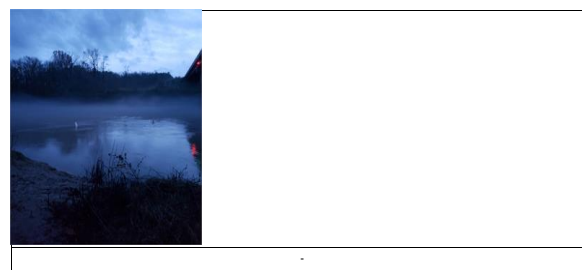
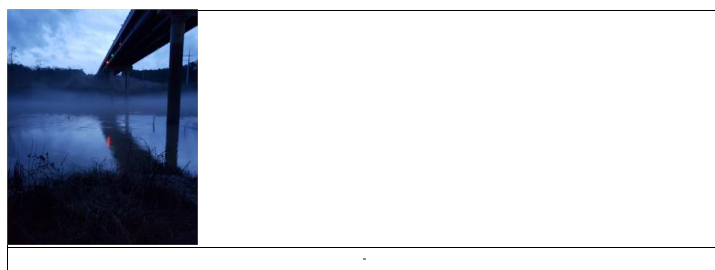
**ALL PARAMETERS ANALYZED**

Table 3+ (21)(LL) Including HFPO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	58.00
Sky:	Cloudy
Precipitation:	Rain
Wind (mph)	9

Latitude:	<input type="text" value="-"/>
Longitude:	<input type="text" value="-"/>
Staff Gauge Water Level Reading (ft):	<input type="text" value="12.9"/>
Temperature Reading (degrees C):	<input type="text" value="16"/>
Rain Reading (mm)	<input type="text" value="42"/>

<input type="text"/>
GPS Location (if collected)



**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-TARHEEL	Project Manager: Tracy Ovbey
Samplers: CHRIS MCGINNESSILUKE TARTI	Sampling Event: Weekly River	Event Type: Sampling
Date: 12-28-2020	Time: 13:00	General Comments: Staff gauge overtaken by river water

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
			Date	Time										
CFR-TARHEEL-122820	12-28-2020	13:10	12-28-2020	15:00	8.17	6.81	-5.80	31.86	1141.10	14.28	Cloudy	None	-	-

**Sampling Data**

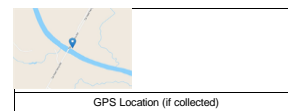
Sampling Method: Bailer	Multi Meter Used: Insitu Aqua Troll
ISCO Start Date and Time: -	Multi Meter ID: 766679
ISCO End Date and Time: -	

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

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

Latitude:	34.7448338962705
Longitude:	-78.7850484621489
Staff Gauge Water Level Reading (ft):	-
Temperature Reading (degrees C):	21
Rain Reading (mm)	3



**SURFACE WATER SAMPLING RECORD**

Site Name: Chemours Fayetteville	Location ID: CFR-TARHEEL	Project Manager: Tracy Oxbey
Samplers: BRANDON SHAFFER, MARK GUERRA	Sampling Event: Weekly River	Event Type: Sampling
Date: 12-30-2020	Time: 10:54	General Comments:

Spl ID	Spl Date	Time	Parameters	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC	Comments
			Date Time		mg/L	mV	NTU	µS/cm	°C				
CFR-TARHEEL-123020	12-30-2020	10:56	12-30-2020 11:17	7.04	10.61	106.90	62.83	84.49	8.94	Cloudy	No		

**Sampling Data**

Sampling Method:  Multi Meter Used:

ISCO Start Date and Time:  Multi Meter ID:

ISCO End Date and Time:

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

WEATHER CONDITIONS	
Temperature (F):	39.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	3

Latitude:

Longitude:

Staff Gauge Water Level Reading (ft):

Temperature Reading (degrees C):

Rain Reading (mm):

GPS Location (if collected)



**RECORD OF WELL SAMPLING**

Site Name: Chemours Fayetteville

Well ID: BLADEN-1D

Well Diameter: 2 Inches

Samplers: MEGAN JUNOD

Event: Monthly CAP

Project Manager: Tracy Ovbey

**Purging Data**  
 Pump Depth: -  
 Pump Loc: -  
 Method: - Date: 12-22-2020 Time: 15:30

WATER VOLUME CALCULATION		
= (Total Depth of Well - Depth To Water ) x Casing Volume per Foot		
Water Volume =	-	-
Initial Depth to Water (ft.):	-	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	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	No field team visited the well and it was not sampled due to well being collapsed.

**Sampling Data**  
 Zero HS: -  
 Method: - Date: - Time: -  
 Field Filtered: -  
 Purge Start Time: -  
 Total Volume Purged (mL): -

**Field Parameters**

STABILIZED PARAMETERS	
pH	-
Spec. Cond.(µS/cm)	-
Turbidity (NTU)	-
Temp.(°C)	-
DO (mg/L)	-
ORP (mV)	-

Screen Interval:

37 - 47

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: -  
 Duplicate ID: -  
 QA/QC: -

ALL PARAMETERS ANALYZED
Well was not sampled; No parameters analyzed.

WEATHER CONDITIONS	
Temperature (F):	-
Sky:	-
Precipitation:	-
Wind (mph)	-

**RECORD OF WELL SAMPLING**

Site Name: Chemours Fayetteville

Well ID: LTW-01

Well Diameter: 2 Inches

Samplers: JELANI GILL|MARK GUERRA

Event: Monthly CAP

Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 19

Pump Loc: within screen

Method: Peristaltic Pump

Date: 12-10-2020

Time: 12:40

**WATER VOLUME CALCULATION**

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

Water Volume =	2.163
Initial Depth to Water (ft.):	15.26
Depth to Well Bottom (ft.):	28.78

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			
13:05	15.54	250.00	2750.00	-	-	-	-	-	-	-	-	No parameters taken. Battery lost power. Regained power by connecting battery to the truck.
13:10	15.53	250.00	1250.00	3.93	0.17	173.70	1.18	121.95	18.24	Clear	No	
13:15	15.54	250.00	1250.00	3.93	0.15	176.60	1.06	122.18	18.61	Clear	No	
13:20	15.55	250.00	1250.00	3.94	0.16	181.30	0.00	121.89	18.55	Clear	No	
13:25	15.54	250.00	1250.00	3.94	0.16	189.00	0.00	121.96	18.47	Clear	No	

**Sampling Data**

Zero HS:

Method: Low Flow

Date: 12-10-2020

Time: 13:30

Purge Start Time: 12:54

Field Filtered: No

Total Volume Purged (mL): 7750.00

**Field Parameters**

STABILIZED PARAMETERS	
pH	3.94
Spec. Cond.(µS/cm)	121.96
Turbidity (NTU)	0.00
Temp.(°C)	18.47
DO (mg/L)	0.16
ORP (mV)	189.00

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: CAP1220-LTW-01-121020  
 DuplicateID: -  
 QA/QC: -

ALL PARAMETERS ANALYZED
537 MOD (HOLD) Table 3+ (21)(HL) Including HPFO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	52.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	3



**RECORD OF WELL SAMPLING**

Site Name: Chemours Fayetteville

Well ID: LTW-02

Well Diameter: 2 Inches

Samplers: JELANI GILL|MARK GUERRA

Event: Monthly CAP

Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 29

Pump Loc: within screen

Method: Peristaltic Pump

Date: 12-10-2020

Time: 11:05

**WATER VOLUME CALCULATION**

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

Water Volume =	4.84
Initial Depth to Water (ft.):	9.45
Depth to Well Bottom (ft.):	39.70

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			
11:40	9.56	270.00	1620.00	5.05	0.15	52.50	0.00	75.09	17.74	Clear	No	
11:45	9.56	270.00	1350.00	4.92	0.13	41.90	0.00	74.01	17.68	Clear	No	
11:50	9.58	270.00	1350.00	5.01	0.11	23.90	0.00	73.33	17.76	Clear	No	
11:55	9.58	270.00	1350.00	4.86	0.10	7.50	0.00	73.56	17.69	Clear	No	
12:00	9.58	270.00	1350.00	4.86	0.09	-3.20	0.00	73.46	17.51	Clear	No	
12:05	9.58	270.00	1350.00	4.82	0.09	-12.60	0.00	73.28	17.61	Clear	No	
12:10	9.58	270.00	1350.00	4.88	0.09	-15.90	0.00	73.33	17.69	Clear	No	

**Sampling Data**

Zero HS:

Method: Low Flow

Date: 12-10-2020 Time: 12:15

Purge Start Time: 11:34

Total Volume Purged (mL): 9720.00

Field Filtered: No

**Field Parameters**

STABILIZED PARAMETERS	
pH	4.88
Spec. Cond. (µS/cm)	73.33
Turbidity (NTU)	0.00
Temp. (°C)	17.69
DO (mg/L)	0.09
ORP (mV)	-15.90

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 (HOLD)|Table 3+ (21)(HL) Including HPFO-DA and PFHpA

Sample ID: CAP1220-LTW-02-121020

DuplicateID: -

QA/QC: -

**WEATHER CONDITIONS**

Temperature (F):	57.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	3

## RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: LTW-03

Well Diameter: 2 Inches

Samplers: CHRIS MCGINNESS/MARK GUERRA

Event: Monthly CAP

Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 20

Pump Loc: within screen

Method: Peristaltic Pump

Date: 12-22-2020

Time: 12:35

**WATER VOLUME CALCULATION**

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

Water Volume =	2.968
Initial Depth to Water (ft.):	11.45
Depth to Well Bottom (ft.):	30.0

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	11.90	160.00	2400.00	4.49	0.42	171.40	3.15	79.54	17.83	None	None	
13:09	11.95	160.00	1440.00	4.48	0.32	166.10	0.00	79.51	17.68	None	None	
13:17	11.98	160.00	1280.00	4.49	0.29	163.20	0.00	79.20	17.66	None	None	
13:23	11.99	160.00	960.00	4.50	0.26	161.90	0.00	79.45	17.67	None	None	
13:29	12.00	160.00	960.00	4.50	0.27	160.60	0.01	78.48	17.73	None	None	
13:36	12.02	160.00	1120.00	4.50	0.26	158.50	2.75	78.52	17.69	None	None	

**Sampling Data**

Zero HS:

Purge Start Time: 12:45

Method: Low Flow

Date: 12-22-2020 Time: 13:40

Total Volume Purged (mL): 8160.00

Field Filtered: No

**Field Parameters**

STABILIZED PARAMETERS	
pH	4.50
Spec. Cond. (µS/cm)	78.52
Turbidity (NTU)	2.75
Temp. (°C)	17.69
DO (mg/L)	0.26
ORP (mV)	158.50

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**

Table 3+ (21)(HL) Including HPFO-DA and PFHpA; 537 MOD (HOLD)

Sample ID:	CAP1220-LTW-03-122220
DuplicateID:	-
QA/QC:	-

**WEATHER CONDITIONS**

Temperature (F):	55.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

## RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: LTW-04

Well Diameter: 2 Inches

Samplers: MARK GUERRA|MATT SCHEUER

Event: Monthly CAP

Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 22

Pump Loc: within screen

Method: Peristaltic Pump

Date: 12-08-2020

Time: 14:00

**WATER VOLUME CALCULATION**

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

Water Volume =	3.059		
Initial Depth to Water (ft.):	7.88	Depth to Well Bottom (ft.):	27.0

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			
14:55	9.96	150.00	3750.00	4.55	0.28	96.00	0.07	79.00	12.05	Clearish	Na	There were issues with draw down. There were multiple starts and stops for adjustments before purging was stable. The final purge start time was 14:50.
15:00	9.69	100.00	500.00	4.57	0.28	111.10	0.00	75.76	11.92	Clearish	Na	
15:05	9.61	100.00	500.00	4.66	0.28	114.50	0.00	74.74	11.50	Clearish	N/a	Turbidity for the Insitu Aqua Troll might not have been calibrated properly before sampling. Turbidity was recalibrated and it was measured again for the samples affected. There was minimum difference in the two turbidity values.
15:10	9.60	100.00	500.00	4.57	0.26	116.10	0.00	74.60	11.80	Clearish	Na	

**Sampling Data**

Zero HS:

Method: Low Flow

Date: 12-08-2020

Time: 15:15

Purge Start Time: 14:30

Field Filtered: No

Total Volume Purged (mL): 5250.00

**Field Parameters**

STABILIZED PARAMETERS	
pH	4.57
Spec. Cond. (µS/cm)	74.60
Turbidity (NTU)	0.00
Temp. (°C)	11.80
DO (mg/L)	0.26
ORP (mV)	116.10

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)

**ALL PARAMETERS ANALYZED**

537 MOD (HOLD)|Table 3+ (21)(HL) Including HPFO-DA and PFHpA

Sample ID:	CAP1220-LTW-04-120820
DuplicateID:	-
QA/QC:	-

**WEATHER CONDITIONS**

Temperature (F):	46.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	10

**RECORD OF WELL SAMPLING**

Site Name: Chemours Fayetteville

Well ID: LTW-05

Well Diameter: 2 Inches

Samplers: ALISA YOUNGJELANI GILL

Event: Monthly CAP

Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 32

Pump Loc: within screen

Method: Peristaltic Pump

Date: 12-09-2020

Time: 12:28

**WATER VOLUME CALCULATION**

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

Water Volume =	6.046	
Initial Depth to Water (ft.):	9.48	Depth to Well Bottom (ft.): 47.27

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			
13:00	9.54	200.00	1000.00	4.29	0.15	79.10	30.63	105.07	16.19	Clear	No	
13:10	9.54	200.00	2000.00	4.30	0.11	73.40	95.95	104.96	16.35	Clear	No	
13:15	9.54	200.00	1000.00	4.30	0.09	67.70	78.47	104.90	16.03	Clear	No	
13:21	9.54	200.00	1200.00	4.34	0.08	63.70	93.52	104.99	15.93	Clear	No	
13:25	9.54	200.00	800.00	4.36	0.07	60.20	95.38	104.23	16.22	Clear	No	
13:30	9.54	200.00	1000.00	4.37	0.07	55.30	106.11	104.14	16.47	Clear	No	
13:35	9.54	200.00	1000.00	4.36	0.06	51.90	61.79	104.05	16.33	Clear	No	
13:40	9.54	200.00	1000.00	4.36	0.06	51.20	58.66	104.42	16.36	Clear	No	
13:45	9.54	200.00	1000.00	4.33	0.06	49.10	54.86	104.15	16.29	Clear	No	
13:50	9.54	200.00	1000.00	4.32	0.05	47.90	24.92	104.30	16.62	Clear	No	
13:55	9.54	200.00	1000.00	4.33	0.05	47.20	27.58	104.00	15.99	Clear	No	
14:00	9.54	200.00	1000.00	4.32	0.05	45.70	21.59	104.58	16.21	Clear	No	
14:05	9.54	200.00	1000.00	4.31	0.05	45.80	10.11	104.92	16.37	Clear	No	
14:10	9.54	200.00	1000.00	4.29	0.05	45.00	11.16	105.17	16.15	Clear	No	
14:15	9.54	200.00	1000.00	4.29	0.05	45.30	7.20	105.38	16.29	Clear	No	

**Sampling Data**

Zero HS:

Method: Low Flow

Field Filtered: No

Date: 12-09-2020

Time: 14:20

Purge Start Time: 12:55

Total Volume Purged (mL): 16000.00

**Field Parameters**

STABILIZED PARAMETERS	
pH	4.29
Spec. Cond.(µS/cm)	105.38
Turbidity (NTU)	7.20
Temp.(°C)	16.29
DO (mg/L)	0.05
ORP (mV)	45.30

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 (HOLD)Table 3+ (21)(HL) Including HFPO-DA and PFHpA

Sample ID: CAP1220-LTW-05-120920

DuplicateID: -

QA/QC: -

**WEATHER CONDITIONS**

Temperature (F):	52.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	3

## RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PIW-1D

Well Diameter: 2 Inches

Samplers: JOEY VIDMAR|JOHNATHAN CAUDILL

Event: Monthly CAP

Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 27

Pump Loc: within screen

Method: Peristaltic Pump

Date: 12-10-2020

Time: 11:15

**WATER VOLUME CALCULATION**

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

Water Volume =	2.467
Initial Depth to Water (ft.):	16.32
Depth to Well Bottom (ft.):	31.74

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
11:35	16.37	320.00	1600.00	3.61	0.09	273.40	4.65	165.73	16.55	Clear	No	
11:40	16.37	320.00	1600.00	3.61	0.06	243.50	82.43	167.13	16.90	Clear	No	
11:45	16.34	200.00	1000.00	3.60	0.08	234.50	77.67	166.93	16.62	Clear	No	
11:50	16.33	200.00	1000.00	3.60	0.07	230.00	52.89	167.04	16.71	Clear	No	
11:55	16.33	200.00	1000.00	3.60	0.06	223.70	25.37	166.22	16.87	Clear	No	
12:00	16.33	200.00	1000.00	3.60	0.06	216.60	16.88	165.28	17.01	Clear	No	
12:05	16.33	200.00	1000.00	3.61	0.06	211.80	7.28	165.08	17.06	Clear	No	

**Sampling Data**

Zero HS:

Method: Low Flow

Date: 12-10-2020 Time: 12:10

Purge Start Time: 11:30

Total Volume Purged (mL): 8200

Field Filtered: No

**Field Parameters**

STABILIZED PARAMETERS	
pH	3.61
Spec. Cond. (µS/cm)	165.08
Turbidity (NTU)	7.28
Temp. (°C)	17.06
DO (mg/L)	0.06
ORP (mV)	211.80

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: CAP1220-PIW-1D-121020

Duplicate ID: -

QA/QC: -

ALL PARAMETERS ANALYZED
537 MOD (HOLD) Table 3+ (21)(HL) Including HFPO-DA and PFHpA

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

## RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PIW-1S

Well Diameter: 2 Inches

Samplers: JOEY VIDMAR|JOHNATHAN CAUDILL

Event: Monthly CAP

Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 20

Pump Loc: bottom of well

Method: Peristaltic Pump

Date: 12-10-2020

Time: 10:05

**WATER VOLUME CALCULATION**

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

Water Volume =	0.462
Initial Depth to Water (ft.):	19.07
Depth to Well Bottom (ft.):	21.96

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
10:25	19.17	150.00	750.00	4.69	0.81	241.60	5.54	207.42	15.62	Clear	No	
10:30	19.18	150.00	750.00	4.06	1.73	225.40	2.83	194.60	16.07	Clear	No	
10:35	19.18	150.00	750.00	4.08	1.60	264.30	1.74	203.19	16.22	Clear	No	
10:40	19.20	150.00	750.00	4.11	1.52	295.00	1.83	221.74	16.48	Clear	No	
10:45	19.20	150.00	750.00	4.02	1.40	281.90	1.82	235.81	16.43	Clear	No	
10:50	19.21	150.00	750.00	4.06	1.44	275.10	1.77	240.49	16.75	Clear	No	

**Sampling Data**

Zero HS:

Purge Start Time: 10:20

Method: Low Flow

Date: 12-10-2020 Time: 10:55

Total Volume Purged (mL): 4500

Field Filtered: No

**Field Parameters**

STABILIZED PARAMETERS	
pH	4.06
Spec. Cond. (µS/cm)	240.49
Turbidity (NTU)	1.77
Temp. (°C)	16.75
DO (mg/L)	1.44
ORP (mV)	275.10

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: CAP1220-PIW-1S-121020

Duplicate ID: -

QA/QC: -

ALL PARAMETERS ANALYZED
537 MOD (HOLD)   Table 3+ (21)(HL) Including HPFO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	55.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	3

## RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PIW-3D

Well Diameter: 2 Inches

Samplers: JAMES BRIGGS/JELANI GILL

Event: Monthly CAP

Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 24

Pump Loc: within screen

Method: Peristaltic Pump

Date: 12-11-2020

Time: 9:50

**WATER VOLUME CALCULATION**

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

Water Volume =	1.682
Initial Depth to Water (ft.):	16.30
Depth to Well Bottom (ft.):	26.81

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
10:10	16.59	240.00	1440.00	5.02	0.21	-186.50	93.20	102.46	16.28	Clear	No	
10:15	16.62	240.00	1200.00	4.97	0.13	-160.90	1.58	96.71	16.31	Clear	No	
10:20	16.62	240.00	1200.00	4.82	0.08	-135.00	1.61	97.37	16.48	Clear	No	
10:25	16.62	240.00	1200.00	4.74	0.07	-154.70	1.57	94.02	16.65	Clear	No	
10:30	16.62	240.00	1200.00	4.67	0.06	-90.70	1.17	93.19	16.82	Clear	No	
10:35	16.62	240.00	1200.00	4.62	0.05	-74.40	3.46	92.81	16.82	Clear	No	
10:40	16.62	240.00	1200.00	4.59	0.05	-74.20	2.21	92.71	17.03	Clear	No	
10:45	16.62	240.00	1200.00	4.60	0.05	-75.70	0.60	92.67	16.92	Clear	No	

**Sampling Data**

Zero HS:

Method: Low Flow

Date: 12-11-2020 Time: 10:50

Purge Start Time: 10:04

Field Filtered: No

Total Volume Purged (mL): 9840.00

**Field Parameters**

STABILIZED PARAMETERS	
pH	4.60
Spec. Cond. (µS/cm)	92.67
Turbidity (NTU)	0.60
Temp. (°C)	16.92
DO (mg/L)	0.05
ORP (mV)	-75.70

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: CAP1220-PIW-3D-121120

Duplicate ID: -

QA/QC: -

ALL PARAMETERS ANALYZED
537 MOD (HOLD) Table 3+ (21)(HL) Including HPFO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	50.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	2

## RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PIW-7D

Well Diameter: 2 Inches

Samplers: JOHNATHAN CAUDILL Jelani Gill

Event: Monthly CAP

Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 33

Pump Loc: within screen

Method: Peristaltic Pump

Date: 12-08-2020

Time: 13:32

**WATER VOLUME CALCULATION**

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

Water Volume =	5.069
Initial Depth to Water (ft.):	5.39
Depth to Well Bottom (ft.):	37.07

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
13:40	5.41	300.00	600.00	4.50	0.12	-47.90	54.44	67.29	15.25	Clear	No	Turbidity for the Insitu Aqua Troll might not have been calibrated properly before sampling. Turbidity was recalibrated and it was measured again for the samples affected. There was minimum difference in the two turbidity values.
13:45	5.41	300.00	1500.00	4.43	0.08	-45.60	19.97	69.28	15.00	Clear	No	
13:50	5.41	300.00	1500.00	4.40	0.07	-40.30	15.10	68.34	14.82	Clear	No	
13:55	5.41	300.00	1500.00	4.42	0.06	-37.70	9.55	68.75	14.99	Clear	No	
14:00	5.41	300.00	1500.00	4.40	0.06	-34.90	7.42	70.24	14.99	Clear	No	
14:05	5.41	300.00	1500.00	4.41	0.06	-36.50	5.40	72.05	15.14	Clear	No	

**Sampling Data**

Zero HS:

Method: Low Flow

Field Filtered: No

Date: 12-08-2020 Time: 14:10

Purge Start Time: 13:38

Total Volume Purged (mL): 8100.00

**Field Parameters**

STABILIZED PARAMETERS	
pH	4.41
Spec. Cond.(µS/cm)	72.05
Turbidity (NTU)	5.40
Temp.(°C)	15.14
DO (mg/L)	0.06
ORP (mV)	-36.50

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 (HOLD)Table 3+ (21)(HL) Including HPFO-DA and PFHpA

Sample ID: CAP1220-PIW-7D-120820

DuplicateID: -

QA/QC: -

**WEATHER CONDITIONS**

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



## RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PIW-7S

Well Diameter: 2 Inches

Samplers: JOHNATHAN CAUDILL Jelani Gill

Event: Monthly CAP

Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 13

Pump Loc: within screen

Method: Peristaltic Pump

Date: 12-08-2020

Time: 11:32

**WATER VOLUME CALCULATION**

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

Water Volume =	2.819	
Initial Depth to Water (ft.):	5.18	Depth to Well Bottom (ft.): 22.80

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
11:45	5.56	250.00	2250.00	3.85	0.21	377.60	74.25	117.79	15.52	Clear	No	Turbidity for the Insitu Aqua Troll might not have been calibrated properly before sampling. Turbidity was recalibrated and it was measured again for the samples affected. There was minimum difference in the two turbidity values.
11:50	5.58	250.00	1250.00	3.91	0.13	360.60	78.70	112.06	15.89	Clear	No	
11:55	5.59	250.00	1250.00	4.39	0.14	292.20	113.00	101.67	16.20	Clear	No	
12:00	5.60	220.00	1100.00	4.97	0.10	171.80	75.14	100.30	15.98	Clear	No	
12:05	5.60	220.00	1100.00	5.1	0.12	78.40	25.90	98.71	15.61	Clear	No	
12:10	5.60	220.00	1100.00	5.11	0.10	36.20	29.21	98.70	15.78	Clear	No	
12:15	5.60	220.00	1100.00	5.17	0.09	-9.10	19.49	98.65	16.08	Clear	No	
12:20	5.62	220.00	1100.00	5.22	0.09	-33.90	17.68	98.26	15.79	Clear	No	
12:25	5.62	220.00	1100.00	5.31	0.07	-51.30	10.83	98.67	15.62	Clear	No	
12:30	5.62	220.00	1100.00	5.38	0.06	-73.80	7.81	98.12	15.12	Clear	No	
12:35	5.62	220.00	1100.00	5.35	0.06	-79.40	5.48	98.50	15.54	Clear	No	
12:40	5.62	220.00	1100.00	5.38	0.06	-82.30	4.27	99.78	15.91	Clear	No	

**Sampling Data**

Zero HS:

Method: Low Flow

Date: 12-08-2020

Time: 12:45

Purge Start Time: 11:36

Total Volume Purged (mL): 14650.00

Field Filtered: No

**Field Parameters**

STABILIZED PARAMETERS	
pH	5.38
Spec. Cond. (µS/cm)	99.78
Turbidity (NTU)	4.27
Temp. (°C)	15.91
DO (mg/L)	0.06
ORP (mV)	-82.30

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 (HOLD)|Table 3+ (21)(HL) Including HPFO-DA and PFHpA

 Sample ID: CAP1220-PIW-7S-120820  
 DuplicateID: CAP1220-PIW-7S-120820-D  
 QA/QC: Dup|MS|Rep

**WEATHER CONDITIONS**

Temperature (F):	43.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	4

## RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PW-04

Well Diameter: 2 Inches

Samplers: ALISA YOUNG|BRANDON WEIDNER

Event: Monthly CAP

Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 30.8

Pump Loc: bottom of well

Method: Peristaltic Pump

Date: 12-08-2020

Time: 14:45

**WATER VOLUME CALCULATION**

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

Water Volume =	1.24
Initial Depth to Water (ft.):	23.05
Depth to Well Bottom (ft.):	30.80

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	24.55	300.00	1500.00	3.27	0.17	388.20	18.27	385.77	17.04	Slightly Cloudy	No	Turbidity for the Insitu Aqua Troll might not have been calibrated properly before sampling. Turbidity was recalibrated and it was measured again for the samples affected. There was minimum difference in the two turbidity values.
15:10	25.92	300.00	1500.00	3.29	0.10	395.00	4.93	366.02	16.79	Clear	No	
15:15	27.12	300.00	1500.00	3.30	0.08	397.50	5.17	358.44	16.81	Clear	No	

**Sampling Data**

Zero HS:

Purge Start Time: 15:00

Method: Low Flow

Date: 12-08-2020

Time: 15:25

Total Volume Purged (mL): 4500

Field Filtered: No

**Field Parameters**

STABILIZED PARAMETERS	
pH	3.30
Spec. Cond.(µS/cm)	358.44
Turbidity (NTU)	5.17
Temp.(°C)	16.81
DO (mg/L)	0.08
ORP (mV)	397.50

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: CAP1220-PW-04-120820  
 DuplicateID: -  
 QA/QC: -

ALL PARAMETERS ANALYZED
537 MOD (HOLD)Table 3+ (21)(HL) Including HFPO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	47.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	9

## RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PW-06

Well Diameter: 2 Inches

Samplers: ALISA YOUNG|BRANDON WEIDNER

Event: Monthly CAP

Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 24

Pump Loc: within screen

Method: Peristaltic Pump

Date: 12-08-2020

Time: 11:15

**WATER VOLUME CALCULATION**

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

Water Volume =	2.29
Initial Depth to Water (ft.):	18.53
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			
11:50	19.75	290.00	1450.00	4.72	2.84	73.90	6.10	44.37	15.59	Cloudy	No	Turbidity for the Insitu Aqua Troll might not have been calibrated properly before sampling. Turbidity was recalibrated and it was measured again for the samples affected. There was minimum difference in the two turbidity values.
11:55	19.86	290.00	1450.00	4.65	3.53	84.90	3.47	45.17	15.99	Clear	No	
12:00	19.91	290.00	1450.00	4.57	2.52	88.10	1.05	46.90	15.94	Clear	No	
12:05	19.96	290.00	1450.00	4.58	2.26	80.40	0.58	47.31	15.95	Clear	No	
12:10	20.02	290.00	1450.00	4.49	2.08	101.40	0.95	51.33	16.05	Clear	No	
12:15	20.09	290.00	1450.00	4.55	2.16	98.70	0.19	49.05	16.20	Clear	No	
12:20	20.14	290.00	1450.00	4.51	2.41	98.50	0.30	49.75	16.03	Clear	No	
12:25	20.16	290.00	1450.00	4.54	2.30	86.00	0.68	48.01	16.36	Clear	No	
12:30	20.19	290.00	1450.00	4.54	2.38	76.00	0.01	48.65	16.32	Clear	No	
12:35	20.20	290.00	1450.00	4.55	2.42	70.10	0.21	48.85	16.48	Clear	No	
12:40	20.20	290.00	1450.00	4.59	2.45	66.00	0.24	48.27	16.38	Clear	No	
12:45	20.20	290.00	1450.00	4.58	2.55	64.00	0.03	48.71	16.46	Clear	No	

**Sampling Data**

Zero HS:

Method: Low Flow

Date: 12-08-2020

Time: 12:50

Purge Start Time:

11:45

Field Filtered: No

Total Volume Purged (mL):

17400

**Field Parameters**

STABILIZED PARAMETERS	
pH	4.58
Spec. Cond. (µS/cm)	48.71
Turbidity (NTU)	0.03
Temp. (°C)	16.46
DO (mg/L)	2.55
ORP (mV)	64.00

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)

**ALL PARAMETERS ANALYZED**

537 MOD (HOLD)|Table 3+ (21)(HL) Including HPFO-DA and PFHpA

Sample ID: CAP1220-PW-06-120820

DuplicateID: -

QA/QC: -

**WEATHER CONDITIONS**

Temperature (F):	43.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	8

## RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PW-07

Well Diameter: 2 Inches

Samplers: CHRIS MCGINNESS JOEY VIDMAR

Event: Monthly CAP

Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 33

Pump Loc: within screen

Method: Peristaltic Pump

Date: 12-09-2020

Time: 12:50

**WATER VOLUME CALCULATION**

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

Water Volume =	1.981
Initial Depth to Water (ft.):	29.47
Depth to Well Bottom (ft.):	41.85

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
13:25	29.90	200.00	3000.00	5.03	7.03	180.90	0.00	36.05	18.76	Clear	No	
13:30	29.90	200.00	1000.00	4.92	7.13	211.30	0.00	34.83	19.03	Clear	No	
13:35	29.90	200.00	1000.00	4.94	7.17	223.80	0.00	34.82	19.09	Clear	No	
13:40	29.90	200.00	1000.00	4.94	7.24	236.30	0.00	34.77	19.17	Clear	No	
13:45	29.90	200.00	1000.00	4.95	7.31	248.80	0.00	34.65	19.14	Clear	No	
13:50	29.90	200.00	1000.00	4.93	7.30	257.90	0.00	34.66	19.05	Clear	No	

**Sampling Data**

Zero HS:

Method: Low Flow

Date: 12-09-2020

Time: 13:55

Purge Start Time: 13:10

Total Volume Purged (mL): 8000.00

Field Filtered: No

**Field Parameters**

STABILIZED PARAMETERS	
pH	4.93
Spec. Cond.(µS/cm)	34.66
Turbidity (NTU)	0.00
Temp.(°C)	19.05
DO (mg/L)	7.30
ORP (mV)	257.90

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 (HOLD) Table 3+ (21)(HL) Including HFPO-DA and PFHpA

Sample ID: GAP1220-PW-07-120920

Duplicate ID: -

QA/QC: -

WEATHER CONDITIONS	
Temperature (F):	54.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	3

## RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PW-09

Well Diameter: 2 Inches

Samplers: JAMES BRIGGS|JOEY VIDMAR

Event: Monthly CAP

Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 49

Pump Loc: within screen

Method: Peristaltic Pump Date: 12-08-2020

Time: 12:35

**WATER VOLUME CALCULATION**

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

Water Volume =	5.314
Initial Depth to Water (ft.):	24.55
Depth to Well Bottom (ft.):	57.76

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
12:55	26.02	120.00	1800.00	10.92	2.01	81.40	5.42	238.36	13.50	Clear	No	Turbidity for the Insitu Aqua Troll might not have been calibrated properly before sampling. Turbidity was recalibrated and it was measured again for the samples affected. There was minimum difference in the two turbidity values.
13:00	26.23	120.00	600.00	10.91	2.04	84.60	3.42	238.18	13.28	Clear	No	
13:05	26.36	120.00	600.00	10.92	2.03	84.00	2.47	241.59	13.28	Clear	No	

**Sampling Data**

Zero HS:

Method: Low Flow

Date: 12-08-2020 Time: 13:05

Purge Start Time: 12:40

Field Filtered: No

Total Volume Purged (mL): 3000

**Field Parameters**

STABILIZED PARAMETERS	
pH	10.92
Spec. Cond. (µS/cm)	241.59
Turbidity (NTU)	2.47
Temp. (°C)	13.28
DO (mg/L)	2.03
ORP (mV)	84.00

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: CAP1220-PW-09-120820  
 Duplicate ID: -  
 QA/QC: -

ALL PARAMETERS ANALYZED
537 MOD (HOLD) Table 3+ (21)(HL) Including HFPO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	44.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	3

## RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PW-11

Well Diameter: 2 Inches

Samplers: MEGAN JUNOD

Event: Monthly CAP

Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: -

Pump Loc: -

Method: -

Date: 12-22-2020

Time: 15:30

**WATER VOLUME CALCULATION**

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

Water Volume =	-
Initial Depth to Water (ft.):	-
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	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	No field team visited the well and it was not sampled. This was requested by Geosyntec because the well is apart of the Black Creek Aquifer Pumping System.

**Sampling Data**

Zero HS: -

Method: -

Field Filtered: -

Date: -

Time: -

Purge Start Time: -

Total Volume Purged (mL): -

**Field Parameters**

STABILIZED PARAMETERS	
pH	-
Spec. Cond.(µS/cm)	-
Turbidity (NTU)	-
Temp.(°C)	-
DO (mg/L)	-
ORP (mV)	-

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)

Sample ID: -

Duplicate ID: -

QA/QC: -

ALL PARAMETERS ANALYZED
Well was not sampled; No parameters analyzed.

WEATHER CONDITIONS	
Temperature (F):	-
Sky:	-
Precipitation:	-
Wind (mph)	-

## RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PZ-22

Well Diameter: 0.75 Inches

Samplers: ALISA YOUNGJELANI GILL

Event: Monthly CAP

Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 25

Pump Loc: above screen

Method: Peristaltic Pump

Date: 12-09-2020

Time: 14:40

**WATER VOLUME CALCULATION**

= (Total Depth of Well - Depth To Water ) x Casing Volume per Foot			
Water Volume =	0.392		
Initial Depth to Water (ft.):	7.2	Depth to Well Bottom (ft.):	50.78

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			
15:10	7.20	250.00	1500.00	4.50	0.16	65.10	179.33	101.05	15.30	Clear	No	
15:15	7.20	250.00	1250.00	4.52	0.11	56.80	112.27	99.76	15.42	Clear	No	
15:20	7.20	250.00	1250.00	4.50	0.08	50.20	48.72	99.36	15.49	Clear	No	
15:25	7.20	250.00	1250.00	4.50	0.07	45.40	19.91	99.17	15.36	Clear	No	
15:29	7.20	250.00	1000.00	4.49	0.06	42.50	7.21	99.03	15.20	Clear	No	
15:35	7.20	250.00	1500.00	4.49	0.05	39.50	3.44	98.75	15.29	Clear	No	
15:40	7.20	250.00	1250.00	4.48	0.05	37.90	2.06	98.72	15.18	Clear	No	
15:45	7.20	250.00	1250.00	4.47	0.05	36.30	3.29	98.39	15.34	Clear	No	

**Sampling Data**

Zero HS:

Method: Low Flow

Field Filtered: No

Date: 12-09-2020

Time: 15:50

Purge Start Time: 15:04

Total Volume Purged (mL): 10250.00

**Field Parameters**

STABILIZED PARAMETERS	
pH	4.47
Spec. Cond.(µS/cm)	98.39
Turbidity (NTU)	3.29
Temp.(°C)	15.34
DO (mg/L)	0.05
ORP (mV)	36.30

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: CAP1220-PZ-22-120920

DuplicateID: -

QA/QC: -

ALL PARAMETERS ANALYZED
537 MOD (HOLD)Table 3+ (21)(HL) Including HPFO-DA and PFHpA

WEATHER CONDITIONS	
Temperature (F):	52.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

### RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville Well ID: SMW-10 Well Diameter: 2 Inches  
 Samplers: MARK GUERRA|MATT SCHEUER Event: Monthly CAP Project Manager: Tracy Ovbey

**Purging Data**  
 Pump Depth: 44  
 Pump Loc: within screen  
 Method: Peristaltic Pump Date: 12-09-2020 Time: 12:50

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water ) x Casing Volume per Foot			
Water Volume =	3.211		
Initial Depth to Water (ft.):	28.93	Depth to Well Bottom (ft.):	49.0

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			
13:18	28.93	200.00	600.00	5.40	0.51	86.20	2.09	87.92	16.45	Clearish	Na	
13:23	28.93	200.00	1000.00	5.41	0.34	7.80	2.40	83.86	16.44	Clearish	Na	
13:28	28.93	200.00	1000.00	5.40	0.19	-38.20	5.67	82.23	16.53	Clearish	Na	
13:33	28.93	200.00	1000.00	5.39	0.16	-54.20	9.76	81.80	16.32	Clearish	Na	
13:38	28.93	200.00	1000.00	5.39	0.12	-68.70	6.65	81.20	16.53	Clearish	Na	
13:43	28.93	200.00	1000.00	5.38	0.11	-69.30	5.73	81.08	16.49	Clearish	Na	
13:48	28.93	200.00	1000.00	5.37	0.11	-70.00	5.42	80.53	16.36	Clearish	Na	

**Sampling Data**  
 Zero HS:  Purge Start Time: 13:15  
 Method: Low Flow Date: 12-09-2020 Time: 13:55 Total Volume Purged (mL): 6600.00  
 Field Filtered: No

**Field Parameters**

STABILIZED PARAMETERS	
pH	5.37
Spec. Cond. (µS/cm)	80.53
Turbidity (NTU)	5.42
Temp. (°C)	16.36
DO (mg/L)	0.11
ORP (mV)	-70.00

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 (HOLD)|Table 3+ (21)(HL) Including HFPO-DA and PFHpA

Sample ID: CAP1220-SMW-10-120920  
 DuplicateID: -  
 QA/QC: -

WEATHER CONDITIONS	
Temperature (F):	52.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	11



## RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: SMW-11

Well Diameter: 2 Inches

Samplers: JAMES BRIGGS JOEY VIDMAR

Event: Monthly CAP

Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 18

Pump Loc: within screen

Method: Peristaltic Pump

Date: 12-08-2020

Time: 11:45

**WATER VOLUME CALCULATION**

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

Water Volume =	2.144
Initial Depth to Water (ft.):	12.43
Depth to Well Bottom (ft.):	25.83

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			
12:05	12.52	300.00	1500.00	3.94	4.82	128.70	0.11	45.29	16.70	Clear	No	Turbidity for the Insitu Aqua Troll might not have been calibrated properly before sampling. Turbidity was recalibrated and it was measured again for the samples affected. There was minimum difference in the two turbidity values.
12:10	12.52	300.00	1500.00	3.95	4.85	136.10	0.00	44.21	16.97	Clear	No	
12:15	12.52	300.00	1500.00	4.01	4.90	140.90	0.00	43.99	16.60	Clear	No	

**Sampling Data**

Zero HS:

Purge Start Time: 12:00

Method: Low Flow

Date: 12-08-2020

Time: 12:20

Total Volume Purged (mL): 4500

Field Filtered: No

**Field Parameters**

STABILIZED PARAMETERS	
pH	4.01
Spec. Cond. (µS/cm)	43.99
Turbidity (NTU)	0.00
Temp. (°C)	16.60
DO (mg/L)	4.90
ORP (mV)	140.90

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)

**ALL PARAMETERS ANALYZED**

537 MOD (HOLD) Table 3+ (21)(HL) Including HFPO-DA and PFHpA

Sample ID:	CAP1220-SMW-11-120820
Duplicate ID:	-
QA/QC:	-

**WEATHER CONDITIONS**

Temperature (F):	43.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	3

## RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: SMW-12

Well Diameter: 2 Inches

Samplers: MARK GUERRA|MATT SCHEUER

Event: Monthly CAP

Project Manager: Tracy Ovbey

**Purging Data**

Pump Depth: 93

Pump Loc: within screen

Method: Double valve pump

Date: 12-09-2020

Time: 14:14

**WATER VOLUME CALCULATION**

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

Water Volume =	2.49	
Initial Depth to Water (ft.):	82.44	Depth to Well Bottom (ft.): 98.0

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			
15:20	82.44	300.00	1500.00	5.01	0.66	42.80	0.14	0.07	15.35	Clearish	Na	Values for specific conductivity were very low. It was observed that the Insitu Aqua Troll was placed at an incorrect angle due to the vehicle being parked at an off angle. Once the angle on the Insitu was adjusted, several readings were taken to ensure stability of specific conductivity.
15:25	82.44	300.00	1500.00	4.73	3.59	28.10	1.90	0.07	15.16	Clearish	Na	
15:30	82.44	300.00	1500.00	4.49	0.74	29.20	1.02	0.07	15.35	Clearish	Na	
15:35	82.44	300.00	1500.00	4.58	0.37	29.20	0.80	0.07	15.56	Clearish	Na	
15:40	82.44	300.00	1500.00	4.10	0.87	21.70	0.28	0.07	15.59	Clearish	Na	
15:45	82.44	300.00	1500.00	4.06	0.58	3.90	0.32	0.07	15.65	Clearish	Na	
15:50	82.44	300.00	1500.00	4.00	0.69	-6.30	0.19	0.07	15.68	Clearish	Na	
15:55	82.44	300.00	1500.00	3.87	0.99	-11.20	0.18	0.07	15.73	Clearish	Na	
16:00	82.40	300.00	1500.00	3.86	0.99	-15.00	0.19	0.07	15.81	Clearish	Na	
16:05	82.44	300.00	1500.00	3.68	0.89	-17.40	0.12	232.12	16.64	Clearish	Na	
16:10	82.44	300.00	1500.00	3.67	0.85	-19.40	0.11	233.68	16.71	Clearish	Na	
16:15	82.44	300.00	1500.00	3.67	0.88	-19.80	0.10	233.75	16.55	Clearish	Na	
16:20	82.44	300.00	1500.00	3.68	0.89	-18.80	0.13	233.19	16.59	Clearish	Na	

**Sampling Data**

Zero HS:

Method: Low Flow

Date: 12-09-2020

Time: 16:25

Purge Start Time:

15:15

Total Volume Purged (mL):

19500

Field Filtered: No

**Field Parameters**

STABILIZED PARAMETERS	
pH	3.68
Spec. Cond. (µS/cm)	233.19
Turbidity (NTU)	0.13
Temp. (°C)	16.59
DO (mg/L)	0.89
ORP (mV)	-18.80

Screen Interval:

88 to 98

**SAMPLE SET**

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

**ALL PARAMETERS ANALYZED**

537 MOD (HOLD)|Table 3+ (21)(HL) Including HFPO-DA and PFHpA

Sample ID: CAP1220-SMW-12-120920

Duplicate ID: -

QA/QC: -

**WEATHER CONDITIONS**

Temperature (F):	53.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	11

# APPENDIX F

## Data Review Narratives and Laboratory Reports

**APPENDIX F****DATA REVIEW NARRATIVES AND LABORATORY REPORTS**

This appendix provides data review narratives are included in this appendix. Due to file size limits, analytical laboratory reports will be provided separately.

**Reanalyzed Samples**

Analysis of the samples from CFR-TARHEEL collected on November 24, 2020 (CFR-TARHEEL-24-112420) and November 26, 2020 (CFR-TARHEEL-24-112620) provided initial results that were significantly different from prior data (SDG 320-67335-1). The sample from November 24, 2020 was non-detect for HFPO-DA while the sample from November 26, 2020 was the highest result for HFPO-DA observed in 2020 (see Table 7 in the main section of the report). Further examination of the samples indicated that they contained a layer of sediment in the sample bottle. In addition, the sample from November 26, 2020 had a yellow color. These heterogeneities could lead to inconsistent results if, for example, different amounts of sediment were in the subsamples taken for analysis from the samples. The retained samples were re-extracted and re-analyzed in March 2021 and these second results were used in the mass loading calculations (SDG 320-67335-2).

Analysis of the sample from CFR-MILE-76 collected on December 15, 2020 provided a PMPA result (23 ng/L) that was close to the reporting limit (20 ng/L) (SDG 320-68082-1). The retained sample was re-analyzed using the Table 6 method, which provides a lower reporting limit (2 ng/L) for PMPA and therefore more reliable results for low concentration samples. This second PMPA result (6.3 ng/L) was used in the mass loading calculations (SDG 320-68082-3).

## **ADQM Data Review**

**Site: Fayetteville**

**Project: CAP SW Sampling 12/20**

**Project Reviewer: Michael Aucoin**

**Sampling Date(s): December 15 – 16, 2020**

## Analytical Protocol

Laboratory	Method	Parameters
TestAmerica - Sacramento	537 Modified	PFAS <sup>(1)</sup>
TestAmerica - Sacramento	Cl. Spec. Table 3 Compound SOP	Table 3+ compounds

<sup>1</sup> Perfluoroalkylsubstances, a list of 34 compounds; HFPO-DA and PFHpA were analyzed by Table 3+.

## ADQM Data Review Checklist

Item	Description	Yes	No*	DVM Narrative Report	Laboratory Report	Exception Report (ER) #
A	Did samples meet method acceptability requirements upon receipt at the laboratory (i.e., temperature, preservation, headspace, broken bottles)?	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 field team?	X				
D	Were all samples prepped/analyzed within method holding times?	X				
E	Were method QA/QC criteria met by the laboratory for all samples (i.e., blanks, LCSs/LCSDs, MSs/MSDs, PDSs, SDs, duplicates/replicates, surrogates, total/dissolved differences, dual column RPDs)		X	X		
F	Were all field/equipment/trip blanks (if collected) detected at levels not requiring sample data qualification?		X	X		
G	Were all reported results within the laboratory's calibration range?	X				
<b>ER#</b>	<b>Description</b>					
<p><b>Other QA/QC Items to Note:</b> Professional judgement was used to overwrite R qualifiers, indicating an unusable result, that were assigned by the DVM to non-detect results due to the preparation hold time that was exceeded by more than two times. The qualifier was updated to UJ, indicating an estimated reporting limit, because the target compounds are generally recognized to be stable for an extended time period.</p> <p>Due to uncertainty from observed matrix effects during the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE, a J-qualifier has been added to all positive results in the data set, if not already qualified by the DVM and even if there was no matrix spike analyzed for that particular sample, and the results should be considered to be estimated values.</p>						

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.

\* 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 12/20

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
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	NVHOS	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	PMPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Hfpo Dimer Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Hydrolyzed PSDA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	R-PSDCA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	PEPA	0.0020	UG/L	PQL		0.0020	UJ	Chemours(TB6)		3535_PFC_28D
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	PEPA	0.010	UG/L	PQL		0.010	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	PFO2HxA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	PFMOAA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

**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
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Hydro-PS Acid	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

## Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date	Sampled Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	Perfluoropentanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	Perfluorohexanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	PFOA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date	Sampled Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-BL-121620	12/16/2020	320-68085-4	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	Perfluoropentanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	Perfluorohexanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	PFOA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	9Cl-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	11Cl-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

## Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-EQBLK-ISCO-121620	12/16/2020	320-68085-3	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	Perfluoropentanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	Perfluorohexanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	PFOA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC



Validation Reason

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121520	12/15/2020	320-68085-1	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	Perfluoropentanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	Perfluorohexanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	PFOA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121620	12/16/2020	320-68085-2	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	2-(N-ethyl perfluoro-1-	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	octanesulfonamido)-ethanol Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	2-(N-methyl perfluoro-1-octanesulfonamido)-	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC

Validation Reason

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
			ethanol									
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	9Cl-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	11Cl-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

## Validation Reason

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC



Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC

Validation Reason

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC

Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorooctane Sulfonamide (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	N-ethyl perfluorooctane sulfonamidoacetic acid (TRIAL)	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC

Validation Reason

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	N-methyl perfluorooctane sulfonamidoacetic acid (TRIAL)	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorotetradecanoic acid (TRIAL)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorotridecanoic Acid (TRIAL)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	10:2 FTS (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	8:2 FTS (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	4:2 FTS (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	NEtPFOSAE (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	NMePFOSAE (trial)	0.0040	UG/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	6:2 FTS (trial)	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	DONA (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	F-53B Major (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	F-53B Minor (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	NEtPFOSA (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	NMePFOSA (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFDS (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFDoS (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFHpS (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFHxDA (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorononanesulfonic acid (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorooctadecanoic acid (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFPeS (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

**Validation Reason**

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorononanoic Acid (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorodecanoic Acid (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluoroundecanoic Acid (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorododecanoic Acid (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorobutanoic Acid (trial)	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason

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Field Sample ID	Date	Sampled Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	N-ethyl perfluorooctane	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
			sulfonamidoacetic acid									
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC



Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date	Sampled Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC

Validation Reason

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	9Cl-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	11Cl-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date	Sampled Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	N-methyl perfluorooctane sulfonamidoacetic	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
			acid									
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

**Validation Reason**

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	11Cl-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC



**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
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported non-detect result is an estimated value.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	Perfluorohexanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	PFOA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported non-detect result is an estimated value.

Field Sample ID	Date	Sampled Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-OLDOF-1-7-121520	12/15/2020	320-68080-2	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	2-(N-methyl perfluoro-1-octanesulfonamido)-	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported non-detect result is an estimated value.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
			ethanol									
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

**Validation Reason**

The preparation hold time for this sample was exceeded by a factor of 2. The reported non-detect result is an estimated value.

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC

**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
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	Hydrolyzed PSDA	0.0090	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	R-EVE	0.0042	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	Hydrolyzed PSDA	0.019	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	R-EVE	0.0063	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	NVHOS	0.0059	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

**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
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	Hydrolyzed PSDA	0.13	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	Hydrolyzed PSDA	1.4	UG/L	PQL		0.019	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	Hydrolyzed PSDA	3.2	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	Hydrolyzed PSDA	22	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	Hydrolyzed PSDA	21	UG/L	PQL		0.019	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	Hydrolyzed PSDA	0.0086	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	Hydrolyzed PSDA	0.010	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	Hydrolyzed PSDA	0.0073	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

**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
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Perfluoroheptanoic Acid	0.0042	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	R-PSDA	0.0045	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	PMPA	0.0063	UG/L	PQL		0.0020	J	Chemours(TB6)		3535_PFC_28D



Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	Perfluorobutane Sulfonic Acid	0.0037	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	Perfluorohexane Sulfonic Acid	0.0035	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	PFOA	0.0049	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	Perfluorohexanoic Acid	0.0056	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	Perfluoropentanoic Acid	0.0058	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	Perfluorobutane Sulfonic Acid	0.0039	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	Perfluorohexane Sulfonic Acid	0.0034	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	PFOA	0.0052	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	Perfluorohexanoic Acid	0.0048	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620-D	12/16/2020	320-68084-3	PFOS	0.0076	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	Perfluoropentanoic Acid	0.0056	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	PFOA	0.0039	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
RIVER-WATER-INTAKE-24-121620	12/16/2020	320-68084-2	PFOS	0.0080	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	Perfluorobutanoic Acid	0.0053	UG/L	PQL		0.0050	J	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	Perfluorobutane Sulfonic Acid	0.0041	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	Perfluorohexanoic Acid	0.0027	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-WC-1-22-121620	12/16/2020	320-68083-1	Perfluoropentanoic Acid	0.0057	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	Perfluorobutane Sulfonic Acid	0.0038	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	Perfluorohexane Sulfonic Acid	0.0052	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	PFOA	0.0059	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	Perfluorohexanoic Acid	0.0059	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	Perfluoropentanoic Acid	0.0063	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	Perfluorononanoic Acid	0.0024	UG/L	PQL		0.0020	J	537 Modified		3535_PFC

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	PFOA	0.012	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-TARHEEL-121620	12/16/2020	320-68080-1	PFOS	0.013	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	Perfluorobutanoic Acid	0.16	UG/L	PQL		0.0050	J	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	Perfluorohexanoic Acid	0.032	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	Perfluoropentanoic Acid	0.57	UG/L	PQL		0.0023	J	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	Perfluorohexane Sulfonic Acid	0.0027	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	Perfluorobutanoic Acid	0.49	UG/L	PQL		0.024	J	537 Modified		3535_PFC
CAP1220-SEEP-D-24-121620	12/16/2020	320-68084-1	PFOS	0.0021	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	PFOA	0.020	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	Perfluoropentanoic Acid	2.1	UG/L	PQL		0.0049	J	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	Perfluorohexanoic Acid	0.11	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	Perfluorononanoic Acid	0.011	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	Perfluorobutanoic Acid	0.48	UG/L	PQL		0.011	J	537 Modified		3535_PFC
CAP1220-SEEP-C-24-121620	12/16/2020	320-68083-4	PFOS	0.0094	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	PFOA	0.023	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	Perfluoropentanoic Acid	1.0	UG/L	PQL		0.0022	J	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	Perfluorohexanoic Acid	0.034	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	Perfluorononanoic Acid	0.016	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	Perfluorohexane Sulfonic Acid	0.0025	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	Perfluorobutanoic Acid	0.25	UG/L	PQL		0.0050	J	537 Modified		3535_PFC
CAP1220-SEEP-B-21-121620	12/16/2020	320-68083-3	PFOS	0.0033	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	PFOA	0.032	UG/L	PQL		0.0020	J	537 Modified		3535_PFC

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	Perfluoropentanoic Acid	0.55	UG/L	PQL		0.0022	J	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	Perfluorohexanoic Acid	0.035	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluoropentanoic Acid (trial)	0.0088	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorohexanoic Acid (trial)	0.0055	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorobutane Sulfonic Acid (trial)	0.0036	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorohexane Sulfonic Acid (trial)	0.0038	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-SEEP-A-24-121620	12/16/2020	320-68083-2	PFOS	0.0046	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFOS (trial)	0.0099	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFOA(trial)	0.0060	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorobutane Sulfonic Acid	0.0037	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorohexane Sulfonic Acid	0.0040	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFOA	0.0062	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluorohexanoic Acid	0.0055	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Perfluoropentanoic Acid	0.0089	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFOS	0.010	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	Perfluorononanoic Acid	0.0034	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	PFOA	0.018	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	Perfluorohexane Sulfonic Acid	0.0044	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	Perfluorobutanoic Acid	0.074	UG/L	PQL		0.0050	J	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	Perfluorohexanoic Acid	0.015	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-OLD-1-7-121520	12/15/2020	320-68080-2	Perfluoropentanoic Acid	0.0071	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	Perfluoropentanoic Acid	0.47	UG/L	PQL		0.0022	J	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	Perfluorobutanoic Acid	0.0083	UG/L	PQL		0.0050	J	537 Modified		3535_PFC

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date	Sampled Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	Perfluorobutane Sulfonic Acid	0.0023	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	PFOA	0.0030	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	Perfluorobutane Sulfonic Acid	0.0036	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	Perfluorohexanoic Acid	0.0025	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-LOCK-DAM-SEEP-121520	12/15/2020	320-68081-1	PFOS	0.051	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	Perfluorohexane Sulfonic Acid	0.0037	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	PFOA	0.0059	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	Perfluorohexanoic Acid	0.0055	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	Perfluoropentanoic Acid	0.0061	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Perfluorobutane Sulfonic Acid	0.0038	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Perfluorohexane Sulfonic Acid	0.0040	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-TARHEEL-121520	12/15/2020	320-68082-4	PFOS	0.014	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	PFOA	0.0061	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Perfluorohexanoic Acid	0.0057	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	Perfluoropentanoic Acid	0.0056	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-RM-76-121520	12/15/2020	320-68082-1	PFOS	0.012	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	Perfluorobutane Sulfonic Acid	0.0033	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	Perfluorohexane Sulfonic Acid	0.0037	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	PFOA	0.0061	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	Perfluoropentanoic Acid	0.0056	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	Perfluorohexanoic Acid	0.0046	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	Perfluorobutane Sulfonic Acid	0.0037	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-KINGS-121620	12/16/2020	320-68082-3	PFOS	0.011	UG/L	PQL		0.0020	J	537 Modified		3535_PFC

**Validation Reason**

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	Perfluorohexane Sulfonic Acid	0.0042	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	PFOA	0.0063	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	Perfluorohexanoic Acid	0.0055	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	Perfluoropentanoic Acid	0.0056	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-CFR-BLADEN-121520	12/15/2020	320-68082-2	PFOS	0.012	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-GBC-1-121520	12/15/2020	320-68084-4	Perfluoropentanoic Acid	0.0071	UG/L	PQL		0.0020	J	537 Modified		3535_PFC

**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
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Hydro-EVE Acid	0.0078	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Hydro-EVE Acid	0.0078	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Hydro-PS Acid	0.0063	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Hydro-PS Acid	0.0065	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFMOAA	0.026	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFMOAA	0.025	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	EVE Acid	0.18	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	EVE Acid	0.19	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFO2HxA	0.028	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFO2HxA	0.028	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFO3OA	0.0071	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFO3OA	0.0076	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFO5DA	0.0049	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PFO5DA	0.0043	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PS Acid	0.052	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PS Acid	0.055	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

**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
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PEPA	0.013	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PEPA	0.013	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Hydrolyzed PSDA	0.12	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	Hydrolyzed PSDA	0.12	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PMPA	0.061	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	PMPA	0.062	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	NVHOS	0.0035	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CAP1220-OUTFALL-002-24-121620	12/16/2020	320-68081-2	NVHOS	0.0035	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

## **ADQM Data Review**

**Site: Fayetteville**

**Project: CAP MW Sampling 12/20**

**Project Reviewer: Michael Aucoin**

**Sampling Date(s): December 8 – 11, 2020**

**December 22, 2020**



### Analytical Protocol

<b>Laboratory</b>	<b>Method</b>	<b>Parameters</b>
TestAmerica - Sacramento	537 Modified	PFAS <sup>(1)</sup>
TestAmerica - Sacramento	Cl. Spec. Table 3 Compound SOP	Table 3+ compounds

<sup>1</sup> Perfluoroalkylsubstances, a list of 34 compounds; HFPO-DA and PFHpA were analyzed by Table 3+.

## ADQM Data Review Checklist

Item	Description	Yes	No*	DVM Narrative Report	Laboratory Report	Exception Report (ER) #
A	Did samples meet method acceptability requirements upon receipt at the laboratory (i.e., temperature, preservation, headspace, broken bottles)?	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 field team?	X				
D	Were all samples prepped/analyzed within method holding times?	X				
E	Were method QA/QC criteria met by the laboratory for all samples (i.e., blanks, LCSs/LCSDs, MSs/MSDs, PDSs, SDs, duplicates/replicates, surrogates, total/dissolved differences, dual column RPDs)		X	X		
F	Were all field/equipment/trip blanks (if collected) detected at levels not requiring sample data qualification?		X	X		
G	Were all reported results within the laboratory's calibration range?	X				
<b>ER#</b>	<b>Description</b>					
<p><b>Other QA/QC Items to Note:</b> Professional judgement was used to overwrite R qualifiers, indicating an unusable result, that were assigned by the DVM to non-detect results due to the preparation hold time that was exceeded by more than two times. The qualifier was updated to UJ, indicating an estimated reporting limit, because the target compounds are generally recognized to be stable for an extended time period.</p> <p>Due to uncertainty from observed matrix effects during the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE, a J-qualifier has been added to all positive results in the data set, if not already qualified by the DVM and even if there was no matrix spike analyzed for that particular sample, and the results should be considered to be estimated values.</p>						

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.

\* 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 MW Sampling 12/20

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).

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PW-07-120920	12/09/2020	320-67844-6	PFOA	0.0026	UG/L	PQL		0.0020	B	537 Modified		3535_PFC

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
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	Perfluoropentanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	Perfluorohexanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	PFOA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC

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
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	9Cl-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	11Cl-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-122220	12/22/2020	320-68259-3	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	N-methyl perfluorooctane sulfonamidoacetic	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC

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
			acid									
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC



**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
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	PFOA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC

**Validation Reason**

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PW-07-120920	12/09/2020	320-67844-6	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	PFOA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	Perfluorohexanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	PFOA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	9Cl-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	11Cl-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PW-07-120920	12/09/2020	320-67844-6	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	9Cl-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	11Cl-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	Perfluoropentanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC

Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	Perfluorohexanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	PFOA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	11Cl-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-10-120920	12/09/2020	320-67844-1	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	9Cl-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	11Cl-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC



Validation Reason

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	Perfluoropentanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	Perfluorohexanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	PFOA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC

Validation Reason

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Field Sample ID	Date	Sampled Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	9Cl-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	11Cl-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120820	12/08/2020	320-67773-3	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	N-methyl perfluorooctane sulfonamidoacetic	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC

Validation Reason

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	acid									
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	Perfluoropentanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	Perfluorohexanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	PFOA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC

**Validation Reason**

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-120920	12/09/2020	320-67844-3	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	Perfluoropentanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	N-ethyl perfluorooctane	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
			sulfonamidoacetic acid									
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	Perfluorohexanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	PFOA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121020	12/10/2020	320-67866-2	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	Perfluoropentanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	Perfluorohexanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	PFOA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC

## Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-PP-121120	12/11/2020	320-67866-5	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	Perfluoropentanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	Perfluorohexanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC



**Validation Reason** The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	N-methyl perfluorooctane sulfonamidoacetic	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC

Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	acid 2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	PFOA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	10:2 Fluorotelomer sulfonate	0.0061	ug/L	PQL		0.0061	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	Perfluorooctadecanoic acid	0.0085	ug/L	PQL		0.0085	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0077	ug/L	PQL		0.0077	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	PFOS	0.0049	UG/L	PQL		0.0049	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	Perfluoroundecanoic Acid	0.010	UG/L	PQL		0.010	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	N-methyl perfluorooctane sulfonamidoacetic acid	0.011	UG/L	PQL		0.011	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.013	ug/L	PQL		0.013	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	Perfluorononanoic Acid	0.0025	UG/L	PQL		0.0025	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	Perfluorotetradecanoic Acid	0.0066	UG/L	PQL		0.0066	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0042	ug/L	PQL		0.0042	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	N-ethylperfluoro-1-octanesulfonamide	0.0079	UG/L	PQL		0.0079	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	Perfluorohexadecanoic acid (PFHxDA)	0.0081	ug/L	PQL		0.0081	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	Perfluorononanesulfonic acid	0.0034	ug/L	PQL		0.0034	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	Perfluorotridecanoic Acid	0.012	UG/L	PQL		0.012	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	Perfluorooctane Sulfonamide	0.0089	UG/L	PQL		0.0089	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	9Cl-PF3ONS	0.0022	ug/L	PQL		0.0022	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0022	ug/L	PQL		0.0022	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	11Cl-PF3OUdS	0.0029	ug/L	PQL		0.0029	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	Perfluorododecane sulfonic acid (PFDoS)	0.0088	ug/L	PQL		0.0088	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	DONA	0.0036	ug/L	PQL		0.0036	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	Perfluoropentane sulfonic acid (PFPeS)	0.0027	ug/L	PQL		0.0027	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	6:2 Fluorotelomer sulfonate	0.023	ug/L	PQL		0.023	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	N-ethyl perfluorooctane sulfonamidoacetic acid	0.012	UG/L	PQL		0.012	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	Perfluorododecanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	N-methyl perfluoro-1-octanesulfonamide	0.0039	ug/L	PQL		0.0039	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	PFOA	0.0077	UG/L	PQL		0.0077	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	Perfluorodecanoic Acid	0.0028	UG/L	PQL		0.0028	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	Perfluorodecane Sulfonic Acid	0.0029	UG/L	PQL		0.0029	UJ	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	Perfluorohexane Sulfonic Acid	0.0052	UG/L	PQL		0.0052	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	9Cl-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	11Cl-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
			ethanol									
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC



Validation Reason

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	2-(N-ethyl perfluoro-1-	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date	Sampled Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorotetradecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	9Cl-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	11Cl-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC

**Validation Reason**

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorononanoic Acid (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorodecanoic Acid (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluoroundecanoic Acid (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorododecanoic Acid (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorooctane Sulfonamide (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	N-ethyl perfluorooctane sulfonamidoacetic acid (TRIAL)	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	N-methyl perfluorooctane sulfonamidoacetic acid (TRIAL)	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorotetradecanoic acid (TRIAL)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorotridecanoic Acid (TRIAL)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	10:2 FTS (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	8:2 FTS (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	4:2 FTS (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	NEtPFOSAE (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	NMePFOSAE (trial)	0.0040	UG/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	6:2 FTS (trial)	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	DONA (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	F-53B Major (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	F-53B Minor (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	NEtPFOSA (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	NMePFOSA (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	PFDS (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	PFDoS (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	PFHpS (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	PFHxDA (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorononanesulfonic acid (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorooctadecanoic acid (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	PFPeS (trial)	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC

**Validation Reason** The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

**Validation Reason**

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PW-06-120820	12/08/2020	320-67773-1	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

**Validation Reason**

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PW-06-120820	12/08/2020	320-67773-1	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC



**Validation Reason** The preparation hold time for this sample was exceeded by a factor of 2. The reported non-detect result is an estimated value.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	9Cl-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	11Cl-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported non-detect result is an estimated value.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	Perfluoropentanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	Perfluorohexanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	PFOA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported non-detect result is an estimated value.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PW-09-120820	12/08/2020	320-67766-2	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	9Cl-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	11Cl-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-09-120820	12/08/2020	320-67766-2	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported non-detect result is an estimated value.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported non-detect result is an estimated value.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	9Cl-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	11Cl-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported non-detect result is an estimated value.

Field Sample ID	Date	Sampled Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PW-04-120820	12/08/2020	320-67766-4	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	N-methyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535_PFC

**Validation Reason**

The preparation hold time for this sample was exceeded by a factor of 2. The reported non-detect result is an estimated value.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PW-04-120820	12/08/2020	320-67766-4	N-ethyl perfluorooctane sulfonamidoacetic acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	Perfluorohexanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Site: Fayetteville

Sampling Program: CAP MW Sampling 12/20

Validation Options: LABSTATS

Validation Reason High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	R-PSDA	0.69	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep



Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PW-07-120920	12/09/2020	320-67844-6	Perfluoropentanoic Acid	0.012	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	Perfluorobutanoic Acid	0.012	UG/L	PQL		0.0050	J	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	Perfluorohexanoic Acid	0.0037	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	Perfluorobutanoic Acid	0.0053	UG/L	PQL		0.0050	J	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	PFOA	0.0033	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	Perfluoropentanoic Acid	0.016	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PW-04-120820	12/08/2020	320-67766-4	Perfluoropentanoic Acid	0.0062	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	Perfluorohexane Sulfonic Acid	0.0043	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	Perfluorobutanoic Acid	0.18	UG/L	PQL		0.0050	J	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	Perfluorobutane Sulfonic Acid	0.0030	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	PFOA	0.014	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	PFOA	0.014	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	Perfluorohexanoic Acid	0.026	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	Perfluoropentanoic Acid	0.54	UG/L	PQL		0.0024	J	537 Modified		3535_PFC
CAP1220-PIW-7S-120820-D	12/08/2020	320-67775-2	PFOS	0.0093	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorobutane Sulfonic Acid (trial)	0.0027	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorohexane Sulfonic Acid (trial)	0.0043	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorohexane Sulfonic Acid	0.0042	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorobutanoic Acid	0.18	UG/L	PQL		0.0050	J	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorobutane Sulfonic Acid	0.0027	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorohexanoic Acid	0.027	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluoropentanoic Acid	0.57	UG/L	PQL		0.048	J	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	PFOS (trial)	0.0081	UG/L	PQL		0.0020	J	537 Modified		3535_PFC

**Validation Reason**

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	PFOA(trial)	0.014	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorobutanoic Acid (trial)	0.18	UG/L	PQL		0.0050	J	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluoropentanoic Acid (trial)	0.57	UG/L	PQL		0.048	J	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	Perfluorohexanoic Acid (trial)	0.028	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-7S-120820	12/08/2020	320-67775-1	PFOS	0.0080	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	Perfluorobutanoic Acid	0.12	UG/L	PQL		0.0050	J	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	PFOA	0.0020	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	Perfluorononanoic Acid	0.0044	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	Perfluorohexanoic Acid	0.019	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	Perfluorohexane Sulfonic Acid	0.0044	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	Perfluorobutanoic Acid	0.067	UG/L	PQL		0.0050	J	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	Perfluorobutane Sulfonic Acid	0.0026	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-7D-120820	12/08/2020	320-67773-2	Perfluoropentanoic Acid	0.92	UG/L	PQL		0.0022	J	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	PFOA	0.034	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	Perfluorononanoic Acid	0.0048	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	Perfluorohexanoic Acid	0.018	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	Perfluoropentanoic Acid	0.12	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	Perfluorohexane Sulfonic Acid	0.0076	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	Perfluorobutanoic Acid	0.050	UG/L	PQL		0.0050	J	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	Perfluorobutane Sulfonic Acid	0.0028	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-3D-121120	12/11/2020	320-67866-3	PFOS	0.012	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	PFOA	0.023	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	PFOA	0.0073	UG/L	PQL		0.0020	J	537 Modified		3535_PFC

Validation Reason The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	Perfluorohexanoic Acid	0.012	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	Perfluoropentanoic Acid	0.084	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	Perfluorobutanoic Acid	0.063	UG/L	PQL		0.0050	J	537 Modified		3535_PFC
CAP1220-PIW-1S-121020	12/10/2020	320-67869-1	PFOS	0.031	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	Perfluorohexanoic Acid	0.0093	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	Perfluorobutanoic Acid	0.16	UG/L	PQL		0.022	J	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	Perfluorohexanoic Acid	0.045	UG/L	PQL		0.0053	J	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	Perfluorobutanoic Acid	0.41	UG/L	PQL		0.024	J	537 Modified		3535_PFC
CAP1220-PIW-1D-121020	12/10/2020	320-67869-2	Perfluoropentanoic Acid	0.14	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-LTW-05-120920	12/09/2020	320-67844-8	Perfluoropentanoic Acid	1.3	UG/L	PQL		0.0045	J	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	PFOA	0.0074	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	Perfluoropentanoic Acid	0.66	UG/L	PQL		0.0023	J	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	Perfluorohexanoic Acid	0.036	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	Perfluorobutanoic Acid	0.13	UG/L	PQL		0.0050	J	537 Modified		3535_PFC
CAP1220-LTW-03-122220	12/22/2020	320-68259-1	Perfluorohexanoic Acid	0.014	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-LTW-04-120820	12/08/2020	320-67766-1	Perfluoropentanoic Acid	1.4	UG/L	PQL		0.0048	J	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	Perfluorobutanoic Acid	0.050	UG/L	PQL		0.0050	J	537 Modified		3535_PFC
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	Perfluorohexanoic Acid	0.0071	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	Perfluorononanoic Acid	0.0028	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	PFOA	0.053	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	Perfluorohexane Sulfonic Acid	0.0079	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	Perfluorobutanoic Acid	0.14	UG/L	PQL		0.0050	J	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	Perfluorobutane Sulfonic Acid	0.0039	UG/L	PQL		0.0020	J	537 Modified		3535_PFC

**Validation Reason**

The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1220-LTW-02-121020	12/10/2020	320-67869-4	Perfluoropentanoic Acid	0.20	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	Perfluorohexanoic Acid	0.025	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	Perfluoropentanoic Acid	0.31	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-EQBLK-DV-120920	12/09/2020	320-67844-4	PFOA	0.0031	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-LTW-01-121020	12/10/2020	320-67869-3	PFOS	0.020	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	Perfluoropentanoic Acid	0.031	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	Perfluoropentanoic Acid	0.92	UG/L	PQL		0.0023	J	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	PFOA	0.058	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	Perfluorobutanoic Acid	0.024	UG/L	PQL		0.0050	J	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	Perfluorobutanoic Acid	0.017	UG/L	PQL		0.0050	J	537 Modified		3535_PFC
CAP1220-SMW-11-120820	12/08/2020	320-67766-3	Perfluorohexanoic Acid	0.0084	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	Perfluorobutanoic Acid	0.12	UG/L	PQL		0.0050	J	537 Modified		3535_PFC
CAP1220-SMW-12-120920	12/09/2020	320-67844-2	Perfluoropentanoic Acid	0.049	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PW-06-120820	12/08/2020	320-67773-1	PFOA	0.0062	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	Perfluorohexanoic Acid	0.0026	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PZ-22-120920	12/09/2020	320-67844-7	Perfluorohexanoic Acid	0.015	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
CAP1220-PW-07-120920	12/09/2020	320-67844-6	Perfluorobutanoic Acid	0.018	UG/L	PQL		0.0050	J	537 Modified		3535_PFC

## APPENDIX G

# Supporting Calculations – Onsite Groundwater Pathway

## APPENDIX G

### SUPPORTING CALCULATIONS – ONSITE GROUNDWATER PATHWAY

#### INTRODUCTION AND OBJECTIVE

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

#### APPROACH

The PFAS mass loading from onsite groundwater discharge was estimated as follows. Supporting data are provided in Table G1:

1. The Cape Fear River frontage was divided into 8 segments (Figure G1). Each segment includes one groundwater monitoring well that is considered representative of the Black Creek Aquifer and that is included in the Corrective Action Plan<sup>1</sup> (Geosyntec, 2019b).
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, 2019b):

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

where  $h$  is the Black Creek Aquifer thickness [ft];

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

$l$  is the segment length [ft].

The EVS model output for each segment is presented in Figure G2.

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

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 (Figure G3):

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

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 G4 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. The extraction wells used to determine the hydraulic conductivity for each segment are as follows, based on their locations relative to the segments (Figure G5):

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 Table 10 of this report. The monitoring well located in Segment 8 (PW-11) was inaccessible during the Q4 2020 monitoring event due to ongoing aquifer testing at this location, so it was not sampled. PFAS analytical results obtained from PW-11 during the Q3 2020 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 Table G2.
8. Passive flux meters deployed in select monitoring wells during the Pre-Design Investigation (Figure G5) were used to assess groundwater velocity and Table 3+ PFAS flux (in mass per distance per time) along potential groundwater discharge paths to Willis Creek and the Cape Fear River. PFM-derived PFAS flux was used to estimate mass flux in each segment as follows:

$$Q = lhjf$$

where  $Q$  is the mass flux [mg/sec];

$l$  is the segment length [ft];

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

$j$  is the PFAS flux determined from the PFMs [ $\mu\text{g}/\text{m}^2/\text{day}$ ]; and

$f$  is the conversion factor between meters and feet, days and seconds, and ng and mg.



The mass flux determined using the PFMs was used to compare against the mass flux determined by the method described in this appendix. Table G3 provides the PFAS flux and mass flux results determined using the PFMs. While the mass flux results from both methods are expected to be similar, variations exist in the source data for both methods such that some variation in the calculated mass flux may be expected. First, the PFMs were deployed in October 2020 while the groundwater samples were collected in December 2020. Second, the wells where PFMs were deployed do not necessarily correspond to the wells where groundwater samples were collected. The wells where PFMs were deployed are located in the vicinity of each segment. No PFMs were deployed in wells in Segment 5, so the average PFAS flux for segments 4 and 6 were used to calculate mass loading in this segment.

### **POTENTIAL FUTURE METHODOLOGY MODIFCATIONS**

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.

# TABLES

**TABLE G1  
ONSITE GROUNDWATER PATHWAY SUPPORTING DATA  
Chemours Fayetteville Works, North Carolina**

Segment	Well	Sample Date	Segment Length (ft)	Cross-sectional Area of Black Creek Aquifer <sup>1</sup> (ft <sup>2</sup> )	Average Thickness of Black Creek Aquifer (ft)	Lower Groundwater Contour Elevation Difference <sup>2</sup> (ft)	Horizontal Distance Between Contours (Lower Elevation Difference) <sup>2</sup> (ft)	Upper Groundwater Contour Elevation Difference <sup>2</sup> (ft)	Horizontal Distance Between Contours (Upper Elevation Difference) <sup>2</sup> (ft)	Hydraulic Gradient (Lower Elevation Difference) (ft/ft)	Hydraulic Gradient (Upper Elevation Difference) (ft/ft)	Hydraulic Conductivity <sup>3</sup> (ft/sec)	Total Attachment C <sup>4</sup>			
													Concentration <sup>6</sup> (ng/L)	Mass Loading Lower Bound (mg/sec)	Mass Loading Upper Bound (mg/sec)	PFM Mass Loading <sup>7</sup> (mg/sec)
1	PIW-1D	12/10/2020	1,148	13,380	11.7	10	264.6	20	542.6	0.038	0.037	1.71E-04	50,000	0.1222	0.1191	0.076
2	PIW-3D	12/11/2020	873	11,010	12.6	10	233.7	20	470.5	0.043	0.043	1.71E-04	43,000	0.0979	0.0972	0.056
3	LTW-02	12/10/2020	875	5,560	6.4	10	412.7	20	884.6	0.024	0.023	1.02E-04	56,000	0.0217	0.0203	0.083
4	LTW-03	12/22/2020	729	2,831	3.9	10	412.7	20	884.6	0.024	0.023	1.02E-04	250,000	0.0494	0.0461	0.034
5	PZ-22	12/9/2020	656	15,240	23.2	10	718.3	20	1,040.7	0.014	0.019	3.28E-04	210,000	0.4139	0.5714	0.196
6	PIW-7D	12/8/2020	524	15,960	30.5	10	718.3	20	1,040.7	0.014	0.019	3.28E-04	1,800	0.0037	0.0051	0.217
7	LTW-05	12/9/2020	887	17,220	19.4	10	918.8	20	1,228.6	0.011	0.016	1.28E-04	230,000	0.1562	0.2336	0.465
8	PW-11 <sup>8</sup>	7/23/2020	1,986	56,300	28.3	10	918.8	20	1,228.6	0.011	0.016	2.59E-04	180,000	0.8095	1.2108	0.536
<b>Total</b>													<b>1.67</b>	<b>2.30</b>	<b>1.66</b>	

**Notes**

- 1 - Cross sectional areas were determined using the three-dimensional hydrostratigraphic model of the Site, constructed using CTech's Earth Volumetric Studio (EVS) software (Figure G2)
- 2 - Vertical and horizontal distances for hydraulic gradient determined from groundwater level contour map for the December 2020 synoptic well gauging round (Figure G3).
- 3 - Hydraulic conductivity values are based on constant rate pumping test results from extraction wells identified in Figure G5.
- 4 - Attachment C does not include Perfluoroheptanoic acid (PFHpA).
- 5 - Total Table 3+ (17 compounds) does not include R-PSDA, Hydrolyzed PSDA, and R-EVE.
- 6 - Detailed PFAS Concentrations provided in Table 10.
- 7 - PFM Mass Loading determined using PFMs deployed in wells identified in Figure G5. Supporting PFM data is provided in Table G3.
- 8 - PW-11 was not sampled during the 4th quarter monitoring event; it was inaccessible during ongoing aquifer tests. PFAS analytical results reported in this table for PW-11 are from the 3rd quarter monitoring event.

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

**TABLE G1  
ONSITE GROUNDWATER PATHWAY SUPPORTING DATA  
Chemours Fayetteville Works, North Carolina**

Segment	Well	Sample Date	Segment Length (ft)	Cross-sectional Area of Black Creek Aquifer <sup>1</sup> (ft <sup>2</sup> )	Average Thickness of Black Creek Aquifer (ft)	Lower Groundwater Contour Elevation Difference <sup>2</sup> (ft)	Horizontal Distance Between Contours (Lower Elevation Difference) <sup>2</sup> (ft)	Upper Groundwater Contour Elevation Difference <sup>2</sup> (ft)	Horizontal Distance Between Contours (Upper Elevation Difference) <sup>2</sup> (ft)	Hydraulic Gradient (Lower Elevation Difference) (ft/ft)	Hydraulic Gradient (Upper Elevation Difference) (ft/ft)	Hydraulic Conductivity <sup>3</sup> (ft/sec)	Total Table 3+ (17 Compounds) <sup>5</sup>			
													Concentration <sup>6</sup> (ng/L)	Mass Loading Lower Bound (mg/sec)	Mass Loading Upper Bound (mg/sec)	PFM Mass Loading <sup>7</sup> (mg/sec)
1	PIW-1D	12/10/2020	1,148	13,380	11.7	10	264.6	20	542.6	0.038	0.037	1.71E-04	50,000	0.1222	0.1191	0.077
2	PIW-3D	12/11/2020	873	11,010	12.6	10	233.7	20	470.5	0.043	0.043	1.71E-04	43,000	0.0979	0.0972	0.057
3	LTW-02	12/10/2020	875	5,560	6.4	10	412.7	20	884.6	0.024	0.023	1.02E-04	57,000	0.0221	0.0206	0.084
4	LTW-03	12/22/2020	729	2,831	3.9	10	412.7	20	884.6	0.024	0.023	1.02E-04	250,000	0.0494	0.0461	0.035
5	PZ-22	12/9/2020	656	15,240	23.2	10	718.3	20	1,040.7	0.014	0.019	3.28E-04	220,000	0.4336	0.5986	0.201
6	PIW-7D	12/8/2020	524	15,960	30.5	10	718.3	20	1,040.7	0.014	0.019	3.28E-04	1,800	0.0037	0.0051	0.224
7	LTW-05	12/9/2020	887	17,220	19.4	10	918.8	20	1,228.6	0.011	0.016	1.28E-04	230,000	0.1562	0.2336	0.475
8	PW-11 <sup>8</sup>	7/23/2020	1,986	56,300	28.3	10	918.8	20	1,228.6	0.011	0.016	2.59E-04	180,000	0.8095	1.2108	0.546
<b>Total</b>													<b>1.69</b>	<b>2.33</b>	<b>1.70</b>	

**Notes**

- 1 - Cross sectional areas were determined using the three-dimensional hydrostratigraphic model of the Site, constructed using CTech's Earth Volumetric Studio (EVS) software (Figure G2)
- 2 - Vertical and horizontal distances for hydraulic gradient determined from groundwater level contour map for the December 2020 synoptic well gauging round (Figure G3).
- 3 - Hydraulic conductivity values are based on constant rate pumping test results from extraction wells identified in Figure G5.
- 4 - Attachment C does not include Perfluoroheptanoic acid (PFHpA).
- 5 - Total Table 3+ (17 compounds) does not include R-PSDA, Hydrolyzed PSDA, and R-EVE.
- 6 - Detailed PFAS Concentrations provided in Table 10.
- 7 - PFM Mass Loading determined using PFMs deployed in wells identified in Figure G5. Supporting PFM data is provided in Table G3.
- 8 - PW-11 was not sampled during the 4th quarter monitoring event; it was inaccessible during ongoing aquifer tests. PFAS analytical results reported in this table for PW-11 are from the 3rd quarter monitoring event.

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

**TABLE G1  
ONSITE GROUNDWATER PATHWAY SUPPORTING DATA  
Chemours Fayetteville Works, North Carolina**

Segment	Well	Sample Date	Segment Length (ft)	Cross-sectional Area of Black Creek Aquifer <sup>1</sup> (ft <sup>2</sup> )	Average Thickness of Black Creek Aquifer (ft)	Lower Groundwater Contour Elevation Difference <sup>2</sup> (ft)	Horizontal Distance Between Contours (Lower Elevation Difference) <sup>2</sup> (ft)	Upper Groundwater Contour Elevation Difference <sup>2</sup> (ft)	Horizontal Distance Between Contours (Upper Elevation Difference) <sup>2</sup> (ft)	Hydraulic Gradient (Lower Elevation Difference) (ft/ft)	Hydraulic Gradient (Upper Elevation Difference) (ft/ft)	Hydraulic Conductivity <sup>3</sup> (ft/sec)	Total Table 3+ (20 Compounds)			
													Concentration <sup>6</sup> (ng/L)	Mass Loading Lower Bound (mg/sec)	Mass Loading Upper Bound (mg/sec)	PFM Mass Loading <sup>7</sup> (mg/sec)
1	PIW-1D	12/10/2020	1,148	13,380	11.7	10	264.6	20	542.6	0.038	0.037	1.71E-04	51,000	0.1246	0.1215	0.080
2	PIW-3D	12/11/2020	873	11,010	12.6	10	233.7	20	470.5	0.043	0.043	1.71E-04	43,000	0.0979	0.0972	0.058
3	LTW-02	12/10/2020	875	5,560	6.4	10	412.7	20	884.6	0.024	0.023	1.02E-04	58,000	0.0225	0.0210	0.087
4	LTW-03	12/22/2020	729	2,831	3.9	10	412.7	20	884.6	0.024	0.023	1.02E-04	250,000	0.0494	0.0461	0.036
5	PZ-22	12/9/2020	656	15,240	23.2	10	718.3	20	1,040.7	0.014	0.019	3.28E-04	220,000	0.4336	0.5986	0.209
6	PIW-7D	12/8/2020	524	15,960	30.5	10	718.3	20	1,040.7	0.014	0.019	3.28E-04	1,900	0.0039	0.0054	0.235
7	LTW-05	12/9/2020	887	17,220	19.4	10	918.8	20	1,228.6	0.011	0.016	1.28E-04	230,000	0.1562	0.2336	0.486
8	PW-11 <sup>8</sup>	7/23/2020	1,986	56,300	28.3	10	918.8	20	1,228.6	0.011	0.016	2.59E-04	180,000	0.8095	1.2108	0.562
<b>Total</b>													<b>1.70</b>	<b>2.33</b>	<b>1.75</b>	

**Notes**

- 1 - Cross sectional areas were determined using the three-dimensional hydrostratigraphic model of the Site, constructed using CTech's Earth Volumetric Studio (EVS) software (Figure G2)
- 2 - Vertical and horizontal distances for hydraulic gradient determined from groundwater level contour map for the December 2020 synoptic well gauging round (Figure G3).
- 3 - Hydraulic conductivity values are based on constant rate pumping test results from extraction wells identified in Figure G5.
- 4 - Attachment C does not include Perfluoroheptanoic acid (PFHpA).
- 5 - Total Table 3+ (17 compounds) does not include R-PSDA, Hydrolyzed PSDA, and R-EVE.
- 6 - Detailed PFAS Concentrations provided in Table 10.
- 7 - PFM Mass Loading determined using PFMs deployed in wells identified in Figure G5. Supporting PFM data is provided in Table G3.
- 8 - PW-11 was not sampled during the 4th quarter monitoring event; it was inaccessible during ongoing aquifer tests. PFAS analytical results reported in this table for PW-11 are from the 3rd quarter monitoring event.

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

**TABLE G2**  
**ONSITE GROUNDWATER FLOW RATE**  
**Chemours Fayetteville Works, North Carolina**

Segment	Cross-sectional Area of Black Creek Aquifer <sup>1</sup> (ft <sup>2</sup> )	Hydraulic Gradient (Lower Elevation Difference) <sup>1,2</sup> (ft/ft)	Hydraulic Gradient (Upper Elevation Difference) <sup>1,2</sup> (ft/ft)	Hydraulic Conductivity (ft/sec) <sup>1</sup>	Flow Lower Bound (ft <sup>3</sup> /sec)	Flow Upper Bound (ft <sup>3</sup> /sec)	Flow Lower Bound (gal/day)	Flow Upper Bound (gal /day)
1	13,380	0.038	0.037	1.71E-04	8.63E-02	8.41E-02	55,760	54,379
2	11,010	0.043	0.043	1.71E-04	8.04E-02	7.99E-02	51,952	51,608
3	5,560	0.024	0.023	1.02E-04	1.37E-02	1.28E-02	8,856	8,264
4	2,831	0.024	0.023	1.02E-04	6.98E-03	6.51E-03	4,509	4,207
5	15,240	0.014	0.019	3.28E-04	6.96E-02	9.61E-02	44,990	62,103
6	15,960	0.014	0.019	3.28E-04	7.29E-02	1.01E-01	47,115	65,037
7	17,220	0.011	0.016	1.28E-04	2.40E-02	3.59E-02	15,499	23,183
8	56,300	0.011	0.016	2.59E-04	1.59E-01	2.38E-01	102,645	153,533
					<b>0.513</b>	<b>0.653</b>	<b>331,326</b>	<b>422,315</b>

**Notes**

1 - Supporting data for cross-sectional area, hydraulic gradient, and hydraulic conductivity provided in Table G1.

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

ft - feet

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

ft/sec - feet per second

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

gal/day - gallons per day

**TABLE G3  
PASSIVE FLUX METER RESULTS  
Chemours Fayetteville Works, North Carolina**

Segment	Well	Segment Length (ft)	Average Thickness of Black Creek Aquifer (ft)	Flux ( $\mu\text{g}/\text{m}^2/\text{day}$ )			Average Flux ( $\mu\text{g}/\text{m}^2/\text{day}$ )			Mass Loading (mg/sec)		
				Attachment C <sup>1</sup>	Total Table 3+ (17 compounds) <sup>2</sup>	Total Table 3+ (20 compounds)	Attachment C <sup>1</sup>	Total Table 3+ (17 compounds) <sup>2</sup>	Total Table 3+ (20 compounds)	Attachment C <sup>1</sup>	Total Table 3+ (17 compounds) <sup>2</sup>	Total Table 3+ (20 compounds)
1	PIW-1D	1,148	11.7	7,182	7,262	7,413	5,302	5,380	5,527	0.076	0.077	0.080
	PIW-15			3,422	3,497	3,640						
2	PIW-3D	873	12.6	9,212	9,306	9,477	4,747	4,794	4,879	0.056	0.057	0.058
	PIW-2D			282	282	282						
3	PIW-4D	875	11.7	1.2	1.2	1.4	13,804	14,075	14,469	0.151	0.154	0.159
	PW-10R			27,606	28,149	28,938						
4	PIW-6S	729	3.9	11,218	11,456	11,851	11,218	11,456	11,851	0.034	0.035	0.036
5	-- <sup>3</sup>	656	23.2	11,940	12,241	12,761	11,940	12,241	12,761	0.196	0.201	0.209
6	PIW-7D	524	30.5	12,663	13,026	13,670	12,663	13,026	13,670	0.217	0.224	0.235
7	PIW-8D	887	19.4	45,054	46,022	46,995	25,127	25,678	26,233	0.465	0.475	0.486
	PIW-9D			5,199	5,334	5,471						
8	PW-11	1,986	28.3	12,274	12,506	12,886	8,849	9,026	9,280	0.536	0.546	0.562
	PIW-10DR			5,423	5,547	5,675						

**Notes**

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

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

3 - No PFMs were installed in segment 5. Mass loading for this segment was calculated using the cross sectional area of segment 5 and the average PFM flux results from segments 4 and 6.

BCA - Black Creek Aquifer

PFM - passive flux meter

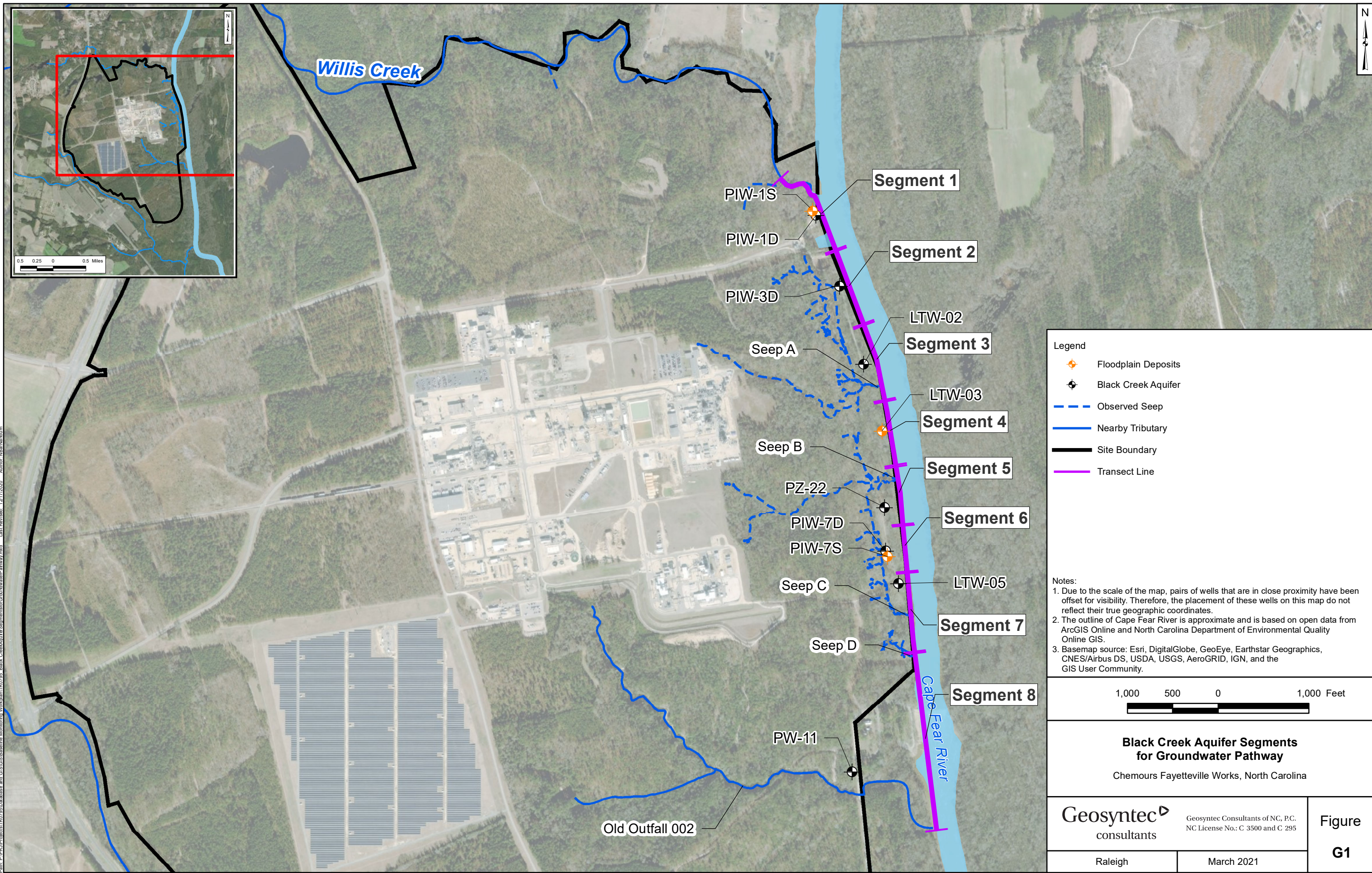
mg/sec - milligrams per second

m<sup>2</sup> - square meters

$\mu\text{g}/\text{m}^2/\text{day}$  - micrograms per square meter per day

# FIGURES





**Legend**

- Floodplain Deposits
- Black Creek Aquifer
- 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. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

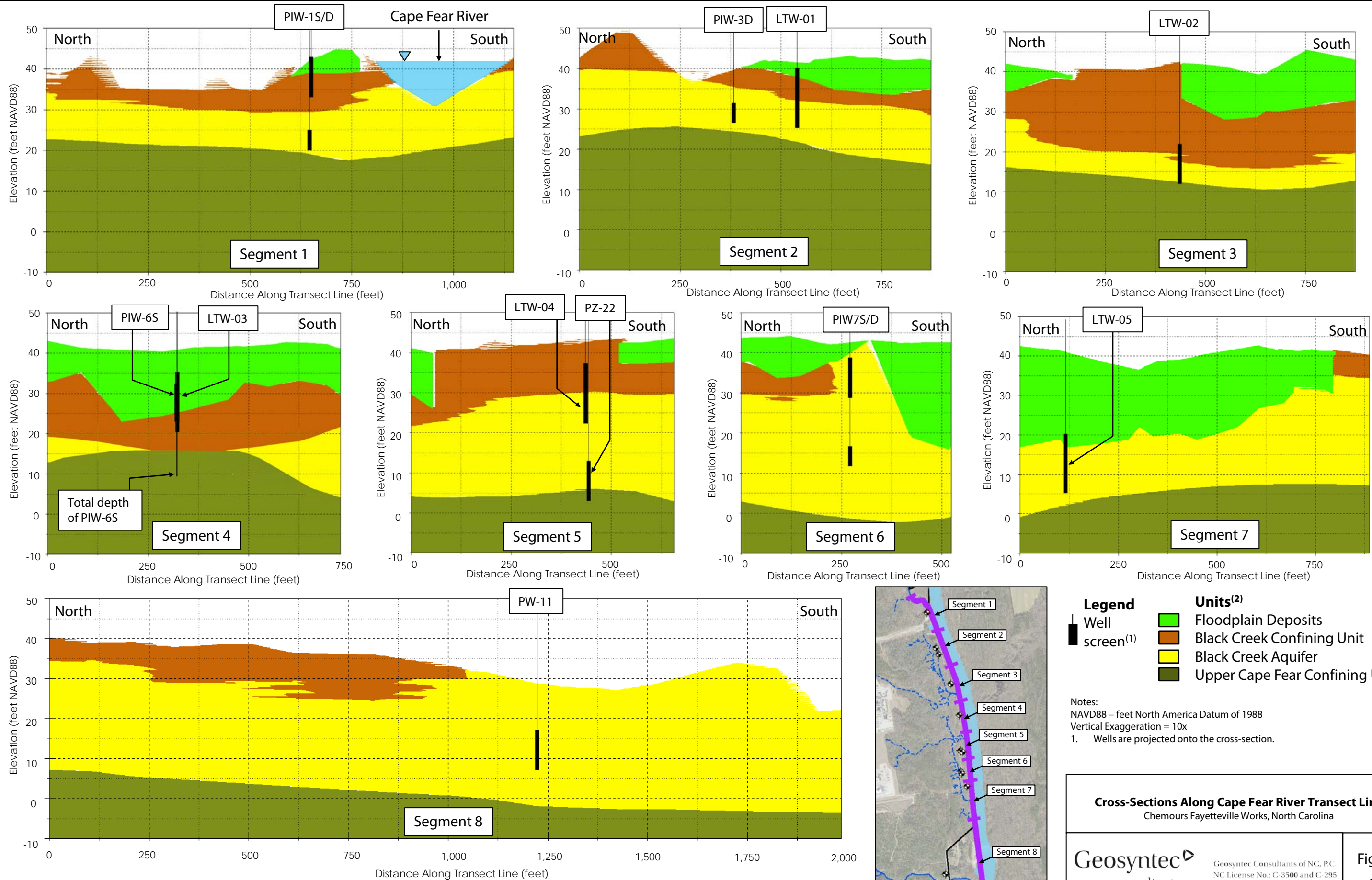


**Black Creek Aquifer Segments  
for Groundwater Pathway**  
Chemours Fayetteville Works, North Carolina

	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295	<b>Figure G1</b>
	Raleigh	

Path: P:\P\Projects\TR0725\Database and GIS\GIS\Baseline Monitor\Work\km\TR0725 - Black Creek Aquifer Segments\Groundwater Pathway.mxd Last Revised: 12/17/2020 Author: NB\N\shoum

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



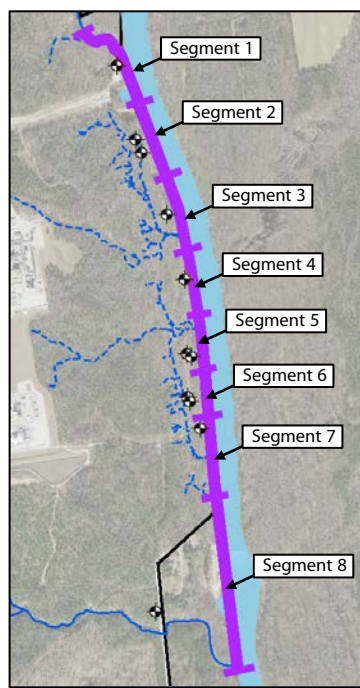
**Legend**

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

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

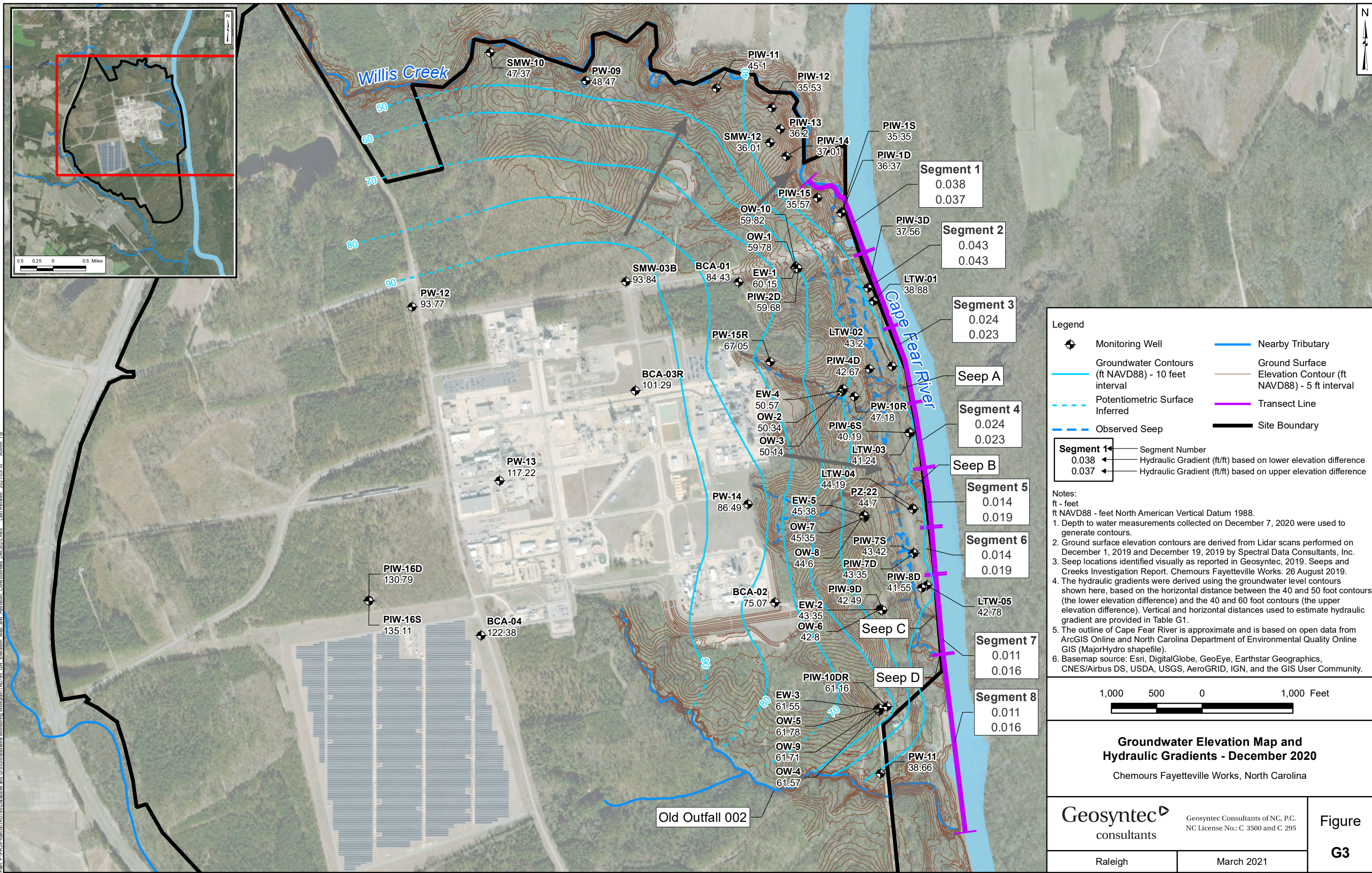
- Floodplain Deposits
- Black Creek Confining Unit
- Black Creek Aquifer
- Upper Cape Fear Confining Unit

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



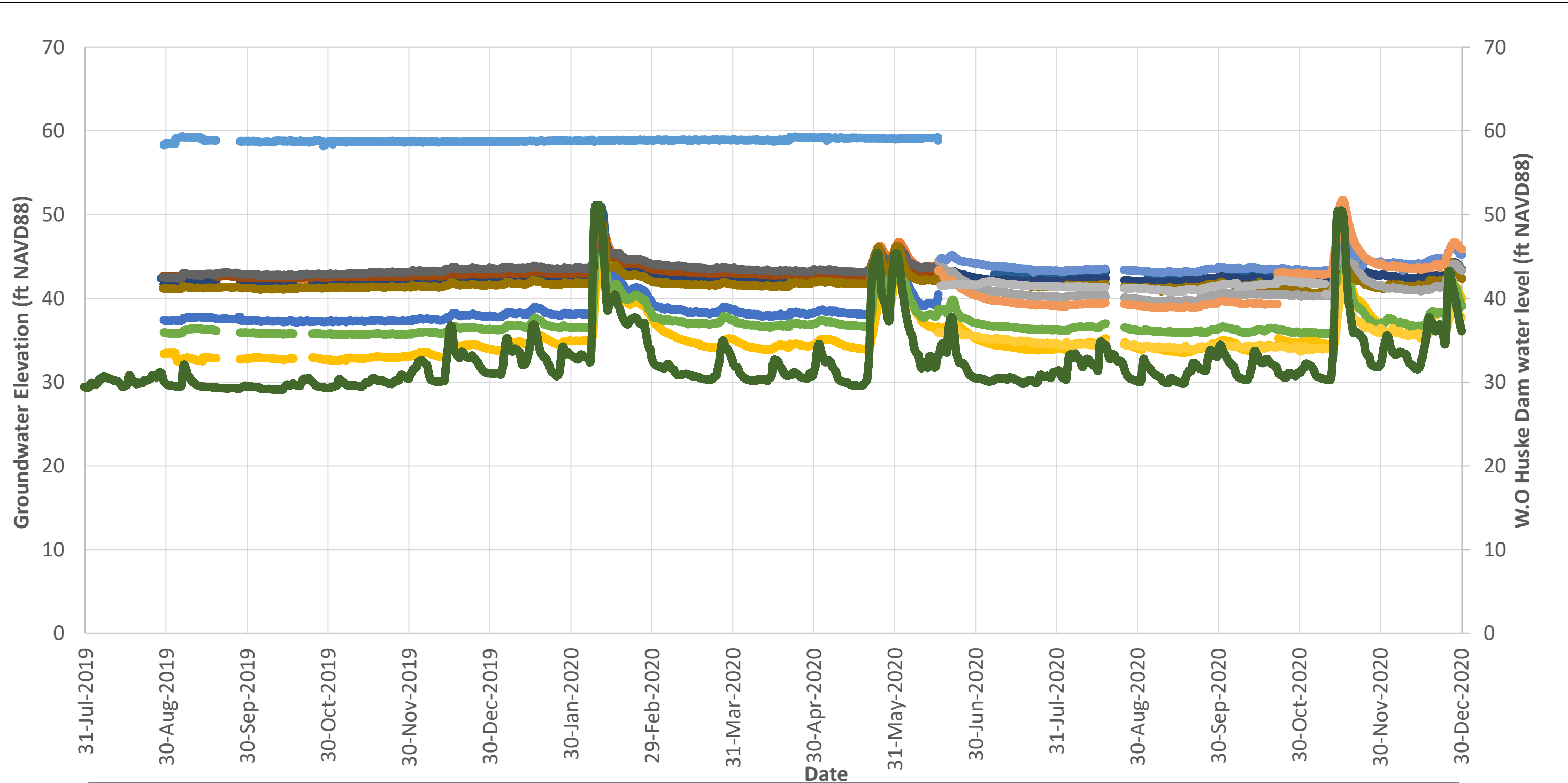
**Cross-Sections Along Cape Fear River Transect Line**  
 Chemours Fayetteville Works, North Carolina

<p style="font-size: small; margin-top: 5px;">Geosyntec Consultants of NC, P.C. NC License No.: C-3500 and C-295</p>	<p><b>Figure G2</b></p>
Raleigh	March 2021



Path: P:\P\Projects\TR0725\Database and GIS\GIS\Baseline Monitor\Work\dm178725\_GW\_Elevation\_Map\_and\_Hydraulic\_Gradients\_Dec2020.mxd Last Revised: 2021-03-10 Author: TJP  
 Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet Units in Foot US

https://projectlib. geosyntec.com/PIW/ConsentOrder/Shared Documents/34... File Quarterly Report/01 - Quarterly Report/2020 Q4/Report/Appendices/Appendix G - Onsite Groundwater Pathway Update/Figure 14...

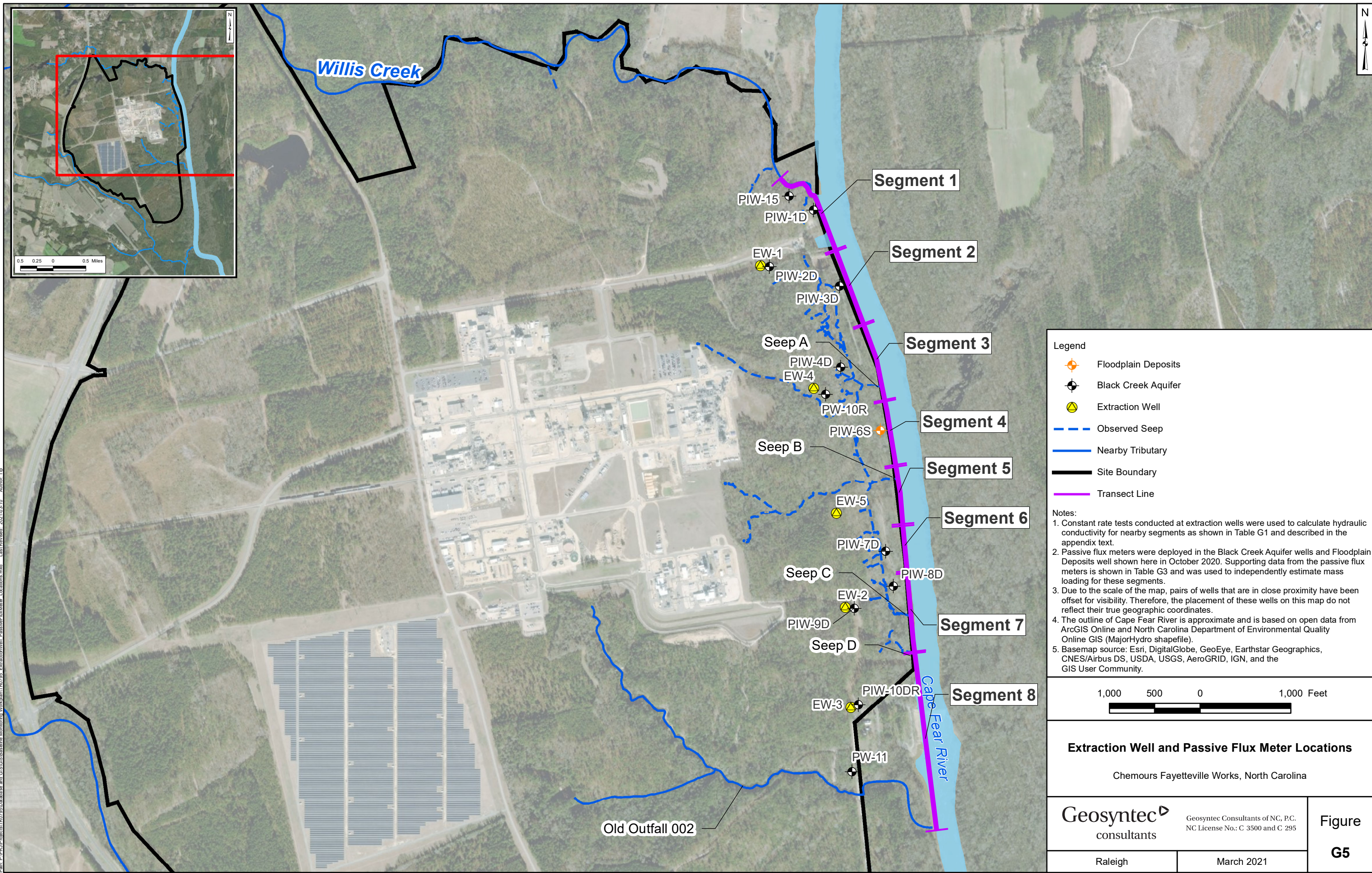


- LTW-01
- LTW-02
- LTW-05
- PIW-1D
- PIW-2D
- PIW-3D
- PIW-4D
- PIW-7D
- PIW-7S
- PIW-8D
- LTW-03
- LTW-04
- PIW-6S
- PW-11
- SMW-12
- W.O. Huske Dam

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

**Hydrograph for Select Onsite Groundwater Monitoring Wells and W.O Huske Dam**  
 Chemours Fayetteville Works, North Carolina

<b>Geosyntec</b> consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295	<b>Figure</b>  <b>G4</b>
Raleigh	March 2021	

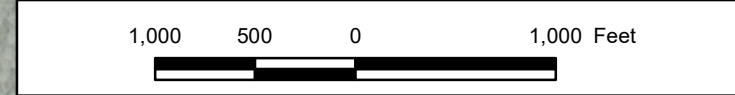


**Legend**

- ◆ Floodplain Deposits
- Black Creek Aquifer
- Extraction Well
- Observed Seep
- Nearby Tributary
- Site Boundary
- Transect Line

**Notes:**

1. Constant rate tests conducted at extraction wells were used to calculate hydraulic conductivity for nearby segments as shown in Table G1 and described in the appendix text.
2. Passive flux meters were deployed in the Black Creek Aquifer wells and Floodplain Deposits well shown here in October 2020. Supporting data from the passive flux meters is shown in Table G3 and was used to independently estimate mass loading for these segments.
3. 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.
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.



**Extraction Well and Passive Flux Meter Locations**  
Chemours Fayetteville Works, North Carolina

	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295	<b>Figure</b>  <b>G5</b>
Raleigh	March 2021	

File: P:\P\Projects\TR0725\Database and GIS\GIS\Baseline Monitor\Work\km\TR0725\_ExtractionWell\_PassiveFluxMeter\_Locations.mxd List Revised: 2021.03.10 Author: TP

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

## APPENDIX H

# Supporting Calculations – Direct Aerial Deposition on Cape Fear River

## APPENDIX H

### SUPPORTING CALCULATIONS – DIRECT AERIAL DEPOSITION ON CAPE FEAR RIVER

#### INTRODUCTION AND OBJECTIVE

Nine pathways (main report Table 14) 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 H1), the HFPO-DA air loading data (micrograms per meters squared [ $\mu\text{g}/\text{m}^2$ ]) provided from ERM (2018) was used to calculate the net hourly deposition rate (nanograms per meters squared per hour [ $\text{ng}/\text{m}^2/\text{hr}$ ]) using the Equation 1 below:

#### *Equation 1: Net Hourly Deposition Rate*

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

where:

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

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

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

Depositional area along the river was calculated using available data for river width and computed river lengths where deposition contours were modeled. Eighteen (18) sections (Figure H1) provided from FEMA (2007) were selected along the Cape Fear River to measure the average river width (m). As depicted in Figures H2 through H6, sections along the Cape Fear River with HFPO-DA concentrations contours ranging from 40 to 640  $\mu\text{g}/\text{m}^2$  were selected, and the length of the Cape Fear River along each of the sections was measured. The average river width calculated in Table H2 and section lengths from Figures H2 through H6 were used to calculate section areas ( $\text{m}^2$ ) as described in Equation 2 below:

Appendix H

**Equation 2: Cape Fear River Surface Area for Each Section**

$$A_s = L_s \times W_s$$

where,

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

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

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

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

Start and end deposition rates ( $ng/m^2/hr$ ) for each section along the Cape Fear River will be estimated based on the deposition contours and corresponding net hourly deposition rate (Table H1); 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 (2020) and the calculated river cross sectional area. Section lengths will be used to calculate HFPO-DA travel time based on the river velocities in Table H3. The combined deposition rate ( $ng/m^2/hr$ ) from Table H1, section area ( $m^2$ ), and travel time (hr) will be used to calculate mass HFPO-DA deposited (ng) as follows in **Equation 3** below.

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

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

where,

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

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

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

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

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

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

As reported in the Corrective Action Plan (Geosyntec 2019), ten offsite groundwater seeps south of Old Outfall 002 (Seeps E to M) were identified on the west bank of the Cape Fear River south 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 H7). A scaling factor (Table H4) was used to estimate mass discharge of Total PFAS compounds to the Cape Fear River as shown in Equation 4. Table H5 shows the estimated mass discharges of HFPO-DA and Total PFAS compounds to the Cape Fear River.

**Equation 4: Total PFAS Mass Discharge to Cape Fear River**

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

where,

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

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

$R$  = average ratio of measured HFPO-DA to PFAS compounds across the nine offsite seeps.

**REFERENCES**

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

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

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

USGS, 2020. USGS 02105500 Cape Fear River at Wilm O Huske Lock near Tarheel, NC. Available at: [https://waterdata.usgs.gov/nwis/uv?site\\_no=02105500](https://waterdata.usgs.gov/nwis/uv?site_no=02105500)

**TABLE H1**  
**NET HOURLY HFPO-DA DEPOSITION RATE**  
**Chemours Fayetteville Works, North Carolina**

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

**Notes:**

1. HFPO-DA model values are from ERM (2018). Modeling Report: HFPO-DA Atmospheric Deposition and Screening Groundwater Effects. 27 April 2018.
2. Air deposition contours are shown in Figures H-2 through H-6.
3. Net hourly deposition rates are used in the mass discharge calculations, Table H5.

**Abbreviations:**

HFPO-DA: Hexafluoropropylene oxide dimer acid; or dimer acid.  
 $\mu\text{g}/\text{m}^2$ : micrograms per meter square.  
 ng /L: nanograms per liter.  
 $\text{ng}/\text{m}^2/\text{hr}$ : nanograms per meter square per hour.

**TABLE H2  
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	
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	

**TABLE H2**  
**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)
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	
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	
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	
590322	1931	2,060,424	373,459	100
	1932	2,060,378	373,442	
	1933	2,060,372	373,439	
	1934	2,060,311	373,416	
	1935	2,060,202	373,376	
	1936	2,060,140	373,353	
	1937	2,060,097	373,336	
<b>Average River Cross Section Width (m) =</b>				<b>99</b>

**Notes:**

\*Cross sections locations are shown in Figure J-1.

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

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

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

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

**Abbreviations:**

ft: feet

m: meter

**TABLE H3**  
**SUMMARY OF FLOW IN CAPE FEAR RIVER AT WILM O'HUSKE LOCK NR TARHEEL, NC**  
**Chemours Fayetteville Works, North Carolina**

Date	USGS Reported Average Discharge <sup>1</sup> (cfs)	USGS Reported Average Gage Height <sup>1</sup> (ft)	USGS Reported Total Precipitation <sup>1,2</sup> (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value <sup>3</sup>	Calculated Total Cross Sectional Area (ft <sup>2</sup> )	Calculated River Velocity (ft/s)
12/14/2020	4,826	3.52	0.0	136,661	323	20	2	5,675	0.9
12/15/2020	6,481	4.14	0.0	183,526	323	21	2	5,824	1.1
12/16/2020	10,198	5.37	0.0	288,761	323	22	2	6,118	1.7
<b>Average River Velocity:</b>									<b>1.2</b>

**Notes:**

- 1) Measurements are recorded from the USGS flow gauging station at the W.O. Huske Dam, ID 02105500 (USGS, 2020).
- 2) The minimum value recorded by a USGS raingage is 0.01 inches. Anything detected below this threshold is recorded as 0 inches.
- 3) Z value is an estimated factor used to compute total cross sectional area from river depth.

cfs: cubic feet per second.

ft: feet.

ft<sup>2</sup>: feet squared.

ft/s: feet per second

L/s: Liter per second.

mph: miles per hour.

USGS - United States Geological Survey.

**TABLE H4  
RATIO OF OTHER PFAS COMPOUNDS TO HFPO-DA  
Chemours Fayetteville Works, North Carolina**

Location ID	SEEP-E	SEEP-E	SEEP-F	SEEP-F	SEEP-G	SEEP-G	SEEP-H
Field Sample ID	SEEP-E-0930	Seep E-030420	SEEP-F-0923	Seep F-030420	SEEP-G-0911	Seep G-030420	SEEP-H-0905
Sample Date	10/22/2019	3/4/2020	10/22/2019	3/4/2020	10/22/2019	3/4/2020	10/22/2019
QA/QC	--	--	--	--	--	--	--
Sample Delivery Group (SDG)	320-55576-1	2091227	320-55576-1	2091227	320-55576-1	2091227	320-55576-1
Lab Sample ID	320-55576-1	1274949	320-55576-2	1274953	320-55576-3	1274957	320-55576-4
<b>Table 3+ SOP (ng/L)</b>							
Hfpo Dimer Acid	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 (Formerly PFESA-BP1)	<2	<2	<2	<2	<2	<2	<2
Hydro-PS Acid (Formerly PFESA-BP2)	90	24	9.6	10	22	11	16
R-PSDA (Formerly Byproduct 4)	220 J	53 J	92	68 J	79 J	44 J	39 J
Hydrolyzed PSDA (Formerly Byproduct 5)	2.1 J	<2	<2.9	<2	<2	<2	<2
R-PSDCA (Formerly Byproduct 6)	<2	<2	<2	<2	<2	<2	<2
NVHOS	15	6	12	8	5.4	5	4.3
EVE Acid	<2	<2	<2	<2	<2	<2	<2
Hydro-EVE Acid	7.7	2.3	2	<2	<2	<2	<2
R-EVE	76	20	60	40	39	28	21 J
PES	<2	<2	<2.3	<2	<2	<2	<2
PFECA B	<2	<2	<3	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2	<2	<2
<b>Total Table 3+ (17 Compounds) (ng/L)</b>	<b>5,900</b>	<b>4,300</b>	<b>6,600</b>	<b>5,400</b>	<b>3,400</b>	<b>3,500</b>	<b>2,600</b>
<b>Total Table 3+ (20 Compounds) (ng/L)</b>	<b>6,200</b>	<b>4,400</b>	<b>6,800</b>	<b>5,500</b>	<b>3,600</b>	<b>3,500</b>	<b>2,700</b>
<b>Ratio of Total Table 3+ (17 Compounds) to HFPO-DA</b>	<b>4.9</b>	<b>4.5</b>	<b>6.0</b>	<b>4.9</b>	<b>4.9</b>	<b>4.8</b>	<b>4.7</b>
<b>Ratio of Total Table 3+ (20 Compounds) to HFPO-DA</b>	<b>5.2</b>	<b>4.6</b>	<b>6.2</b>	<b>5.0</b>	<b>5.1</b>	<b>4.8</b>	<b>4.9</b>
<b>Average Ratio of Total Table 3+ (17 Compounds) to HFPO-DA</b>	<b>4.87</b>						
<b>Average Ratio of Total Table 3+ (20 Compounds) to HFPO-DA</b>	<b>5.03</b>						

**TABLE H4  
RATIO OF OTHER PFAS COMPOUNDS TO HFPO-DA  
Chemours Fayetteville Works, North Carolina**

Location ID	SEEP-H	SEEP-I	SEEP-I	SEEP-J	SEEP-J	SEEP-K	SEEP-K
Field Sample ID	Seep H-030420	SEEP-I-0856	Seep I-030420	SEEP-J-0843	Seep J-030420	SEEP-K-0835	Seep K-030420
Sample Date	3/4/2020	10/22/2019	3/4/2020	10/22/2019	3/4/2020	10/22/2019	3/4/2020
QA/QC	--	--	--	--	--	--	--
Sample Delivery Group (SDG)	2091227	320-55576-1	2091227	320-55576-1	2091227	320-55576-1	2091227
Lab Sample ID	1274961	320-55576-5	1274965	320-55576-6	1274969	320-55576-7	1274973
<b>Table 3+ SOP (ng/L)</b>							
Hfpo Dimer Acid	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 (Formerly PFESA-BP1)	<2	<2	<2	<2	<2	<2	<2
Hydro-PS Acid (Formerly PFESA-BP2)	9.3	12	12	37	6.9	70	16
R-PSDA (Formerly Byproduct 4)	30 J	53 J	36	110 J	23	130 J	49
Hydrolyzed PSDA (Formerly Byproduct 5)	<2	<2	<2	<2	<2	<2	<2
R-PSDCA (Formerly Byproduct 6)	<2	<2	<2	<2	<2	<2	<2
NVHOS	3.7	4.4	4.5	8.1 J	2.8	5.2	4.7
EVE Acid	<2	<2	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	2.7	<2	3.5	<2
R-EVE	20	23 J	17	16	13	46 J	25
PES	<2	<2	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2	<2	<2
<b>Total Table 3+ (17 Compounds) (ng/L)</b>	<b>2,600</b>	<b>2,600</b>	<b>2,500</b>	<b>2,400</b>	<b>1,400</b>	<b>3,000</b>	<b>2,300</b>
<b>Total Table 3+ (20 Compounds) (ng/L)</b>	<b>2,600</b>	<b>2,700</b>	<b>2,500</b>	<b>2,600</b>	<b>1,400</b>	<b>3,100</b>	<b>2,400</b>
<b>Ratio of Total Table 3+ (17 Compounds) to HFPO-DA</b>	<b>4.8</b>	<b>4.6</b>	<b>5.3</b>	<b>4.1</b>	<b>5.6</b>	<b>4.7</b>	<b>4.7</b>
<b>Ratio of Total Table 3+ (20 Compounds) to HFPO-DA</b>	<b>4.8</b>	<b>4.7</b>	<b>5.3</b>	<b>4.5</b>	<b>5.6</b>	<b>4.8</b>	<b>4.9</b>
<b>Average Ratio of Total Table 3+ (17 Compounds) to HFPO-DA</b>	<b>4.87</b>						
<b>Average Ratio of Total Table 3+ (20 Compounds) to HFPO-DA</b>	<b>5.03</b>						

**TABLE H4  
RATIO OF OTHER PFAS COMPOUNDS TO HFPO-DA  
Chemours Fayetteville Works, North Carolina**

Location ID	SEEP-L	SEEP-M
Field Sample ID	SEEP-L-0825	SEEP-M-0818
Sample Date	10/22/2019	10/22/2019
QA/QC	--	--
Sample Delivery Group (SDG)	320-55576-1	320-55576-1
Lab Sample ID	320-55576-8	320-55576-9
<b>Table 3+ SOP (ng/L)</b>		
Hfpo Dimer Acid	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 (Formerly PFESA-BP1)	<2	<2
Hydro-PS Acid (Formerly PFESA-BP2)	44	28
R-PSDA (Formerly Byproduct 4)	120 J	78 J
Hydrolyzed PSDA (Formerly Byproduct 5)	<2	<2
R-PSDCA (Formerly Byproduct 6)	<2	<2
NVHOS	5.9	5.6
EVE Acid	<2	<2
Hydro-EVE Acid	<2	<2
R-EVE	44 J	26 J
PES	<2	<2
PFECA B	<2	<2
PFECA-G	<2	<2
<b>Total Table 3+ (17 Compounds) (ng/L)</b>	<b>2,500</b>	<b>2,600</b>
<b>Total Table 3+ (20 Compounds) (ng/L)</b>	<b>2,700</b>	<b>2,700</b>
<b>Ratio of Total Table 3+ (17 Compounds) to HFPO-DA</b>	<b>4.8</b>	<b>4.6</b>
<b>Ratio of Total Table 3+ (20 Compounds) to HFPO-DA</b>	<b>5.2</b>	<b>4.7</b>
<b>Average Ratio of Total Table 3+ (17 Compounds) to HFPO-DA</b>	<b>4.87</b>	
<b>Average Ratio of Total Table 3+ (20 Compounds) to HFPO-DA</b>	<b>5.03</b>	

*Notes:*

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

J - Analyte detected. Reported value may not be accurate or precise  
ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

< - Analyte not detected above associated reporting limit.



**TABLE H5  
CALCULATION OF HFPO-DA DEPOSITED MASS AND MASS FLUX  
Chemours Fayetteville Works, North Carolina**

Section <sup>1</sup>	Start Air Loading (ug/m <sup>2</sup> )	End Air Loading (ug/m <sup>2</sup> )	Start Deposition Rate (ng/m <sup>2</sup> /hr) <sup>2</sup>	End Deposition Rate (ng/m <sup>2</sup> /hr) <sup>2</sup>	Average Deposition Rate (ng/m <sup>2</sup> /hr)	Section Distance <sup>3</sup> (m)	Average River Width (m)	River Velocity <sup>4</sup> (ft/s)	River Velocity (m/hr)	Travel Time (hrs)	Mass Deposited (mg)	Mass Discharge (mg/s)
Center	160	160	18.3	18.3	18.3	903	98.59	1.2	1327.78	0.68	1.1	0.00045
Up River Section 1	160	80	18.3	9.1	13.7	490	98.59	1.2	1327.78	0.37	0.2	0.00018
Up River Section 2	80	40	9.1	4.6	6.8	909	98.59	1.2	1327.78	0.68	0.4	0.00017
Down River Section 1	160	80	18.3	9.1	13.7	586	98.59	1.2	1327.78	0.44	0.3	0.00022
Down River Section 2	80	40	9.1	4.6	6.8	565	98.59	1.2	1327.78	0.43	0.2	0.00011
<b>Total HFPO-DA:</b>											<b>0.0011</b>	
<b>Total Table 3+ (17 Compounds):</b>											<b>0.01</b>	
<b>Total Table 3+ (20 Compounds):</b>											<b>0.01</b>	

**Notes:**

1. River cross sections are shown in Figure H1
2. Based on model deposition rate, Table H1
3. Section distances are measured in GIS as shown on Figures H2 through H6.
4. River velocity is calculated as an average from USGS discharge data between December 14 to 16, 2020, Table H2

HFPO-DA: Hexafluoropropylene oxide dimer acid; or dimer acid

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

ft/s: feet per second

hr: hours

m/hr: meters per hour

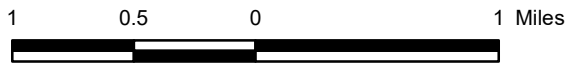
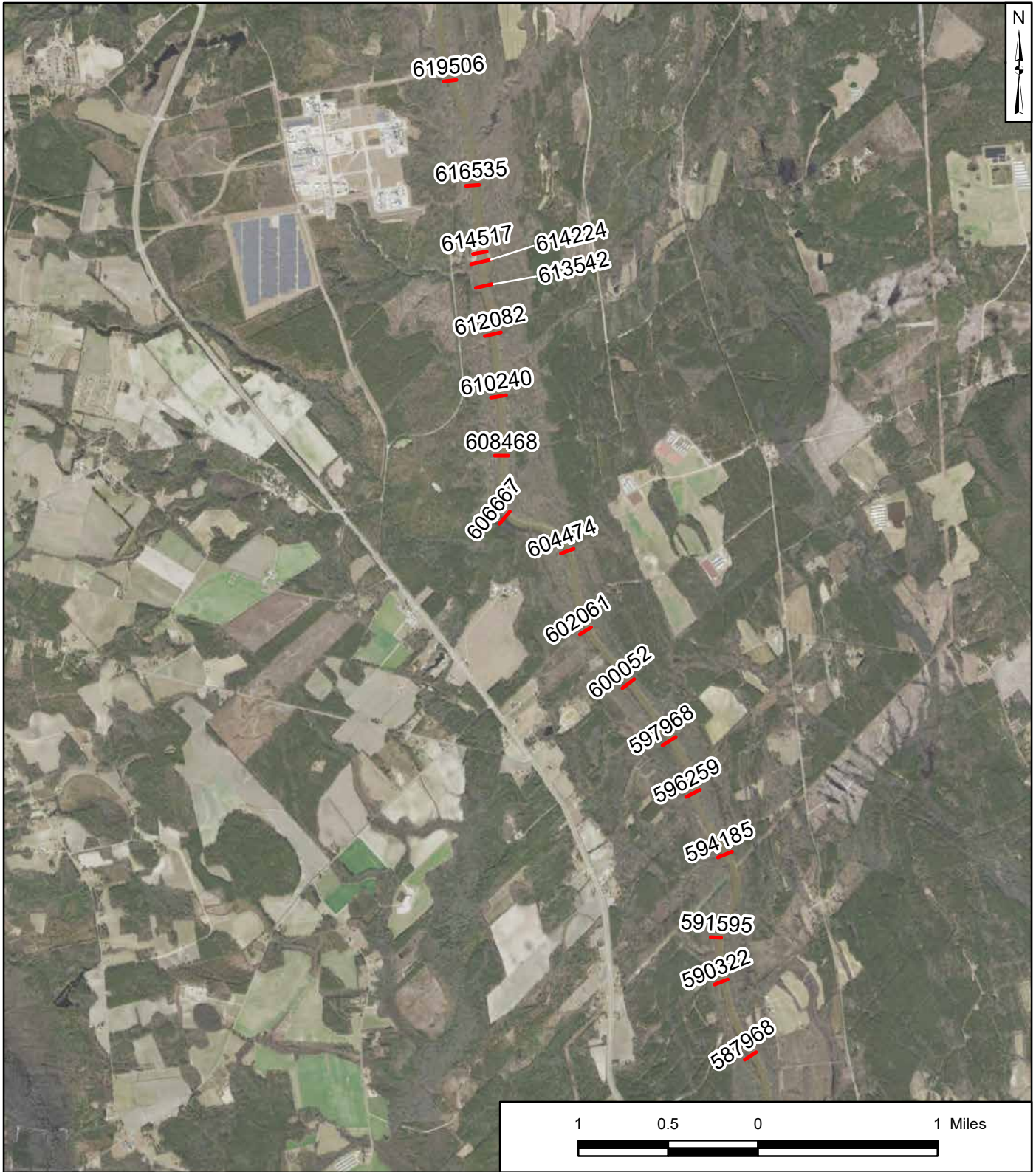
m: meter

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

mg/s: milligrams per second

mg: milligrams

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



**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.

**Cape Fear River Cross Sections Locations**

Chemours Fayetteville Works, North Carolina

**Geosyntec**  
consultants

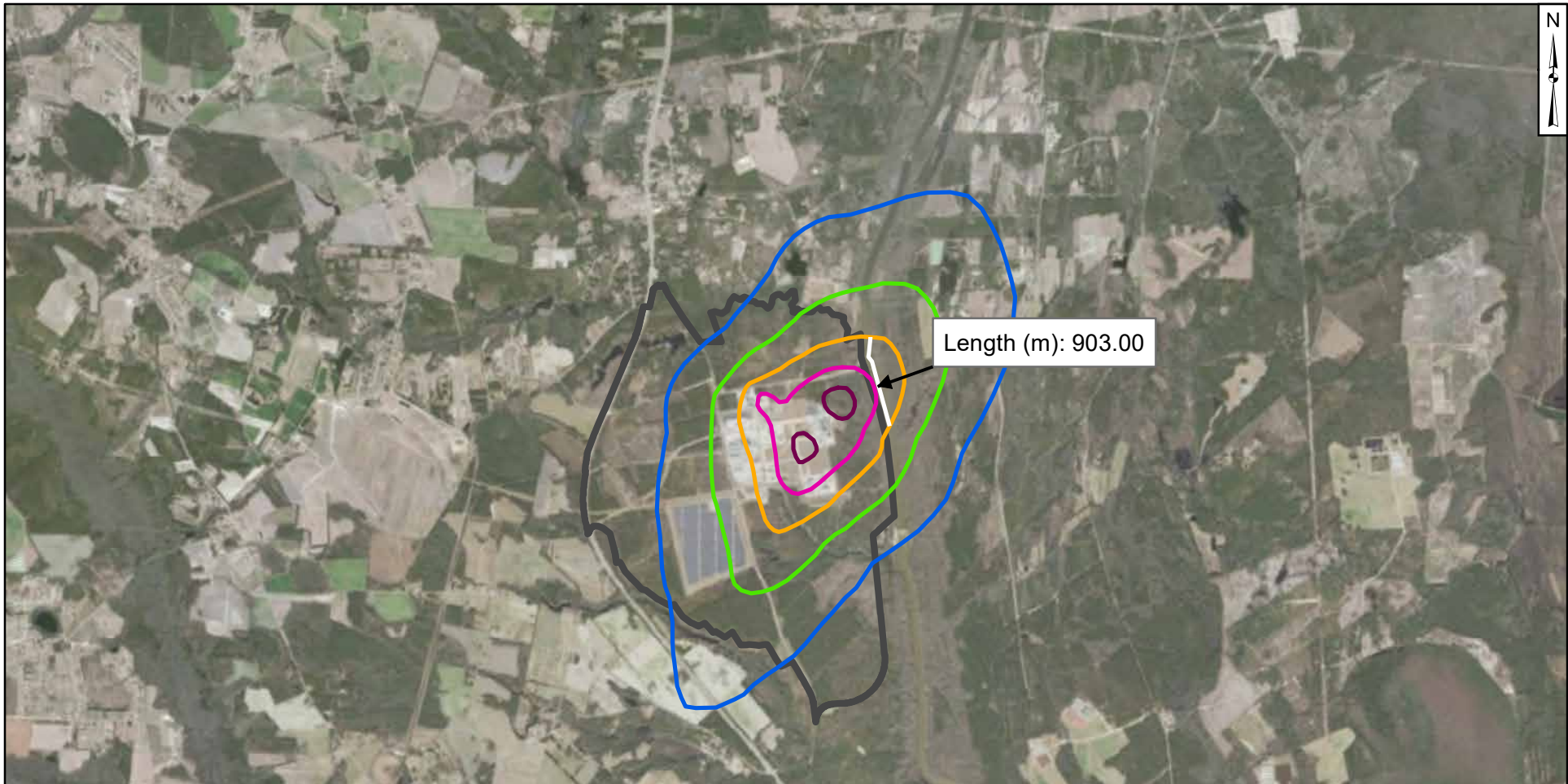
Geosyntec Consultants of NC, P.C.  
NC License No.: C 3500 and C 295

**Figure**

**H1**

Raleigh, NC

March 2021



**Legend**

— Site Boundary

Modeled Deposition Contours, October 2018 Scenario

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

**Notes:**

HFPO-DA - Hexafluoropropylene oxide dimer acid; or dimer acid; or GenX

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

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

1 0.5 0 1 Miles



**Measurement of Cape Fear River Length at Center Section**

Chemours Fayetteville Works, North Carolina

**Geosyntec**  
consultants

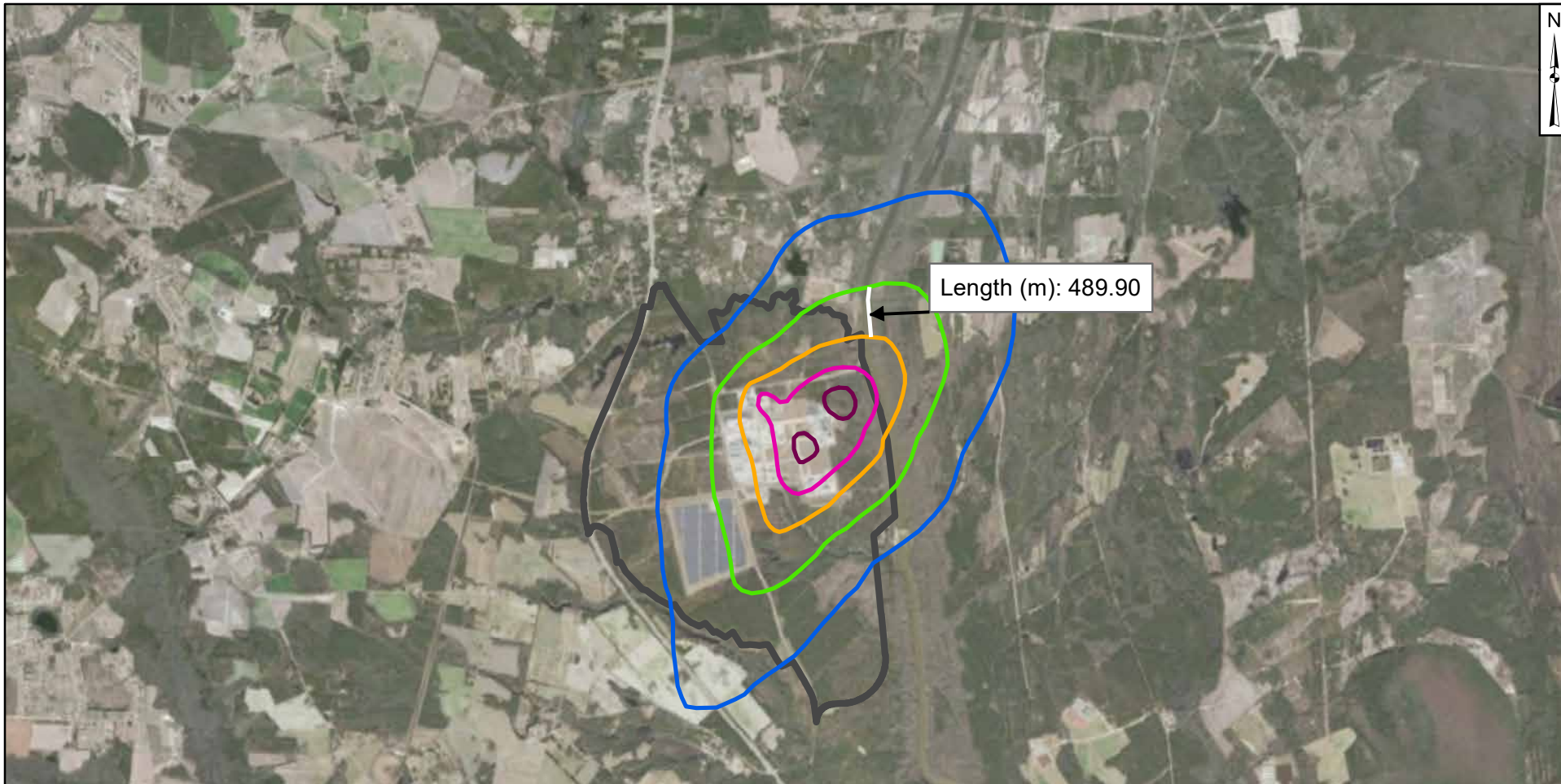
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Figure

**H2**

Raleigh, NC

March 2021



**Legend**

— Site Boundary

Modeled Deposition Contours, October 2018 Scenario

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

**Notes:**

HFPO-DA - Hexafluoropropylene oxide dimer acid; or dimer acid; or GenX

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

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

1 0.5 0 1 Miles



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

Chemours Fayetteville Works, North Carolina

**Geosyntec**  
consultants

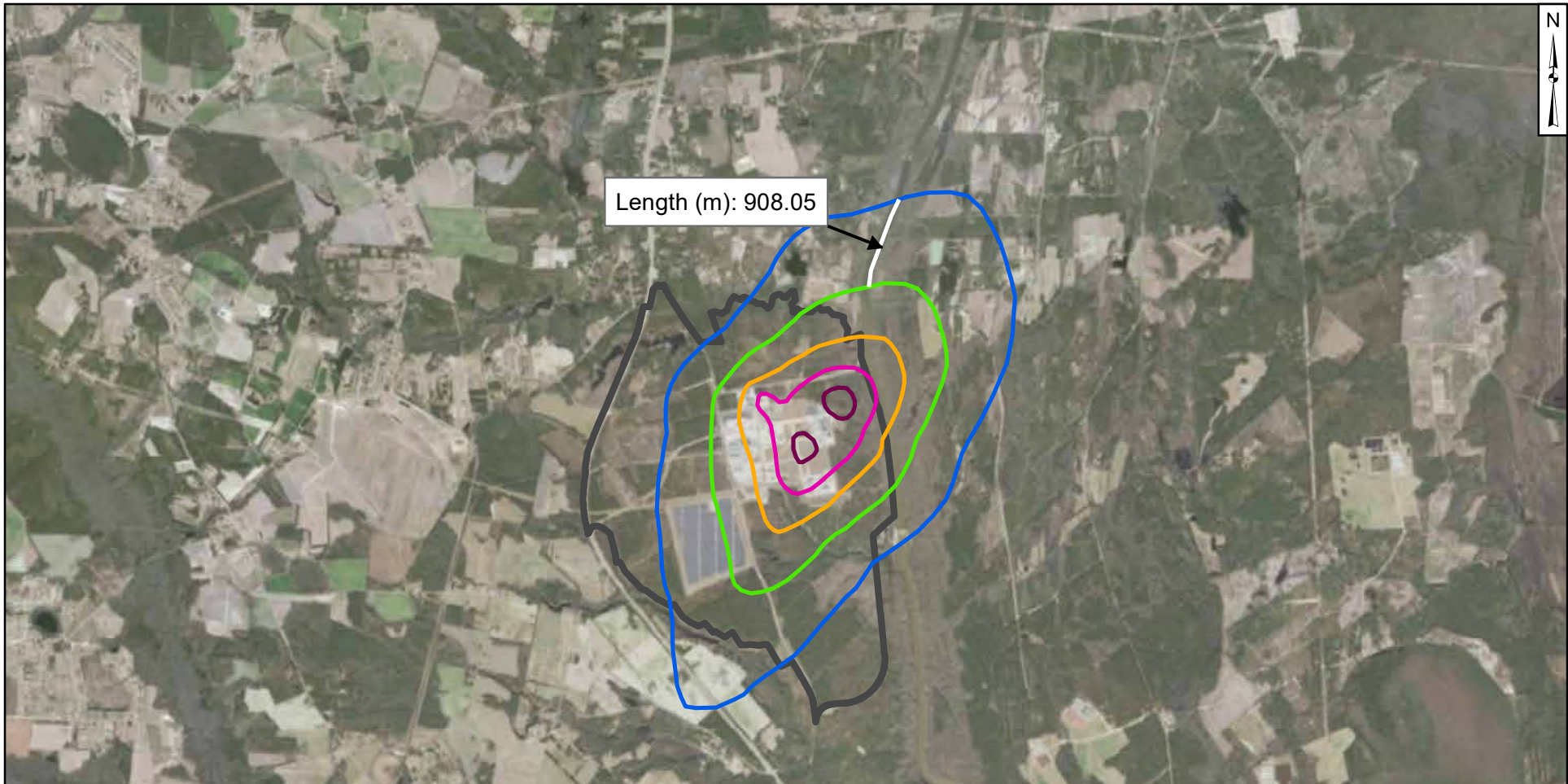
Geosyntec Consultants of NC, P.C.  
NC License No.: C 3500 and C 295

**Figure**

**H3**

Raleigh, NC

March 2021



**Legend**

— Site Boundary

Modeled Deposition Contours, October 2018 Scenario

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

**Notes:**

HFPO-DA - Hexafluoropropylene oxide dimer acid; or dimer acid; or GenX

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

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

1 0.5 0 1 Miles



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

Chemours Fayetteville Works, North Carolina

**Geosyntec**  
consultants

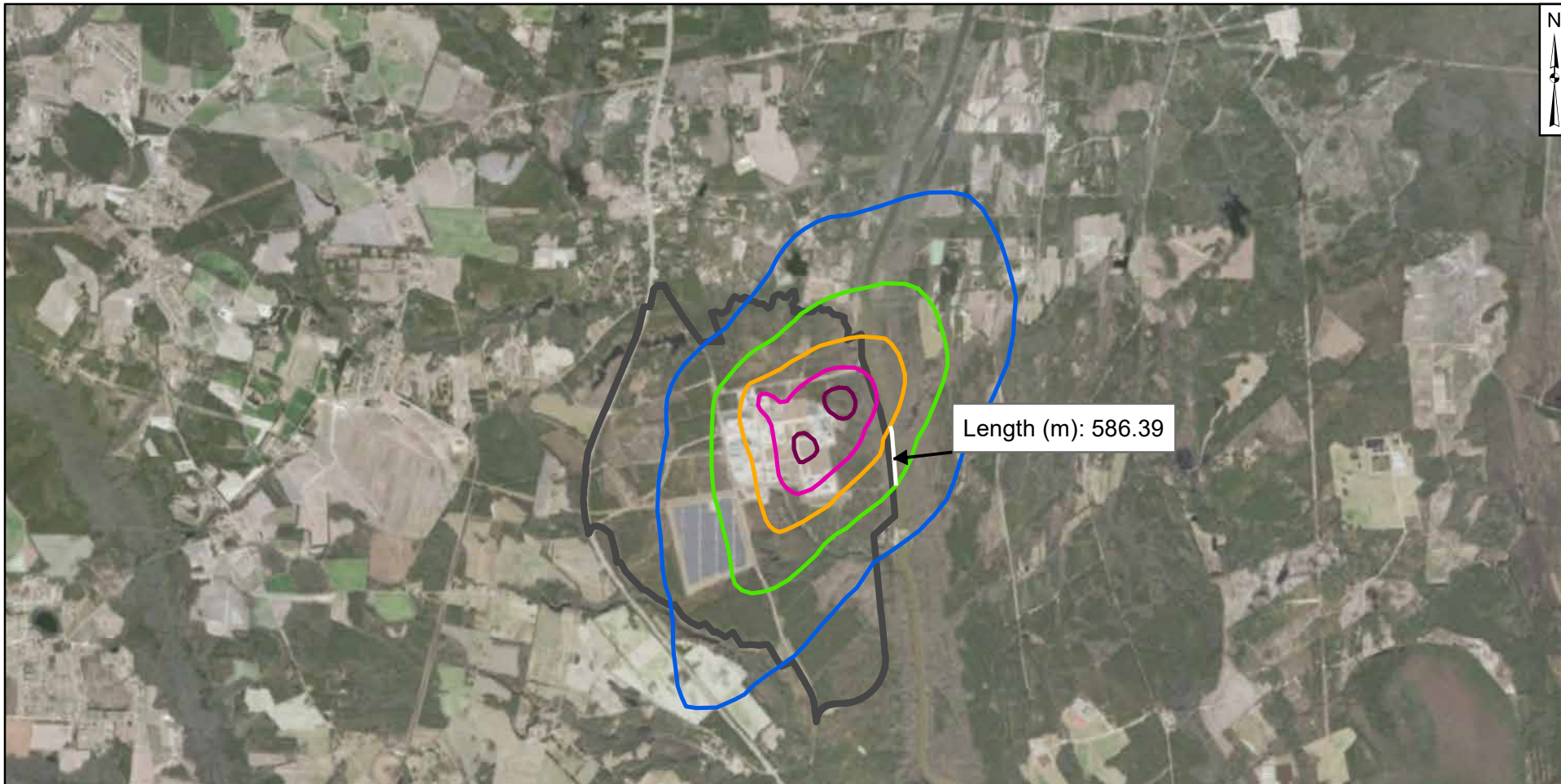
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Figure

**H4**

Raleigh, NC

March 2021



**Legend**

— Site Boundary

**Modeled Deposition Contours, October 2018 Scenario**

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

**Notes:**

HFPO-DA - Hexafluoropropylene oxide dimer acid; or dimer acid; or GenX

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

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

1 0.5 0 1 Miles



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

Chemours Fayetteville Works, North Carolina

**Geosyntec**  
consultants

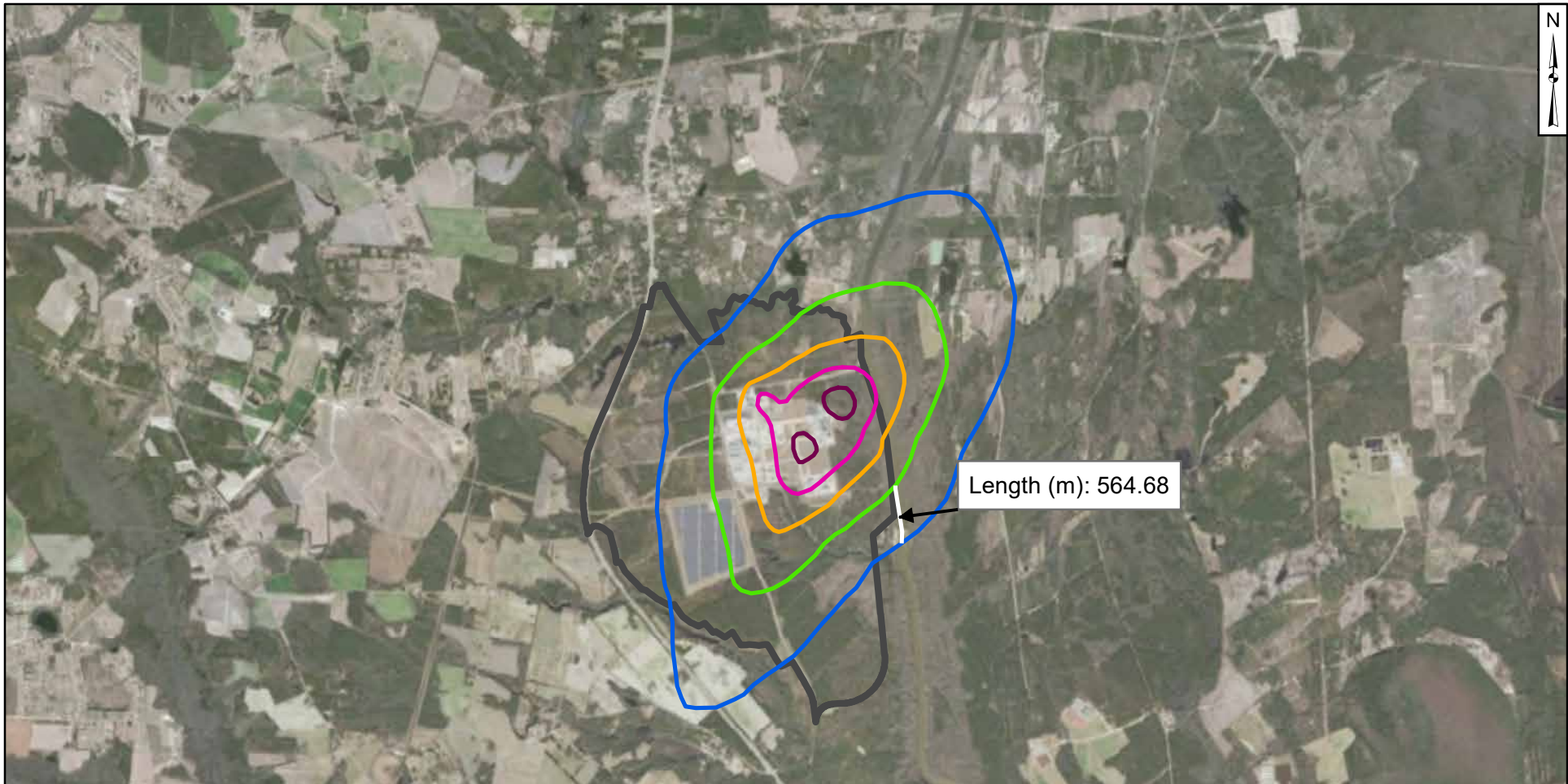
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**Figure**

**H5**

Raleigh, NC

March 2021



**Legend**

— Site Boundary

Modeled Deposition Contours, October 2018 Scenario

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

**Notes:**

HFPO-DA - Hexafluoropropylene oxide dimer acid; or dimer acid; or GenX

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

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

1 0.5 0 1 Miles



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

Chemours Fayetteville Works, North Carolina

**Geosyntec**  
consultants

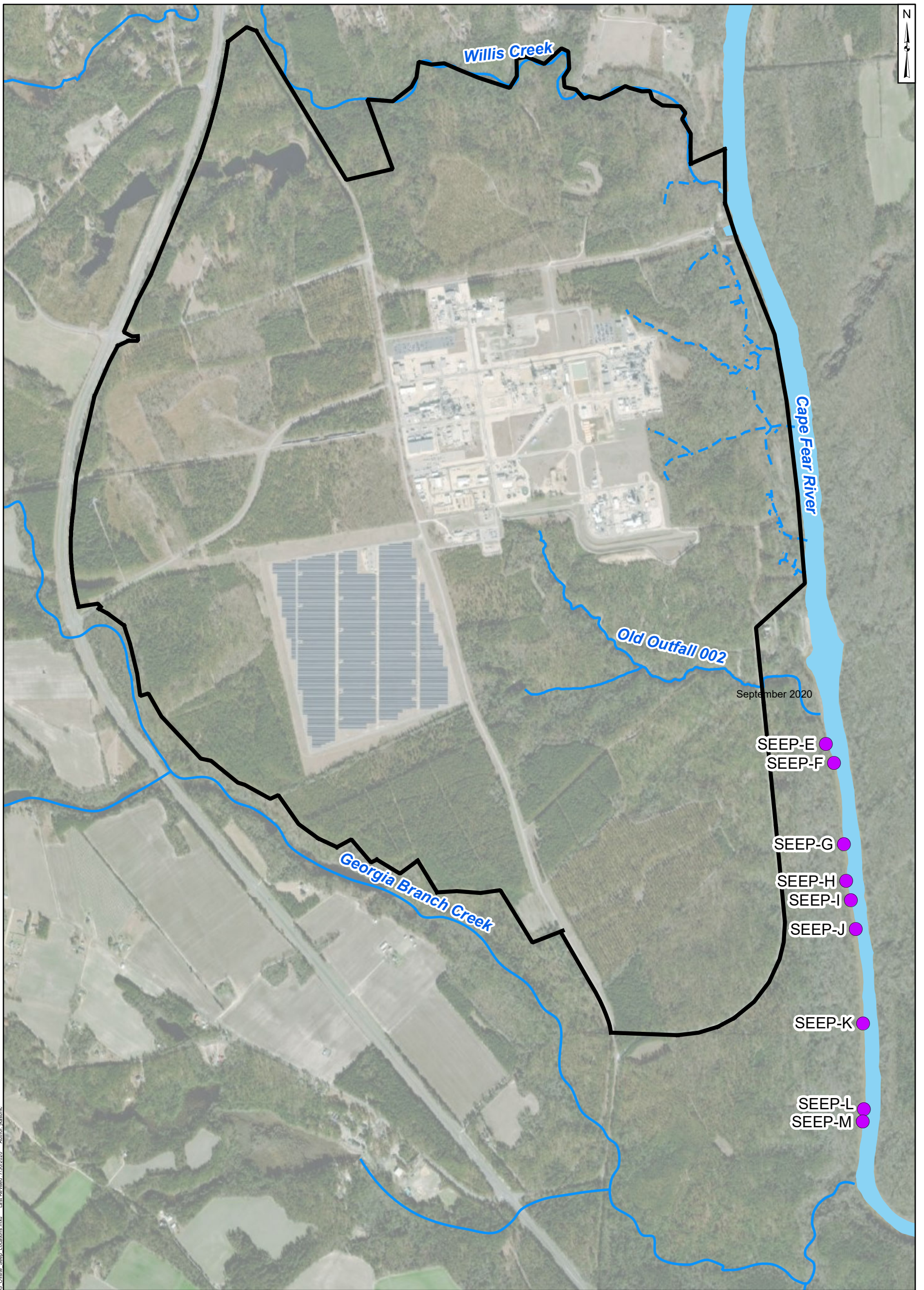
Geosyntec Consultants of NC, P.C.  
NC License No.: C 3500 and C 295

Figure

**H6**

Raleigh, NC

March 2021

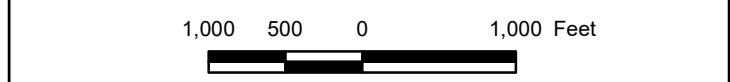


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 Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet, Units in Foot US

Legend	
<span style="color: blue; font-weight: bold;">---</span>	Observed Seep
<span style="color: blue; font-weight: bold;">—</span>	Nearby Tributary
<span style="border-bottom: 2px solid black; width: 20px; display: inline-block;"></span>	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, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



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

<b>Geosyntec</b> consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295	<b>Figure</b>  <b>H7</b>
	Raleigh	



## APPENDIX I

# Supporting Calculations –Adjacent and Downstream Offsite Groundwater

## APPENDIX I

### ADJACENT AND DOWNSTREAM OFFSITE GROUNDWATER

This appendix presents the methodology for calculating the PFAS mass discharge from adjacent and downstream offsite groundwater to the Cape Fear River. PFAS detected in offsite groundwater originate from aerial deposition which has occurred in all directions from the Site (CAP Geosyntec, 2019g). These aerially deposited PFAS have subsequently infiltrated to groundwater and migrate towards the Cape Fear River where they lead to upstream, adjacent and downstream offsite groundwater PFAS mass. The upstream offsite groundwater PFAS mass discharge is estimated relatively simply by using measured river flows and concentrations at River Mile 76 upstream of the Site. Here only the upstream offsite groundwater PFAS mass discharge is present in the river at this location. Conversely, the adjacent and downstream offsite groundwater PFAS mass discharge is difficult to measure directly since many PFAS mass discharges from all other pathways are present in the river where these offsite groundwater contributions join the river. Additionally, downstream offsite groundwater has a relatively small component of the Total PFAS mass discharge making its additional contributions to the total discharge difficult to distinguish from other discharges already present.

Therefore, since PFAS mass discharge from offsite groundwater upstream, adjacent, and downstream of the Site follow the same dynamics (deposition, infiltration, migration, discharge) the adjacent and downstream PFAS mass discharge is scaled from the upstream offsite groundwater mass discharge estimate. The downstream offsite groundwater loadings are scaled to the upstream offsite groundwater loadings based on the length of river adjacent and downstream of the Site known to be in contact with offsite groundwater containing PFAS compared to the length of the river upstream also in contact with offsite groundwater containing PFAS. The volume of river flow is assumed to be constant immediately upstream and downstream of the Site for the purposes of this calculation. This adjacent and downstream offsite mass discharge is calculated using Equation 1 below:

***Equation 1: Total Mass Discharge Adjacent and Downstream Offsite Groundwater***

$$MD_{adj-d-gw} = \sum_{i=1}^I (C_{up-gw,i} \times Q_{CFR}) \times f_{adj-d}$$

where,

$MD_{adj-d-gw}$  = represents the Total PFAS discharge from adjacent and downstream offsite groundwater to the Cape Fear River, units in mass per unit volume [ML<sup>-3</sup>], typically milligram per second;

$i$  = represents each of the PFAS constituents listed in Table II;

Appendix I

$I$  = represents total number of PFAS constituents included in the summation of Total PFAS concentrations;

$C_{up-gw,i}$  = represents the upstream concentration of each PFAS constituent  $i$  from measured units in mass per unit volume [ $ML^{-3}$ ], typically nanograms per liter;

$Q_{CFR}$  = represents the volumetric flow in the Cape Fear River as reported by the United States Geological Survey gage at the W.O. Huske Dam, station ID 02105500 with units used in the equation expressed as volume per time [ $L^3T^{-1}$ ], typically liters per second; and

$f_{adj-d}$  = represents the unitless scaling factor to adjust offsite upstream groundwater mass discharge to offsite adjacent and downstream mass discharge. Where  $f_{up-adj-d}$  is calculated following Equation 2 below:

**Equation 2: Offsite Upstream Groundwater to Adjacent and Downstream Offsite Groundwater Mass Discharge Scaling Factor**

$$f_{adj-d} = \frac{l_{CFR-adj} + 2l_{CFR-d}}{2l_{CFR-up}}$$

where,

$l_{CFR-adj}$  = represents the length of the Cape Fear River adjacent to the Site (i.e., the east bank of the Cape Fear River opposite the Site) where PFAS have been detected in offsite groundwater within one mile of the river.

$2l_{CFR-d}$  = represents the length of the Cape Fear River downstream of the Site where PFAS have been detected in offsite groundwater within one mile of the river. This quantity is multiplied by two (2) as the river has two downstream sides (east and west) from which groundwater discharge can reach the Cape Fear River (adjacent only has one side, east).

$2l_{CFR-up}$  = represents the length of the Cape Fear River upstream of the Site where PFAS have been detected in offsite groundwater within one mile of the river. This quantity is multiplied by two (2) as the river has two upstream sides (east and west) from which groundwater discharge can reach the Cape Fear River (adjacent only has one side, east).

Figure I1 displays the quantities used in calculating the scaling factor  $f_{adj-d}$  on a map of the Cape Fear River and Table I-1 provides a calculation of  $f_{adj-d}$ .

**TABLE II**  
**OFFSITE AND ADJACENT DOWNSTREAM GROUNDWATER MASS DISCHARGE SCALING FACTOR**  
**Chemours Fayetteville Works, North Carolina**

Item	Value	Unit
$l_{CFR-up}$	14.2	miles
$l_{CFR-adj}$	1.7	miles
$l_{CFR-d}$	4.5	miles
$f_{adj-d}$	0.38	--

*Calculation Notes for Offsite Upstream Groundwater to Offsite Adjacent and Downstream Groundwater Mass Discharge Scaling Factor*

$$f_{adj-d} = \frac{l_{CFR-adj} + 2l_{CFR-d}}{2l_{CFR-up}}$$

where,

$f_{adj-d}$  = represents the unitless scaling factor to adjust offsite upstream groundwater mass discharge to offsite adjacent and downstream mass discharge.

$l_{CFR-adj}$  = represents the length of the Cape Fear River adjacent to the Site (i.e. the east bank of the Cape Fear River opposite the Site) where PFAS have been detected in offsite groundwater within one mile of the river.

$2l_{CFR-d}$  = represents the length of the Cape Fear River downstream of the Site where PFAS have been detected in offsite groundwater within one mile of the river. This quantity is multiplied by two (2) as the river has two downstream sides (east and west) from which groundwater discharge can reach the Cape Fear River (adjacent only has one side, east).

$2l_{CFR-up}$  = represents the length of the Cape Fear River upstream of the Site where PFAS have been detected in offsite groundwater within one mile of the river. This quantity is multiplied by two (2) as the river has two upstream sides (east and west) from which groundwater discharge can reach the Cape Fear River (adjacent only has one side, east).

